



*Beakman's World/Castelo Rá-Tim-Bum: The Complete Second Fan Fiction Trilogy*

Witten By: Tyler "Teary Eyes" Anderson

Translated into Portuguese by: Otavio Almeida

## Introduction to the fourth story.

*{The English version, and Portuguese version were originally posted on March 14, 2018.}*

It is that time of the year, once again. When we here at the "Beakman Fans", and "Castelo Rá-Tim-Bum, Entusiastas" Facebook pages celebrate the birthday of a co-host. We celebrate her birthday with a new fan fiction story, which I wrote for her. This time we catch up with the characters from the show Beakman's World, shortly after Beakman left Captain Disillusion's place. What wacky inventions did he create, and whom were his newest guests at the studio. Which of our favorite Castelo character's will make the journey, and visit the 'Information Center', you'll have to read the story to find out. Once again two cultures will unite.

If you want to read the original Facebook postings of the stories, here are the links to the English version, and the Portuguese version that Otavio translated.

### *English version.*

Beakman's World. Episode 92. Foreign Relations, Beakmania & Fluid Motions

\* <https://www.facebook.com/BeakmanFans/photos/a.511141949064128/924357947742524>

### *Portuguese version.*

O Mundo de Beakman. Episódio 92. Relações Estrangeiras, Beakmania e Movimentos de Fluidos

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<https://www.facebook.com/CasteloRaTimBumEntusiastas/photos/a.1539576972950499/1998731960368329/>

*Beakman's World:  
Foreign Relations,  
Beakmania &  
Fluid Motions  
{Episode 92}*

By Tyler "Teary Eyes" Anderson

Translated by Otavio Almeida



This is a clip and paste image featuring the cast of the television shows "Beakman's World", and "Castelo Ra-Tim-Bum". The image and the accompanying fan fiction story were created by Tyler "Teary Eyes" Anderson, to celebrate the birthday of a co-host to our Facebook pages "Beakman Fans", and "Castelo Rá-Tim-Bum, Entusiastas". This is the fourth story in the series. This time the Castelo Ra-Tim-Bum characters visit Beakman in his 'Information Center' studio. The earlier stories introduce these characters, with the exception of Nana, which was seen in a earlier episode of Castelo named "Uma Babá Nada Boba" {The Babysitter's Not a Fool}.

You hopefully, do not need to know the earlier stories to enjoy this new story. But if you want to start at the beginning, our stories continue the adventures of television shows Beakman's World, and Castelo Ra-Tim-Bum. The first three stories have the Beakman's World characters visiting Brazil. These stories were later combined into a trilogy compilation. In this collection I also added my various images, which incorporated characters from both shows into the same image, as well as a exclusive image crated just for the collection.

English version.

Castelo Ra-Tim-Bum/Beakman's World, The Complete Fan Fiction Trilogy

\* <https://archive.org/details/CasteloRa-Tim-BumBeakmansWorldTheCompleteFanFictionTrilogy>

Portuguese version.

Castelo Ra - Tim - Bum, O Mundo de Beakman, A Trilogia Completa da Ficcao de Entusiasta

\* <https://archive.org/details/CasteloRa-tim-bumOMundoDeBeakmanATrilogiaCompletaDaFiccaoDe>

#BeakmansWorld #OMundoDeBeakman #CasteloRaTimBum FanFiction #Story4  
#Castelo20Anos #RaTimBumOCastelo #Beakman #ArtBurn #PaulZaloom #Lester #MarkRitts  
#Josie #AlannaUbach #Liza #ElizaJaneSchneider #Phoebe #SentaMosesMikan #DonAndHerb  
#BertBerdis #AlanBarzman #Nino #CassioScapin #Pedro #LucianoAmaral #Zeca #FreddyAllan  
#Biba #CinthyaRachel #ZecaNinoPedroEBiba #SergioMamberti #Telekid #MarceloTas #Nana  
#ElianaFonseca #GlubGlub #Godofredo #AlvaroPetersenJr #Mau #ClaudioChakmati  
#ForeignRelations #RelaçõesEstrangeiras #Beakmania #FluidMotions #MovimentosDeFluidos  
#MagneticSouthPole #PoloSulMagnetico #Antarctica #OuterSpace #EspacoExterior

#RollerBlades #PatinsEmLinha #SandBox #CaixaDeAreia #HotTub #BanheiraDeHidromassagem  
#MarkRober #YouTube #WaterPuppetry #TeatroAquaticoDeFantoches #WaterAnimation  
#AnimacaoDeAgua #JulieChristensen #DivineHorsemen #CaptainDisillusion #RunDMC  
#Aerosmith #WalkThisWay #YouCantDoThatOnTelevision #YCDTOTV #ILoveLucy  
#StarTrekTheNextGeneration #JornadaNasEstrelasANovaGeracao

[Fade in from black, location: South Pole.]

{A wolf howls.}

Herb: Hey Don, I've been thinking.

Don: Be careful doing that, you don't have much practice.

Herb: Ha, ha very funny. I was wondering about this pole over here. It says "South Pole", but is it the magnetic South Pole?

Don: Well there is one way to check, go over to it, and see if the remote adheres to it.

Herb: Gosh, that's intelligent, I wish I would have thought of that. I'll just waddle over there, and check.

Don: Old age must be catching up with you, I see a limp in your waddling.

Herb: Nah, that's just because I collided the footstool last night, when the night light went out. I'm glad it finally turned light out this morning after 6 months of darkness. Wow, look the

remote is sticking to the pole, that must mean this pole is the Magnetic South Pole.

Don: Either that, or the magnet which we put on the back of the remote, is sticking to the metal of the pole. {Don leans forward, and holds up a book.} This book says the magnetic pole moves around all the time, so that can't be it. Why don't we ask the nice people over there at that polar station if they know, what kind of pole this is.

Herb: Where'd that station come from?

Don: It's always been there, it's just been behind that hill, and now that the snow has melted, and it's no longer night, we can see it. Where did you think that Satellite Dish came from, which we hooked up to the television?

Herb: Satellite Dish? I thought that was a salad dish, I've been throwing Anchovies in it, to add seasoning.

Don: That explains why our signal has been so poor. Never mind going over there now, it's time for Beakman. Turn the remote over here, so we can watch Beakman.

Herb: Righty 'O Penguin Pal. {Flipper comes up, and turns the remote, which is still stuck to pole. When it is pointed at the television the flipper then pushes the button.}

{Footage of a Explosion. Beakman seen through the fog.}

Beakman: Fast Fact, no single person lives on Antarctica, but many people are allowed to visit it each year. And another Fast Fact, no one lives in outer space, but several people have spent time, out there in the dark unknown. The longest duration that anyone has ever spent in space, was a Russian Cosmonaut, whom spent 437 days in outer space, before returning to Earth.

{Opening credits to Beakman's World, are then shown.}

{Fade in: Josie pulling a bag of mail across the floor.}

Josie: That rat is getting lazier every day. He knows these letters belong in the spinning drop cage.

{Just then a loud series of alarms begin to wail. She drops the bag where it is, walks over to a fire extinguisher, and pulls it away from a door. She pulls the bar, and unlocks the knobs, and then opens the door.}

Josie: Hey, you finally made it, so glad you arrived safely. I hope your journey from Brazil was enjoyable. Beakman is hanging around here somewhere. Let me call him... Hey! Beakman, the kids are here! {Her voice echoes through the building, as if it were a cave, the guests cringe, from the loudness of her voice.}

{The guests were, 3 children, with one parent each dressed in a similar costume as their child, and a large nanny named Nana. Liza appears from the inside of the door frame, looking out at the children, at a 45 degree angle.}

Liza: Hi guys, and gals. Glad you could make it here, Beakman is busy at the moment, but we're glad you're here. Say, those are great "Lester" type rat ears you got on your hat Zeca. We're glad you dressed for the occasion, nice green laboratory coat Biba. Nice to see you again also Pedro, do you have a special Beakman themed surprise?

Maca: Those are our parents' names. I am Maca, that's short for McDonald, that's Baba short for Barbara, and that's Sancho-Esteban he is Pedro's son.

Sancho-Esteban: Pleased to meet you again Miss Liza. I also have dressed for the occasion.

{He then lifts his hat, showing a Beakman style, large upright hair style. He then lifts off the wig, with his other hand, and bows towards her with both his hands out stretched. Phoebe then appears at the door looking out of the door, on the opposite side of the door from Liza, at another 45 degree angle.}

Phoebe: Ha! That's 'a hat full of hairs', not to be confused with, 'a hat full of hares'. Beakman would love it. My hair couldn't do that it is too curly, it would just poof, and my hair would go everywhere. {She then puts both hands in front of her face, and shows her hands puffing out like hairs, from the top of her head.}

Josie: Hares, is another word for rabbits. Like in the magic trick of pulling one, or many rabbits from a hat, which is seated on a table. There would usually be a hidden hole in the hat, and the table, then the person would pull out the rabbits from under the table. Purely amateur magic, which you will find none of here. Once you enter these doors you'll find no magic, only scientific principles at work, and rigorous scientific understanding.

Nana: I heartily agree, no magic, fun, or running wild. Just strict scientific discipline. Hello, my name is Nana. I am the children's baby sitter/nanny.

Biba: Maybe we shouldn't have brought her, we could look after the children just as well, without her.

Zeca: Nonsense, we should have the chance to look around also, and besides, she's not as terrible as you imagine, or remember. She's a sweet old lady.

Pedro: That's because she always liked you better, you were the youngest. Towards the rest of us, she was diabolical, in the way she found boring stuff for us to do, instead of having fun.

Liza: Nana, is your Nanny? As I recall, when I traveled around the world learning dialects, the Portuguese word for nanny, or baby-sitter was Baba. Like your nickname Baba.



{Baba then lowers her head, and rolls her eyes feeling a bit disappointed that her name was similar in spelling, to the job of the lady that she didn't enjoy being around.}

Biba: Yes some day she may grow up and be a great baby sitter, and help teach many children, similar to how Beakman teaches science. Sadly Nino, and his Uncle Victor couldn't come with us. They were busy rearranging the old Castelo at its display at the Latin America Memorial. Dr. Victor managed to get the entire Castelo temporarily relocated so that many other people could explore its wonders. While they were decorating the new Castelo, they were also planning their visit here. Hopefully, they will arrive soon.

Beakman {from off screen}: Don't just keep them standing there, let them in.

{There is then a loud metal crash, and sliding scraping metal sound.}

Beakman in a loud amplified voice, from off screen: Here he is, the master of bewilderment, the solver of the latest conundrums, unraveler of the unbelievable... The one, the only, the Beaakkmann...

{There is then another loud metallic snapping sound. Followed by another scraping sound. As the sound continues, Beakman slides into view near the upper part of the doorway. He is hanging upside down. He is wearing a bicycle helmet with hair glued to its top, large elbow protective pads, and a electronic belt with various buttons on it. A separate scene shows a close-up view of his feet, he is wearing a pair of roller blades, with a metal frame connecting the boot, and the wheels. Through the center of both frames is a metal bar that is holding Beakman up.}

Biba: Does he usually introduce, and talk about himself like that?

Liza: Yeah, usually when we're not around to introduce him, or when he is out on one of his science tours. He's not very good at it. We do a better job, in the rhyming, and metaphors department.

Beakman: That wasn't my best entrance, but I wanted to be here to greet you in a memorable way. I had planned to descend straight down while testing these new roller blade frames, by hanging them from the crane and gently lowering myself. But that is why we have redundant safety devises.

{He then accidentally taps his belt, there are several beep, and squealing sounds. Then there is another scene of the skate frames on the metal bar, the frame is seen sliding to one side. Beakman then slides away from the door, and there is another loud snap, and a crashing sound.}

Beakman, laying on the floor, with one hand twisted behind his head, and a fake leg laying under him: Ouch! That didn't quite work out, the way I had planned it. Phoebe can you help me get these skates off of my feet? Josie can you show the children to the sand box, please. I'll be over there as soon as I've straightened myself out. {There are then sounds of bones popping, and creaking hinges, as he moves his arm, and the fake leg.}

Sancho-Esteban: The Sand Box? Is that some computer software station, with experimental software, and a creation studio? Is it a place where we can create, and test our own digital creations?

Liza: Nope, it is just a sand box, with sand in it, and a bit of a surprise. You'll see.

Josie: Yes my brave travelers, follow me, and walk this way. {She then picks up the bag of letters, and drags it along the floor again, this time bending her back, and dragging one leg behind her, in the style of a movie hunchback.}

Liza 's voice then changes to a high pitched, singing guy's voice: You heard her, it's time we "Walk this way, and talk this way." {She then imitates Josie, and walks bent over dragging one leg.}

Maca: I like the rap version of the song better, with Run DMC and Aerosmith.

{The children, their parents, and the nanny, follow Josie, and Liza. To a hot tub looking box, with sand in it. There are three soccer balls on the sand, along with some golf balls, a bowling ball, and some plastic shovels, and buckets. Liza helps the children to climb into the sand box.}

Liza: I'm sure you'll have fun in here, while your waiting for Beakman.

Baba: Not to be rude, but we are older then three years of age, and we can't do much with dry sand. {She then lifts a handful of sand, and it falls through her fingers.} If it was wet we could at least sculpt it, or make some sand castles.

Josie: Would you look at that a "Handful of Sand", Julie Christensen would love that. She was in a band called "Divine Horsemen", and the album also had a musical album called "Handful of Sand". I meet her way back in the second episode of Beakman's World. The band had broken up, and she was performing with Rita Valente, as "The Step-Sisters". Ahhh those younger days...

Sancho-Esteban: I must agree with Baba, this big lump of sand isn't of much use unless we want to bury something, or get it wet. {He then hits it with his fist, showing how little it moves, when he just presses on the sand.}

Josie: Oh, you want something more similar to water? I think we can help out with that. Can't we Liza?

Liza: Yeah, I think you'll be quite surprised with what will happen in this sand. {Liza and Josie then look at each other, and smile mischievously.}

Maca: Wait a minute! Your not going to pour water on us, or something like that, while we are in here, are you? I remember hearing there was a television show here in the USA, where they dropped water, and slime on unknowing children.

Beakman, limping a little, walks over: That was a Canadian television show called "You Can't Do That On Television". It did give us a reason not to say things like, "I don't know". For fear of being slimed. {He then carefully looks upward, to make sure no slime will fall on him.} Instead of saying... Those words. We should be asking, how we can find out what is happening.

Nana: Yes, this is the way children should play, no mess, no expensive toys. Only the essentials. With the proper discipline, and self control, children can have all the fun they like. Within limitations of course. {She then places her hand, affectionately on Beakman's shoulder.}

Beakman: Thanks for reminding me about the mess, everybody quickly put on your safety goggles.

{Josie, and Liza put on their safety goggles, and quickly step away from the sand box/hot tub. Phoebe then walks over, and gives the children each a pair of goggles.}

Maca: As if we already don't look silly enough, sitting in a sand box. Why do we have to wear safety goggles. Why, why, why?

Parents, and the other two children: Because Maca...

{The screen then turns to white, with black dots. Fade in from white, to the South Pole, with Don and Herb in front of the television.}

Herb: What happened, Don?

Don: I don't know, perhaps we lost the signal, or the satellite dish has broken down.

Herb: It sounds more like a break up, or aluminum foil being crushed, if you ask me. Maybe if

we hit the television, it will start working again.

Don: It's no use resorting to violence. Just chill out, and the picture will probably return soon.

Herb: I'm a penguin I'm always chilled, cold, frozen, and occasionally shivering uncontrollably.

Don: Shivering uncontrollably? You should have that looked at, by a doctor.

Herb: I wish we had a doctor here, maybe he could fix our television.

{Just then a new sound is heard, and two figures appear descending from the sky, wearing propeller hats.}

Dr. Victor: Nino, let me look at that map, you've been having us travel in the wrong direction. Look, we are at the South Pole.

Nino: Aye-aye, aye. It's cold here, I was expecting the nice warm beaches of California. We'd better get out of here soon, before I freeze into a icicle.

Don: Wait, before you go can you help fix our television.

Herb: Yeah, it seems to be broken. We were trying to watch our favorite show Beakman's World, and the show went blank all the sudden.

Dr. Victor: Really? We're on our way to see Beakman, when Nino got us lost.

Nino: Oh sure, blame me. You gave me the map, and I was never very good at reading maps,

just ask aunt Morgana.

Dr. Victor: Quiet now Nino, I want to help these poor fellows, and then we can depart to visit Beakman. But before we do, I want to return home, and pick up a few things.

Herb: Oh please, take us with you, we're Beakman's number one fans.

Don: We even created these for ourselves, "We're #1 Beakman Fans". These are foam hands, to prove that we are the number one fans. {They then try to move the hands, with the first finger pointed upward.}

Dr. Victor: Okay, okay, we'll see what we can do. You two are about as excitable as young Nino over there. Let me fix this television, then see what we can do.

Nino: I'm not excitable, I'm just in a hurry to visit my friend Beakman. Besides I am freezing.

Dr. Victor: In that case, go and find something to warm yourself in that polar station over there. Then see if you can find two carriers, with which we can take our new web feathered friends with us.

Nino: I always get stuck with the difficult tasks. I just want to hurry, and get out of here, and over to Beakman's Information Center studio. {He then marches off, over the hill towards the station. Kicking snow out of his way, and grumbling.}

Dr. Victor: There we go, I think I'm getting a signal.

{There is then a repeat of the earlier scene.}

Maca: Why do we have to wear safety goggles. Why, why, why?

Parents, and the other two children: Because Maca...

{The screen then fades to static screen again.}

Don: Oh wait, this time there is something else.

Herb: Hey it's Telekid, how did he get on this show?

{The scene then changes to Telekid on a digital background of blue screens, as the camera area behind him, shows a separate location of a construction site. There is then footage of people cutting wood, and metal with the debris going into a person's face.}

Telekid: "Because" is never a answer. See these people working here?

{He then pushes some buttons on his olden, cell phone, styled devise. The video footage behind him then zooms in to show the faces of people with the goggles on.}

Telekid: The wood, dirt, metal, or anything else can get into a persons eyes, if they are not wearing safety glasses.

{He then pushes a few more buttons, the then scene changes. This time, it appears as if he is under water, with a snorkel, and wearing swimming goggles. He tries talking with the snorkel in his mouth, and as he does this, captions of his words are seen.}

Telekid: These goggles also prevent water from reaching your eyes, and allow you to see clearly. {He then watches the captioned words pass by, on the screen as he finishes talking. Two fish,

with human heads then swim past, and look at him.}

Telekid: Hello Glub, and Glub, how are you today?

Male Glub: We are fine, but it seems you are having a bit of trouble in our environment.

Female Glub: Maybe you should have brought, down here, a air tank. Sometimes goggles, and a snorkel aren't the only safety equipment you'd need.

{Just then, from the side of the screen, a shark starts to swim close to them.}

Telekid: Ohh, it's time for me to go, good-bye.

{He pushes a few more buttons, and waits for the text to scroll across the screen, before pressing the last button. Then he returns to his blue screen studio area. Then he wipes off his forehead.}

Telekid: Wow, that was a near miss, I almost became shark food. Remember to always be safe and always ask the important questions. Good-bye.

{He then points the cell phone, styled devise at the camera, and pushed a few buttons. Then there is static screen again.}

Beakman then turns off the television screen: Thank You, Telekid.

Telekid then quickly appears on the television screen again and he says: Your welcome Beakman, glad I could help. {He then reaches out of the television, and turns himself off again.}



Beakman: Wow, now there is one talented guy. I wish I had my own blue screen studio like him. All I have is this lovely, 'Information Center'! {He raises his hands as he says it, and the words echo through the large studio.}

Maca: But that doesn't answer the question, why we need these goggles to sit in the sand.

Beakman: Sit in the sand, or sit on the sand? Those can be two different things.

{He then secretly pushes a button on his belt. Beakman, the parents, and his lab assistants all converge around the sand box to watch the results.}

Maca: I'm getting bored sitting here, with nothing to do.

{{Puuff} There is then a eruption of air from under him. Sancho-Esteban, and Baba then try to move away from Maca.}

Baba: If you had to do that, you could have at least been polite, and gotten out and done that in private.

Maca: I didn't do that, it wasn't me.

{There is then several more puuffs, this time near Sancho-Esteban and Baba.}

Sancho-Esteban: Wait a minute, it seems to be getting harder to move on this sand. It seems to slip out from under me.

Beakman: Harder to move, or easier to move in the sand? {He then turns a knob on his belt, and

the puuffs in the sand begin to happen faster.}

Biba: What? That makes no sense, what is happening?

Liza: Keep watching, this will be epic.

Josie: How long will it take them to figure out what is happening. That is what I am interested in. I got this stop watch to check the time, to see how long it will take for the process to fully begin.

Maca: Hey, the bowling ball is gone.

Sancho-Esteban: Look the golf ball seems to be partially sinking. What is happening?

{A few moments later the children were up to their knees in sand.}

Baba: Beakman are you adding water to the sand under us, to make it quick-sand?

Phoebe: Nope, but your close to the answer, think again. What do you see, and hear?

Sancho-Esteban: I hear a humming, and do not smell anything, the sand does not feel wet. Therefore, my guess is that, it is air being pushed up somehow, and the sand is loosening itself.

Beakman: Bada Bing, Bada Bang, Bada Boom. Give that boy a prize.

Liza: Here, this is for you. I will also give a prize to each of your friends. It is a autographed photo of Beakman. The smudges down near the bottom, are reproduction of his baby, feet and

hand prints.

{Phoebe went over, and started pushing down one the soccer balls, it bobbed up and down in the now liquid appearing sand. She then gave it a twist. The ball continued spinning until it bounced against the side of the hot tub. The children lowered themselves and turned slightly creating waves. Josie waited for it, and when it didn't come, she became restless. The children didn't understand yet, the fun that they could have. Josie couldn't wait any longer, she walked over to the side of the tub, and splashed the sand, this way and that, in big waves.}

Josie: Sand fight!

{Once every one realized that the sand was fluidized, they began to enjoy tossing it around like water. While in the tub the sand acted like water, but once it landed on them it felt like regular sand. Josie's then stopped her watch.}

Josie: It took them awhile, but they finally started enjoying themselves.

{Maca tried to grab two soccer balls, and push them under at the same time. The balls slipped out from under his arms, and he crashed back into the sand. Sancho-Esteban tried kicking the soccer ball from under the sand, getting it to bounce out of the sand, just enough to rise off the surface of the sand, before trying again. Baba tried drumming on it repeatedly, as if it were a Conga drum. Being amazed at the way it bobbed back upward after each hit.}

Liza: Let me see that for a second, would you? {She then begins hitting the ball quickly, and says,} Babalu! {She then says it slower,} Baba-lu.

{The children, seeming to be confused, look at her.}

Liza: Desi Arnaz, "I Love Lucy", isn't that classic television show broadcast in Brazil?

Maca: The song even has your name in it, Baba.

{Baba gives him a rather disapproving glance.}

Beakman: Desi Arnaz was a Cuban born actor, and he did not write the song. It was popular in Latin America, but he was not the first to...

Phoebe: We'd love to continue this lecture but... It's time for...

Beakman: That's right, it's time for... The Beakman Challenge!!!

{His voice echoes, as Josie runs over to the wall, and plugs in the illuminated sign.}

Beakman: The first part of the challenge is to see if you can push the soccer ball, all the way to the bottom of the tub, with one hand on top, and one hand underneath. But without putting your face under the sand?

Maca: That's easy, even for me, even though I'm the shortest. See? I have accomplished it easily.

Sancho-Esteban, and Biba then finish their task: Okay now what?

Beakman: Now we turn off the buoyancy of the air, and see if you can now pull the ball up, easier than you could push it down.

{He then pushes a button on his belt, and the sand immediately stops moving, locking each of the children into position.}

Beakman: Now that the buoyant force of the air has been removed, the only forces you have to work with, are your muscles, against the downward force of gravity, and the weight of the sand. Okay, Josie bring in the demonstration.

{Josie brings over a small bucket of mud, and then takes off one of her shoes, and replaces it with a large boot. She then stomps her foot into the bucket. Mud goes everywhere. On Beakman's face, on the guests, and onto the children, whom were still stuck in the sand. As the camera zooms out, it shows everyone muddy, and the back side of Lester can be seen, with him holding a bucket of mud. He then sets the bucket down, and sneakily walks away.}

Pedro: Beakman we weren't expecting this when we came here, and brought our children.

Biba: We were hoping the children would learn scientific principles, and gain knowledge about the mysterious, and marvelous world we live in. And not learn about getting stuck in mud, or sand.

Zeca: Wow this is great, it's like being at a performance of the comedian Gallagher, but without his patented sledgehammer type tool, which he uses to smash things. Unlike my son, I enjoyed this, bring on more mud, and some slime.

Phoebe: Oh, Oh! Don't encourage him, he'll have slime over every wall, and dripping from the rafters, in 5 minutes, if you let him.

Beakman: Back to the mission at hand. You could try to pull straight up, and lift the sand, mud, and ball, or boot. But there is a easier way. It takes a bit longer, but just rock your hands, feet, or boot, back and forth slowly. Lift as you move, and use the back side of the ball, and the back of your arms as levers, and slowly pry yourself upward. If you try this in mud, move your foot backward, and then try push the mud in front of your toes under your foot. The back part of your foot, and leg can be the lever, and you should eventually have enough mud, or sand, below you that you can now lift yourselves out of the sand, or mud.

{Josie demonstrates by moving her foot back and forth, and then eventually freeing her boot from the mud. She then takes off the boot, and puts on her shoe.}

Beakman: But just remember, if you get stuck in mud, or some other liquid, don't try to pull up quickly, or it will simply create a vacuum of low pressure under you, and you'll be pushed back down where you started.

{Beakman then demonstrates by putting his hand into the boot, and plunging it back into the mud. Mud splatters everywhere, and on everybody again. Lester's back side can be seen again, as he puts down another empty bucket of mud, and runs away. Beakman then uses both hands to try and pull the boot out, with quick tugs straight up.}

Beakman: See? It is almost impossible to overcome all three forces gravity, the weight/mass of the mud, and the vacuum, that a liquid requires to get yourself free. Your task is not nearly as difficult, can you do it. Can you beat "The Beakman Challenge!!!?"

{As the words echo, Phoebe this time, runs to plug in the sign. The kids then manage to get the balls, and their hands, free from the sand. They then wiggle their feet to get them out of the sand, then they walk across the sand, and out of the hot tube.}

Liza seated on a hand operated, miniature sand digger, with wheels: Come on Phoebe, help me begin using this contraption, and let us go looking for that bowling ball, and those golf balls.

{Phoebe then rushes over, and pushes Liza and the digger to the side of the sand box. Then Liza begins scooping holes, and dumping them into a corner of the sand box.}

Josie: I've got a faster way.

{She then turns on an air compressor near the hot tube, and the sand begins to move again. She

reaches inside, and pulls out the bowling ball.}

Liza: Ohh, you spoiled our fun.

{Josie then picks up the mail bag, and dumps it into the tub. She then uses her hand to mix it all around.}

Josie: Next we're going to need the sign, and the roving spot lights.

Liza: I'll get them. I haven't had a chance to do this, since Beakman got back from Captain Disillusion's home, then Ellie got to do the introduction. It must be enjoyable to be on YouTube, and have thousands of people watch your videos every day. Maybe we should make our own science YouTube channel. But of course if it is on the internet, everyone would be expecting to see kittens, and cute animals on the show. Perhaps not.

{Josie and Phoebe, gather the parents, the nanny, and the children, then they all sit on the edge of the hot tub. The lights then begin to darken.}

Biba: Is this normal?

Josie: Don't worry, we're professionals.

Phoebe: Yeah, we clean up these type of messes everyday.

{Biba, and Pedro, look worriedly at each other.}

{A few moments later Liza is seen roller skating across the laboratory, pulling the "Beakmania" sign behind her. She then drops the rope, with which she was pulling the sign. Then she skates

in front of the camera.}

Liza: Rattled by the Roller Derby, pounded by the pavement. You can't keep a good scientist down. {She then drops down, and pops back up from under the camera, but this time without her skates on.}

Liza: It's time to get the wax out, and sock slide, into your think tank. Here he is, the smart fellow, of the sweet, and mellow. The Spartan of the spitters. The Elon Musk, of the knowledge, twilight, dawn, and at dusk. The one, the only, the Beakman.

Beakman: You dig them up, and I'll mow them down. Let's Gopher Gallop.

{Beakman imitates digging with both hands, while galloping with his legs, like a horse. Then the adults, and kids are seen stirring the sand box/pool of letters. Josie then reaches in, and pulls out a envelope, wipes off the sand, bites a corner of the envelope, and rips the side of the envelope with one hand. She then opens the envelope, and reads the question.}

Josie: Question, What type of man-made things are in outer space?

Beakman: There are satellites, probes, rovers, moon landers, spacecraft, telescopes, and a automobile. But by far, the most common man-made objects in space are Space Junk, bits of other objects that have broken off, and are now circling the Earth. Plus, lots of middle sized things like, a Starman mannequin, and even a penny, to name only a few things that are out there, in the great beyond. Fast Fact: When satellites orbiting Mars, look down on the planet they see the Spirit of Opportunity. Or in other words, the NASA rovers 'Spirit' and 'Opportunity'!

Liza: Here's a sad question Beakman, will there ever be a cure for Cancer?

Beakman: Well, cancer is a series of diseases, that have various causes. But there is hope that many of the causes can be eliminated, and that treatments can remove the tumors. Most cancer is caused by cells that are somehow changed in a person's body. The new cells do not



work well with the other parts of the body, and then if they begin reproducing themselves, the cells can either be moved throughout the body, or clump together in one place, and cause a tumor. But because there are many different causes, and sometimes it is just dependant on the result of genetic variation. We will probably never fully be able to prevent people from getting cancer, but we will hopefully be able to treat, and help prevent further damage once a cancer has been discovered.

Phoebe: We have a question here, that says: 'I hear that lots of people have a Bluetooth attached to various things. What does this mean?'

Beakman: Bluetooth is a type of wireless technology, for things like phones, and computers, which transfers data over short distances by radio waves. {There is then shown a animation of radio waves being sent from one devise to another.} Or, Blue tooth, or blue teeth, can be the coloring of someone's teeth, by having them come into contact with something of that color, such as this. {The camera then shows Beakman with a blue popsicle, and he smiles to show that his teeth are blue.}

Pedro: Okay, what about this question? Who invented the game of soccer?

Beakman: Oh goody, I love a bit of the old football, or soccer play, as we call it here in the USA. According to the "International Federation of Association Football" also called FIFA. The first historical records we have of a game similar to soccer were from China about 2200 years ago. However many countries around the world also created similar games independently. The first official game to be played between two countries was played between the England and Scotland teams in 1872. As the games began to be played by more people, the rules eventually became standardized, at first locally, and later internationally.

Biba: What is the oldest song known?

Beakman: The oldest known, nearly complete song, with musical notations on it, is a clay tablet, with cuneiform writing on it. It was a part of a collection of tablets known as the "Hurrian Hymns" or songs. The most complete is a hymn with the number h6. It is held at the National Museum of Damascus, in Syria, and it dates back to about 3400 years ago.

Zeca: If two trains crashed into each other, while pulling train cars. How big of a wreck would it cause?

Biba: That's not a very scientific question.

Beakman: No question is a bad question. In fact there is one such event that happened more than 100 years ago. Back in 1896, a man named William George Crush, arranged for two trains to collide, as a publicity stunt. The trains themselves didn't leave the tracks, many of the railroad cars stayed on the tracks. However the trains at that time were powered by coal, which heated a boiler, and when the two trains collided the boilers exploded, and many people were hurt, and some people even died. Some sources say that the debris was thrown as much as 274 meters. Sadly people still continued to smash trains together, but now its mostly done for movies. Now there are better safety procedures that can be done, before trying such a event. Okay, that's great, who's next? Throw them at me.

{Maca then throws a envelope at him.}

Maca: Oh, you wanted us to toss you a question. What is the deepest place on Earth, and has anyone reached there?

Beakman: The deepest part of Earth is the "Challenger Deep", a place about half way between Japan, and Australia. It was first visited by Jacques Piccard, and Don Walsh in 1960, it was later reached again in 2012 by James Cameron, yes the famous movie director. It is about 10916 meters in depth, however humans have made holes that are even deeper. The deepest anyone has ever drilled is 12262 meters in Russia. However it was too hot for anyone to descend into the hole.

Liza: Captain Piccard to the bridge, please. {She then salutes Beakman.}

Phoebe: Lieutenant Commander Data, please plot a course to the Neutral Zone.

Josie: Dr. Crusher, your needed in sickbay {medical room}.

Beakman: Enough with the 'Star Trek, The Next Generation' references. More questions, please.

Baba: While we are talking about outer space, what is the most distant thing people have ever seen?

Beakman: On Earth most of the things we see, are seen up until the horizon. From there onward things seem to appear, or disappear above, or below it. But once we get into space things change slightly. We don't just see things as they are now, but we are looking into the past, because light has taken a while to reach us. The farthest thing we've observed in the universe, is a galaxy called Gigaligabobalafim, or 'Marty' for a nickname. Okay I'm just kidding, it is really named GN-z11, and the light from it was emitted about 13.4 billion years ago. However we have also detected the Cosmic Microwave Background {CMB}, it is radiation which was created only about 380,000 years after the Big Bang. It is a glow of heat from the early universe, after it cooled down light was able to travel freely. The universe at the time of the CMB was too dense to let light pass through it, therefore no light from stars that existed before this time, would be able to reach us. However there is still lots of room, and time, between the CMB, and the time that GN-z11 shown its light. We will probably find even older galaxies, and we will learn more about the CMB, and possible some day even look beyond the glow, to see how the universe was near its beginning, about 13.8 billion years ago. Come on, come on, we are running out of time. Ask me some more questions. {He then looks at his watch.}

Sancho-Esteban: What is the smallest thing we've ever seen?

Beakman: Wow, such big questions, and large thoughts. Okay lets see, how best can I describe this. All objects we see, are made of atoms, which can be thought of as very small balls of various sizes. Their outside has electrons, from which we get electricity. At its very center is the nucleus, or its core. The core is made of two things a proton, and the neutron. These are made of various types of quarks. There are also other things such as Leptons, and Bosons. The Higgs boson is one of the newest subatomic particle that we've found. Fast Fact: Gravitational waves which were recently detected, are the stretching of spacetime, by a distance less then the length of a hydrogen atom. They are created by things with a lot of mass, when their movement

is being disrupted by something, such as when it is spinning, and it has an irregular shape, or when its motion is being changed by some outside object. Okay one last question.

Nana: What are you doing tonight, Mr. Scientist?

Beakman swallows and looks away: I'll be washing my hair. {He then straightens his hair by sliding his fingernails upward, through his hair.}

Nana: Do you need any help with that. {She then tries to rub his shoulder.}

Josie: Moving onward... We got another question here, it says "Dear Beakman, I like to draw, animate, and puppeteer objects. Is there any way to do these things on water? Signed, P. Zaloom.

Beakman: Ah yes, good old Water Puppetry, a great example of this is seen in a Vietnam puppetry tradition that dates back almost 900 years. The puppeteer has a long stick, or pole, which the puppet is attached. They are usually behind a screen, and sometimes they are even in the water with the puppets. Here we will give a quick demonstration. Start it up, again for me Josie, would you please?

Josie: Starting it up. {The sand begins moving again, with the air pushes around the sand.}

Beakman: You can make your own puppets, or you can simply find things that can move, or objects that represent something you want to talk about. Here are a few inflatable floating trees, and a Beakman doll, lovingly crafted, by yours truly. Under his feet are two wires made from coat hooks. I've tied them together. One simply moves the character about, and the other I put two bends in it, so when I push forward, the arms of the doll will rise. Now Ray, please bring in the curtain, if you will. A good tub is not complete without a curtain.

{A curtain then slides into view, partially covering the hot tub.}

Beakman: You see I am on this side, the puppet goes under the surface, and appears on the other side of the curtain. It does not look like anything is attached to the puppet, because his feet are resting on the sand. But what the viewer doesn't see is the wires going behind the screen. Here we only have two, but with more wires, the puppet could do more activities, like move each leg individually, raise each arm, and other things. But this will work for our demonstration. We put the inflatable trees here, and there. Now it looks like Beakman is walking through the forest, when all a sudden, he looks down. {The puppet tilts forward.} And Beakman, I mean me, then discovers that I just stepped into a pool of quick sand. {The doll starts to sink below the sand.} I cry out for help. 'Help!' {As he yells the puppet's arms rise, and then drop back down. He then hands the puppet to Josie.}

Beakman: I'm stuck in the quick sand! What will I do? I try splashing around. But I don't seem to get anywhere. But then I remember that I can only sink to a certain position, because I'm full of air.

{Beakman uses his hands, while pointing at the puppet, to splash the sand around like water. Josie then returns the puppet to Beakman.}

Liza: Yeah, he's full of hot air at times. {She then makes a farting sound with her lips.}

Beakman: As long as I don't try moving too quickly, like the boots in the mud. I can slowly move my way to the side, and get out. {He then moves the puppet across the sand, and to the edge of the tub. {The puppet then leans forward, and raises his hands, as if bowing for the audience.}}

Sancho-Esteban: Wow, that was great. It is just like the puppet shows in the Castelo's Fireplace Room, when the puppets are performing in the fireplace stage.

Patsy the Rat Puppet, from inside a case on a shelf: Fireplace... Puppets, noooo.. It doesn't sound safe out there. Quick someone bring me a extinguisher.

Baba: Thank you Beakman, that was a great show, and I can think of several things I could do with puppets like that.

Maca: Yeah that was a great show. I liked how you were struggling for your life, and managed to crawl to safety. The bobbing from side to side, as you moved through the sand, really made the puppet seem to come to life.

Josie: Do you want to know a secret? Beakman, when he gets really bored, he will take off his laboratory coat, and play with puppets. He goes out at nights, and performs magic puppetry shows, there he is known as "The Great Zaloom". But shhh... You didn't hear that from me.

Beakman: Thank you, thank you. Has everyone received their autographs? Additional photographs are available at the entrance. And now, onward to another type of water puppetry. Sadly, I can not teach you this type, but my lovable friend Art, can continue discussing the subject.

{Image of a old train trailer, with a sign saying "Art's Diner", is then shown.}

Announcer: Here he is, putting the heart burn, in the art world. The always appetizing, Art Burn.

Art Burn: Hello, and a big welcome to you, from my kitchen art class. From yours truly, Art Burn. Welcome to my humble commode. Today I'm going to teach you how to draw, and animate drawings, on water. But before we do, your going to need a few supplies. Get your pencils, and write down this information for later use.

Waitress Josie: Alright, first of all, no placing gum under the table, keep your elbows off the table, and most importantly, no talking with your mouths full. Now that we got the important stuff out of the way, I'll tell you what supplies you'll need. First you'll need a thin plastic, or glass bowl.

Waitress Liza tapping the bottom of a glass pan: I got one right here. Remember to wash it

before using it, you don't know what kind of mess Art left in it, while he was cooking,.

Art Burn: I heard that. Now, just continue telling them about today's special.

Waitress Josie: Then your going to need some dry erase markers. The kind you can easily wipe away on white boards. And magnetic, silicone based putty.

Waitress Phoebe ringing a service bell: Markers, and putty, ready for pick up.

Beakman: Just remember that what you are about to see, should be done only with adult supervision, and whether your working with glass, or plastic, it is still possible to get cut. Okay Art, back to you.

Art Burn: Great, now here's what you got to do. Draw anything you want on the bottom of your bowl. Here is a self portrait of myself, do you like the hat? I think I'll make it more realistic, and add a few food stains to the hat. There, only a face my mother could love.

Voice from off screen: That's my boy!

Art Burn: Awhh, thanks mom. Notice how I made my mouth extra wide, and open. Now we slowly add water, and if we are careful, the ink will float on the surface of the water. Because of the oils in the marker. Remember oils, and water don't mix. Except at washing up time, which of course is never around here, if you know what I mean. Now once the image is on the water, we can move it around, by tipping the bowl to the side. Watch how my face squishes and bends. Almost like when I smell my old socks. But all this movement isn't getting us very controllable animation, for that we need a very small, pin head, sized amount, of magnetic putty placed on the ink. Here, I will deposit it on the lovable chin, of my drawing. They should stick together, and if we place our magnet below the bowl, we can now make my lower jaw move. 'Would you look at this? I've been animated. Hello out there in TV land'.

{He then moved the jaw of the drawing, in synchronize with his words.}

Art Burn: The best part is that if you want to keep your drawing, you can place anything you like onto the water, and it will stick to the object. You can use a piece of paper, a cloth, or even on your arm.

{A hairy arm then appears in front of the camera, with drawings of two masked faces, a sad, and happy face.}

Art Burn: Hey! Get that Rat out of here, I run a tidy ship here. No live rodents in my kitchen. Okay, maybe some flies, a bit of mold, and the occasional cockroach. And now that this order has been served up... Hey you, get out of my kitchen!

Beakman: Ahh yes, animating can be a joy, and sometimes a chore, just ask our lead artist, and animator Wayne White. But remember the more magnets, or the more poles, or wires you use. The more movement your puppet can perform.

{There is then a loud beeping sound, everyone looks around to see where it is coming from. Then they notice it is coming from Beakman's watch. A voice is then heard coming from it.}

Wrist watch: It's time, it's time. Here he comes, Dr. Victor, and Nino are finally arriving. However it is also, almost time to say good bye to the television audience.

Beakman, pointing at his watch: This is a little something I created after I returned home from Brazil, a memento of my time there. Now I better get our skylight open, before they crash into it.

{The room becomes brighter for a few minutes while Dr. Victor and Nino descend through the roof, holding some animal carriers. They land in the center of the room, with their propeller powered caps still spinning.}



Beakman: Dr. Victor, Nino, welcome to my... Information Center! {The words echo around the room, as if it were a cave.}

Dr. Victor: Thank you, we would have been here earlier if Nino hadn't been holding the map.

Nino: Oh sure, I always get the blame. I have to carry most of the things, and I have to pack our bags, and the carriers. I never get to enjoy anything, even when I'm on my vacation. Oh, hello Beakman, glad to see you again. Wow, your room is about as messy as mine. But I don't have this much stuff.

Beakman: Hi Nino, welcome to my... Home. Did you bring any of your inventions, or toys with you?

Nino: No, I did not get to bring anything else, only my personal cell phone. However it got lost along the way. It fell into the ocean, but it wasn't my fault. It was...

{Dr. Victor interrupts Nino.}

Dr. Victor: Beakman... I wanted to apologize for my invention accidentally trapping you in that small tube. If I knew it was that dangerous, I wouldn't have left it laying around.

Beakman: Don't worry about it, no harm was done, and besides, without it I may have never gotten to meet Captain Disillusion, and had my first real vacation in many years. It's just sad that you couldn't have brought along the entire family.

Dr. Victor: Oh, we are not alone, we brought some friends. Say hello everyone.

{Dr. Victor and Nino then set the three carriers on the table. Victor then opens them.}

Don: Wow, it's really you! Beakman in the flesh! Wow! Pleased to meet you, at last. We were watching you on a cell phone, on the way here, but sadly when I tried to show a closer view to Herb, in his carrier. I dropped it out of my carrier, while we were in the air, and it disappeared somewhere into the ocean.

Herb: Wow it is truly a honor to meet you, we've watched your shows for years! However, I must say you look smaller in real life. I'm used to your head being as big as me, but that's just because of the TV screen, I guess.

Gato: What an interesting place you have here Beakman. I see lots of books, and scientific instruments, many of them I've never heard about, or read. It is great to see you again. I hope you are doing well, and you enjoyed your visit with us, last time you were in Brazil.

Beakman: Thank you, you're too kind. It is wonderful to see everyone, and meet my newest, number one fans.

Herb: Did you hear that Don? He called us his number one fans! I feel so proud.

Don: Yes Herb, this is possibly the greatest day of my life! Nothing could make it better!

{From inside Nino's backpack there is a rumbling, and then a voice is heard.}

Godofredo: Did I hear someone mention that they were the number one fans of Beakman? That can't be true. Because we are.

Liza: Oh no, it couldn't possibly be.

{But, just then Dr. Victor's backpack begins moving, and there is a loud guitar type wailing sound coming from it. Mau then comes out.}

Mau: Hahahaha.. That's right, we are Beakman's number one fans. We've watched every episode, and read every comic strip he ever wrote.

Nana: Oh no, not those two... things again. Excuse me, I think it is time for me to leave... Good-bye. {She then runs away, towards the door.}

Biba: Hey! She has the keys to our rental car. Quick everybody run after her. Come along children, and don't worry. We will be right back.

Don: We've also watched every episode. But the only newspapers we usually get are wrapped with fish. We usually use the newspapers to clean up, at the South Pole. However we have written to him every day, with hundreds of questions, and fan letters.

Godofredo: We also have written him questions, and fan letters every day. Isn't that right Mau?

Herb: Wait a minute, all those letters, and questions. Why is it that you haven't answered any of our letters Beakman? That's what I want to know.

Don, Godofredo, and Mau: Yeah Beakman, how come you haven't written in reply.

Beakman: Well... You see that we get so many letters here, we just can't answer all of them, and many questions are asked by different people. And... Ummm... Well, here look at just this one bag of messages we have.

{Beakman then takes them over to the hot tub, with the letters still sticking up out of it.}

Dr. Victor: Wow, you've built your own Fluidizer, I'm impressed. How did you do it?

Beakman: Here, I have some photographs which explain how I did it. You can see, I just took some pipes, put holes along one side, then put more holes about 120 degrees down the other side, and angled them so that they were pointing downward. To keep the sand from falling into them of course.

Dr. Victor: Yes, of course. I understand. You will not be upset if I take some notes?

Beakman: I'd be delighted, I'll also give you a copy of my construction plans, and photographs of the installation. Here is a early model I made with a plastic bin, and some plastic pipe. See how I fit all the pipes together, and then use a air compressor to pump some air through them. This is just one of my minor inventions.

{Beakman then blows on his hand as if he is drying his fingernails. As if every invention is just as easy for him to build.}

Dr. Victor: It is very impressive I wouldn't have thought of creating such a thing. It is really a great achievement.

Beakman: I was doing research when I stumbled on a video by Mark Rober. He created a hot tub version, very similar to this. I had to make a few changes though. Do you see them? I added the label "Beak-Tub-O-Sand", and a few other things. My friend Art Burn was also watching the YouTube{s} with me, when he discovered a video about drawing on water by "The Action Lab", and he had the urge to try the experiment himself. We then 'talked' the show's producer into making a entire episode about moving objects. But for now, we're just about out of time.

Nino: I don't understand how this sand is moving.

{He then steps inside the tub, and begins sliding his hand back, and forth across the surface of the sand. He then slips on one of the golf balls at the bottom of the tube, and falls in.}

Josie: Bada Bing, got a ding.

Liza: Bada Bang, there was a clang.

Phoebe: Bada Boom, there was a...

Nino looking worried and apologetic: A Zaloom?

{Beakman then moves closer to Nino, and puts his face close to his.}

Beakman: And a Cassio. {They then both smile, and the camera zooms-in on their faces.}

{The screen then fades to black, and the credits start to roll. Then they are interrupted. The scene then shifts to a table top, with the penguins walking across it.}

Don: So what did you think of meeting Beakman in person, Herb?

Herb: He has a amazing place here, just a bit too warm for my enjoyment. They need 5, or 6 air conditioners, and a hill of ice, and I'd feel like I was at home.

Godofredo: They also could use, a series of tunnels to crawl through. The one we could find is sitting over in the corner, and it's all full of snot.

Mau: Yes, but even though there is only one tunnel, at least it has tasty snot on its walls, and we can enjoy eating that for quite a while.

Herb: Oh no, hearing that is going to make me sick.

Don: Well if your going to be sick, go outside, and take a newspaper with you. I'm tired of cleaning up your messes. Now say good-bye Herb.

Herb: Okay, goodbye Herb.

{The screen then fades to black, and the credits continue.}

*{Continued in part 5...}*

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<https://www.facebook.com/BeakmanFans/photos/a.1097547883756862/1171826189662364>

## Introduction to the fifth story.

*{The English version, and Portuguese version were originally posted on March 09, 2019.}*

It is that time of year again, to enter the worlds of imagination. Again two worlds unite into unique ways, and surprising events unfold. Whether you wish to recapture your childhood, or you are visiting these worlds for the first time. We hope you will enjoy this fourth adventure, into the worlds of humor, science, and education. As with the earlier three version, these stories are presented in both English, and Portuguese. On our "Beakman Fans", and "Castelo Rá-Tim-Bum, Entusiastas" Facebook pages.

If you want to read the original Facebook postings of the stories, here are the links to the English version, and the Portuguese version that Otavio translated.

### *English version.*

Beakman's World. Episode 93. Sight, Beakmania & Sound

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<https://www.facebook.com/BeakmanFans/photos/a.1097547883756862/1171826189662364>

### *Portuguese version.*

O Mundo de Beakman. Episódio 93. Visão, Beakmania e Som

\*

<https://www.facebook.com/CasteloRaTimBumEntusiastas/photos/a.1539576972950499/2230558840518972>

*Beakman's World: Sight,  
Beakmania &  
Sound  
{Episode 93}*

By Tyler "Teary Eyes" Anderson

Translated by Otavio Almeida





This is a clip and paste image, by "Teary Eyes" Anderson, to go along with the fourth story in this series, also written by him. In the first 3 adventures in this series, the characters from the United States television show "Beakman's World" {O Mundo de Beakman}, visited the characters from Castelo Ra-Tim-Bum, the fourth story had the 'Castelo', characters return the favor, by visiting the "Beakman's World" characters. If you have not read these earlier stories here is a few quick links to begin your adventures into these worlds. As with the previous stories, and accompanying images, these were made for a friend's birthday.

Castelo Ra-Tim-Bum/Beakman's World, The Complete Fan Fiction Trilogy

\* <https://archive.org/details/CasteloRa-Tim-BumBeakmansWorldTheCompleteFanFictionTrilogy>

Castelo Ra-Tim-Bum/O Mundo de Beakman, A Trilogia Completa da Ficcao de Entusiasta

\* <https://archive.org/details/CasteloRa-tim-bumOMundoDeBeakmanATrilogiaCompletaDaFiccaoDe>

Beakman's World/Castelo Ra-Tim-Bum, story #4

<https://www.facebook.com/BeakmanFans/posts/924363684408617>

O Mundo de Beakman/CasteloRa-Tim-Bum, historia #4

\* <https://www.facebook.com/CasteloRaTimBumEntusiastas/posts/1998738060367719>

#BeakmansWorld #OMundoDeBeakman #CasteloRaTimBum #FanFiction #FiccaoDeFa #Story5  
#Historia5 #Castelo20Anos #RaTimBumOCastelo #Beakman #PaulZaloom #Lester #MarkRitts  
#Josie #AlannaUbach #Liza #ElizaJaneSchneider #Phoebe #SentaMosesMikan #DonAndHerb  
#BertBerdis #AlanBarzman #Nino #CassioScapin #Pedro #LucianoAmaral #Zeca #FreddyAllan  
#Biba #CinthyaRachel #ZecaNinoPedroEBiba #DrVictor #SergioMamberti #RosiCampos  
#Morgana #Adelaide #LucianoOttani #Godofredo #AlvaroPetersenJr #Mau #ClaudioChakmati  
#DeniBloch #Dina #GatoPintado #FernandoGomes #TheoWerneck #GersonDeAbreu #TapEFlap  
#SpeedOfLight #VelocidadeDaLuz #Hearthstone #BadgeOfAQuitter #Braille #LouisBraille  
#ValentinHauy #Blind #Cego #ColorBlindness #Daltonismo #CorrectiveColoredGlasses  
#OculosColoridosCorretivos #RGB #OpticalIllusions #IlusoesDeOtica #Cataracts  
#OpacidadeDoCristalino #Floaters #WallsOfSound #ParedesDeSom #SoundMaze

#LabirintoDeSom #EchoMaze #LabirintoDeEco #SoundBall #BolaDeSom #Riddles #Enigmas  
#Puzzles #Dingo #Dogs #Caes #Cats #Gatos #Bats #Morcegos #MythBusters #CacadoresDeMitos  
#EyeColor #CorDosOlhos #Deaf #Surdo #HearingLoss #PerdaDeAudicao #EarTrumpet  
#TrompeteDeOrelha #HearingAids #AparelhosAuditivos #BoneConduction #ConducaoOssea  
#Beethoven #CharlieChaplin #Mime #PedroPonceDeLeon #SecretMessages  
#MensagensSecretas #Codes #Códigos

{Fade in, to illuminated image of the moon, on the wall.}

Don howling like a wolf: Owwhhaa

{Camera lowers to a darkened forest area, of Beakman's Information Center studio. Between the trees is a igloo surrounded with ice, and the two penguins standing outside.}

Herb: Don, your going to wake everyone up. Why are you doing that? We aren't at the South Pole anymore.

Don: Sorry penguin pal of mine. It's just that time of day, my instincts take over, and I think about our wolf friend, and how we would give him our fish left-overs.

Herb: I don't think he was a real wolf. I think he was a expedition dog, from the polar station, wanting to beg food from us.

Don: Either way, he woke us up every day at the right moment, to begin watching Beakman's World. And now here it is, time to start a new day, and to watch Beakman's World, from inside the studio itself.

Herb: Waking up to new science, and knowledge. The best way to start off your day, its a real

howl. Owwwhaaa.

Don & Herb: Owwwhaaa. Owwwhaaa. Owwwhaaa.

{A penguin flipper is then seen pressing a button on the remote control, for the studio lights. An explosion type sound is heard as the lights come on, but it is Beakman yawning, sitting up, and rubbing his eyes.}

Beakman: Fast Fact, did you know that light has many speeds? Its speed depends on whatever environment it is in. Fog, gelatin, gas, or the vacuum of outer space. Each substance it goes through, it will have a different speed. However its top speed, is known as the "Speed of Light" which can only be achieved in a vacuum. However even something like a piece of paper can stop a photon of light. Catching these photons is how we see.

{The opening credits then begin. The camera then shows a overhead video of Information Center, Beakman getting off couch, Liza, Josie, and Phoebe waking up from their reclining chair beds. And a Lester wandering across the room, tripping over a footstool, then continuing across the room with his arms outstretched, as if half asleep. The Castelo kids, and their parents are seen rolling up their sleeping bags.}

Beakman: Good mourning Liza, I had a strange dream last night. I dreamed I was kidnapped by some goblin creatures, and told to teach them about science. Then they kept challenging me to card games, near their Hearthstone. Which of course I always won. I must have been doing too much research into your video game voice linguistic projects, and lost track of time, last night.

Liza: I always love falling asleep to voices. Their tones, and rhythms are like music, to loose yourself in, and pass into the world of dreams.

Pedro: I always liked falling asleep looking at the stars, or the moon, imagining I could use a radio, and contact life on the moon. And things like that. What do you enjoy dreaming of son?

Sancho-Esteban: I always dream about the adventures you had in the Castelo, and the time I got to visit it for myself. The Castelo is something magical, and wonderful.

Josie: Dreams are a way that our minds review our thoughts, categorize them, and try to analyze events, from a different perspective. Sometimes they are wish fulfillment, other times they are tasks that aren't completed. Now please hurry, and move these things to a distant corner, so we can begin the show. Children all around the world will soon be tuning into watch the show, and we haven't even picked our first question yet.

Phoebe: I'll go and check the mail room, and see how many new correspondences we have received. I'm sure there will be a great puzzler, in one of those letters.

Zeca: I enjoyed spending the night, here in the Information Center. It was like camping out, without the dangerous animals, or the having to go behind a tree, to use the restroom.

Maca: I liked seeing the stars from the skylight, and the lightly flashing exit signs. It was like being in a cave, and inside the big city all mixed together. However I didn't get much sleep, all I heard, the entire night was that guy in a rat suit snoring.

Beakman: Yes, he is like a lovable pet, that rarely does anything, which you ask him to do. But he does have his helpful moments. When he isn't sleeping, or looking for food.

Biba: Spending the night here was similar to the moments I spent with my scouting troop, back in my younger days. Earning badges, helping the elderly, learning to cook, and acquiring survival skills.

Phoebe, dragging two bags behind her: I was once a scout also, we sold cookies, tried to start fires, and made crafts. But I always forgot about the meetings, and rarely completed the tasks. If there was a "Badge of a Quitter", I probably would have gotten it. I think I got 6 skill completion badges, when I was young.

Josie: Move it along people, this episode isn't going to make itself. We still got research to do, correspondence to sort, experiments to check. And safety equipment, to put into place. Before Beakman starts his demonstrations. Do you remember what happened last time? He crashed through that wall over there.

Baba wondering around, after putting away her sleeping bag: Hello Gato, what are you doing now, reading?

Gato, seated at a desk, with his paw on a book: I have been reading this book for the last few hours. I did not want to wake anyone, so I began reading this Braille book.

Baba: You were reading in the dark? What is a Braille book? It sounds like it has a French origin. Is it a illustrated book?

Beakman, picks her up, and spins her round: From the questions of children, the education of the world can be achieved. Yes, that is correct, or at least partially correct. Braille was the name of a French teacher that lost his sight in his childhood. That will make a great topic for this morning's show.

Josie: Do you want me to get your French teacher's costume ready, for him to be our special dead guest scientist?

Beakman: Nope not today. I have a better idea whom can be our special guest for the day. All I will have to do is make a special phone call.

{Beakman walks over to a old style, rotary phone. Picks up the handle. Dials a number, and then places the handle back on the phone. He then lifts off the cover, showing a small cell phone under the larger phone.}

Beakman: You can never be too careful, with security around here. Once my phone was lost for

an hour, and we had 30 pizzas delivered here a few minutes later.

Dr. Victor: Yes, Nino did something similar when you came to visit our Castelo, but they were expensive packages.

Nino: I apologized for that, already. I'm only half awake, what is going on, will we be on TV again like yesterday? I hope everyone at home in Brazil gets to see us. Including Dina, I think she is infatuated with me.

Pedro: As I recall you were the one chasing her around, with romance in your eyes, but she liked me more.

Nino: That was a long time ago, my relationship with her has become much better since then. I want to make her proud.

{A image of Dina appears above Nino's head, and he stretches his neck ready to kiss her.}

Zeca: I think they wear clothing, which is too similar to each other. I wouldn't be surprised if they dance in front of each other, and pretend to be mirror images of the each other.

Beakman: Okay, that's enough for now. I'm going to need Nino's help in a few minutes, after I finish my phone call. Off to the make-up chairs, your morning grooming, and remember to brush your teeth. A clay shaped rat fellow wanted me to remind you about that.

{Beakman then turns on his cell phone, and slides various sections of text into the center of the screen, and then quickly presses the "Send" button.}

Beakman: I just finished asking our guest teacher, to come onto our show today. Are you ready for a day of science today Nino?

Nino: Well I am still partially sleepy, but I'm glad to help you, if I can. You have always been a big inspiration to me.

Beakman: That's great I could always use a slightly dim witted assistant with my science demonstrations.

{Nino looks sad, and slightly confused, but follows Beakman. Next in the mail area everyone has gathered waiting for Beakman, and Nino.}

Beakman: Our first question for today, is from our special guest Baba. She asks, what is Braille, and how can it be read in books?

Nino: {Gulp}, I was never very good at reading.

Baba: He's answering one of my questions. Did you hear? Beakman is answering my question.

{Baba shakes Maca, as she questions him.}

Maca: I can't think, when your shaking me to pieces. He's already answered our questions before, or have you forgotten yesterday?

Sancho-Esteban: If you don't stop talking we'll miss the answers.

Mau: Oh sure Beakman answers their questions, and not ours. And we even have to wake up, before lunch time. I hope the show will be rebroadcast later today, so I can watch it after I am more rested.

Godofredo: I'm excited to watch the recording of a actual episode of Beakman's World. It is a dream come true. This is the best moment of my life. I can hardly control my excitement, I am shaking all over.

Mau: Settle down, or you will hear my fatal laughter, and then never hear anything again. Now do not disturb me, while I crawl back into our snot filled nasal tube, and take a nap.

Close-up view of Beakman: The word Braille, comes from the last name of Louis Braille the inventor of the writing system. Although there were several earlier writing systems that could be read by the blind. Louis's version was created with the intent of being simple to use, and to write. Earlier version of writing for the blind, or secret writing, involved raised {embossed} letters, or symbols. At the age of three he lost the sight in one of his eyes, and the other eye got infected, and by the time he was five years old, both his were blind. His teacher Valentin Hauy, at a school for the blind in France, tried to teach children to read with embossed alphabetic letters. This process was created by Hauy in 1784, but this proved to be difficult, to write and to read. A later writing and reading system was created for the French military in 1815, using raised dots to send secret messages. But this also proved to be difficult. At the age of about fifteen, Louis Braille began trying to create a version of writing, and reading which would be easier for the blind. When he turned twenty years old, he published a book about his new writing system. He later became a teacher, and eventually a professor. But his writing system was never taught, in his school, during his life time. But it became popular slowly, and soon after his death. Then is writing system began to be adopted around the world. There are also versions for mathematics, and music. Fast Fact, many countries are now creating money with surfaces that can be distinguished by feeling them alone. Come here Nino, close your eyes, and tell me if you can feel the difference in these four pieces of paper money. You can have two of them, if you tell us the reasons you choose each.

Nino: Well, these papers feel similar, and two of them seem longer then the others. I know that gold, and diamonds are more valuable then paper money, even though they are smaller. My guess is, that the smaller the paper money, the more expensive its value. I will take these two small pieces of currency.

Beakman: Well, congratulations. Here let me take the money you did not choose. You have chosen the Malaysian Ringgit 1, worth about 25 cents, in USA money, and the other is an Australian one dollar note worth about 75 cents, here in the USA. These other dollars were \$100 USA, and the other was a 100 Brazilian reais, which I got during my last visit to Brazil.



Thank you so much for playing. Yes, everyone that contributes to science is a winner in my book.

Maca: Wow, Malaysia and Australian money, I wish I could have earned that. Can I have them?

Nino: Sure why not, I just gave up a fortune, this small amount can't do me any good.

Maca: Thank You. Back in Brazil, I could probably trade them for \$15, or more if I find the right buyer.

Nino: Huh? On second thought, maybe I should keep them.

Dr. Victor: Now, now, Nino. You already gave them away. It is not nice to ask for presents to be returned. What would Morgana think, if she knew?

{Nino kicks the ground with his toe, and walks away from the camera's view.}

Nino: Even when I'm a winner, it seems I loose.

Josie: Speaking of money that can be identified by the blind. Did you know that most people that are called blind can see something, whether its just shadows, or certain colors?

Beakman: Yes, that's right. Thank you Josie for steering me back to the topic at hand. The most common type of blindness is from proteins building up, on the inside of the lens of the eyes. Making a person's vision seem cloudy. Or like this.

{A thin piece of nearly transparent paper is placed in front of the television camera. Liza then rubs her face up against it, and moves her hands along it, making ghost type sounds.}

Liza: Ohhh, ahuuu. It looks a bit scary doesn't it? Things quickly going from shadow, to clear, then blurry again.

Beakman: Yes, thank you Liza for that hauntingly good representation of partial sight, due to cataracts in a person's eyes. Just like adding another piece of paper, cataracts, can get worse, and worse. Until hardly any light reaches the retina of the eyes. This condition seems to have first been diagnosed as early as 2,500 years ago, various treatments were developed, but surgery is needed for most of the advanced cases.

{Liza continues to wave her hand behind the paper, as more and more similar, transparent pages are added, making her hand less visible.}

Beakman: Another common type of blindness is called color blindness. This occurs when the color photoreceptors on the retina, are damaged or not working. The retina contains rod and cone receptors, but the color wavelengths of light are recognized mainly by the three types of cone cells. These cones are sensitive to the colors Red, Green, and Blue.

Phoebe: If you ever see the letters RGB, on a monitor, display, or on art store product. Remember that this is for the colors Red, Green, and Blue. A way to represent all the colors of the rainbow, with only using these primary colors.

Beakman: With color blindness, one or more, of these color receptors are damaged, or not working.

Zeca: What about the color yellow? Doesn't yellow and blue make green? I remember learning that, when I was as young as my son is now.

Beakman: In this RGB system of additive colors, yellow is created using a mixture of red and green. Another color system for painting, and printing of colors is called the "Subtractive Color" model. It focuses on Cyan (light blue), magenta {purplish red}, yellow, and black {Key black}.

Most comicstrips are made of these colors, including mine. Josie will you hand out the glasses please?

{Josie distributes sunglasses to the children, and their parents.}

Dr. Victor: No need for any sun glasses for me young lady. I have special glasses, of my own. Nino come here, you might want to see this.

{Victor then presses a button on his glasses, and three color filters slide down over his glasses.}

Nino: I'm going to go, and hang out with Lester. He is like me, downtrodden and misunderstood. Only he seems to understand my suffering. Its also fun listening to him play guitar.

{Liza, and Phoebe, walk in front of the camera, holding a large picture of a waterfall. Liza makes the waterfall sounds, while Phoebe makes a wind type sound. As they rock the picture slightly up and down.}

Beakman: Here is a photograph of a waterfall. Take a look at the various colors, with and without your glasses. These glasses separate the colors in a slightly different way, for each of these glasses. Correcting for various types of color blindness. The colors Red and Green overlap in most people's vision, but some people can not see the difference between these colors. For this reason, these glasses block light wavelengths that overlap in these people's vision. It in a way, helps them distinguish between the colors easier. After looking through your glasses, trade your glasses, with someone else, and see how the colors seem similar, but also different. For the people at home, we'll simply show the different color filters on the screen, so they can see the waterfall in its various color versions. Ray if you will, could you please put up the image for the people at home?

{The waterfall image is then seen with the various color changes, representing the different corrective colored glasses. Liza and Phoebe then flip the picture over, and on the backside is a negative version of the image, with colors reversed.}

Beakman: Now please take off the glasses, and stare at the center of the image for about 30 seconds. We will also now show this to the people at home, on their television screens. After that time we will change the image to a black and white version of the image. But instead of seeing it as black and white, it will seem to be color. Because the other colors are tiring out your cone color receptors. They now see only in the colors that aren't there, making a optical illusion of color. But if you move your eyes away, and then look back at the image you will see that, it is actually black and white. This is called the color afterimage illusion.

{Liza and Phoebe, then pull on the bottom of the image, revealing the black and white image underneath. After the children and parents look away, and then look back at the image. Liza and Phoebe then look down, from behind the image, then look back up, and their eyes are crossed. They then tap the sides of their heads to try get their eyes to focus straight ahead again.}

Beakman: There are other interesting subjects about the human eyes that we could talk about. Floaters, little particles of cell debris caught in the jell of the eyes. These cause ghost like shadows, that pass back and forth across a person's vision. There is also "Visual snow", a sparkling of light and dark spots, that can be seen by some people, as they move from light to dark, or dark to light filled areas. Remember that even the colors that we can see, are only a small segment of the wavelengths of light. There are also gamma rays, x-rays, ultra-violet, and even radio waves, which we can only detect using electronics. Now with electronics, some people can recover some of their sight. With light sensitive devises attached to a person's skin, surgically implanted into a person's eyes, or attached directly to the brain itself. Speaking of electronical devises.

{Beakman then presses a button on his arm.}

Beakman's watch, begins beeping, and chiming: It's that time again, it's time for the...

Beakman: The Beakman Challenge!!! {His voice echoes through the Information Center.}

{Dr. Victor, pressing the button on his glasses again, and then in reverse, the filters on his

glasses go back up.}

Dr. Victor: I see you've made a few improvements on your watch, since yesterday.

Beakman: Yes, late last night, while laying in the darkness, I found inspiration, to add a louder speaker. Sorry if it woke anyone. Speaking of inspiration from the darkness. Ladies if you please will you bring in the walls of sound?

{Josie, Liza and Phoebe push in wheeled plastic walls, and begin making coordinated zig-zagging paths through the studio. Then they leave them, and bring in a few more. Josie then hands everyone a noise clicker. While Liza and Phoebe begin blindfolding the children and their parents.}

Beakman: Here we have just created a echo maze. The object of this challenge is to use these little clickers, to find your way through the maze. You need to use the clicker to make a sound, and its sound will echo between the walls. This should give you enough information, to navigate the maze, even though you are blindfolded. This is similar to how bats, some birds, dolphins, toothed whales, and even underground animals like shrews echo locate. If you succeed in this challenge. you will receive, our special visitor gifts. Sound balls for playing catch blindfolded. And the shape shifting mirror 3x3x3 puzzle cube.

Dr. Victor: This sounds like something Nino would like to try. I'll go and get him. He should at least find that winning a prize, would be worth trying this challenge.

{Screen fades to black. Then loud banging, and guitar type sounds are heard.}

Don: I think I heard them practicing this event last night. I kept hearing things that went bump in the night.

Herb: Perhaps it was monsters under the stairs, or in the closet.

Don: Nope, not in the closet, Beakman keeps his skeleton over there, and his name is Bones.

Herb: That's why we have the night light on, to help keep the monsters away, and of course to find the restroom. Although I was hoping Beakman would give us a litterbox. But we can't have any litter around here. This is a laboratory, and everything needs to be tidy.

Don: I wonder what those noises were last night. If they were preparations for the challenge.

Godofredo: Sorry about that, those sounds were us, and Lester raiding the refrigerator.

Mau: Yes, it was difficult for the three of us to take things out of the refrigerator at the same time.

Godofredo: It's a puzzle how we all managed to fit inside, and empty all its food.

Mau: Speaking of puzzles, I have a riddle for you. What goes down white, and pops up brown or black. Gets hot, and then cold again. Answer correctly or fear the result of my fatal laughter. Ha, ha, ha.

Don: Is the answer, Food falling on the floor?

Herb: My answer is the stove. It is white on the outside, and dark inside. But I do not understand the popping up, section of the riddle.

Godofredo: I know, the toaster drops bread down into itself when it is white, and when the bread comes out it is brown, or black. Then the toaster needs to cool down.

Mau: Not fair, not fair at all. You were supposed to let them fail, so I could show off my skill, and petrify them with my fatal laughter. I guess I'll just have to continue singing to that music, the rat suit fellow, is playing.

{Camera then shifts to Nino sitting on a step, while listening to Lester play guitar. Lester's back is turned away from the camera, as he dances to the music, while he plays.}

Dr. Victor: Come along Nino, there is something I want to show you.

Nino: But I wanted to finish listening to Lester play guitar. He was going to teach me how to play it, when he finishes his performance.

Dr. Victor: You can play with your rat friend later. I think you should take the time to join in with the rest of the group. Besides you might win a prize, if you can successfully complete the maze, and come out on the other side. All it will take is a little concentration.

Nino: Okay I will go, but I want to bring Lester with me. I know he is the only one that will not laugh at me, if I fail. After all he fails all the time, and that doesn't stop him, even with all those failures he was able to make such great music, and finish college, after several hundred attempts. Lester reminds me of that guy from the television show DuckTales, and now that I think of it, the Darkwing Duck television show also. He may crash the plane, or fail at some task, but he always tries, and he is helpful, when he is not eating or sleeping. I'd even feel safer riding with Lester in a plane, with him piloting the plane, rather than on a broomstick with aunt Morgana, she flies like a crazy person. Because of her hyperactive broom.

Dr. Victor: Speaking of Morgana...

Nino: I already promised not to ask for my money back, so I hope you will not tell her about my loss. Come along Lester, let us go and win some prizes.

Dr. Victor: Thunder and Lightning, that boy is impatient. But he will learn soon enough, anyway.

{Fade to black, then fade in, as Zeca walks past the camera blindfolded. Then into the maze of plastic walls. One hand outstretched, and the other working the clicker.}

Beakman: Notice how the clicking becomes quick when he is near a wall, and long slow clicks in open areas. Sadly unlike the children that made it through with only a minimal of reaching out, all the adults need to also feel the wall before they are willing to believe their own ears.

{Thump sound, and a frustrated groan, as Zeca crashes into a wall.}

Biba: You children all did a wonderful job at finishing the maze. Sadly us adults, were less skilled at using our ears to navigate. I tried to make a map of the area around me, in my mind. Then it got erased every time I turned another direction, and thought I was walking into a open area, when I really just crashed into another wall.

Pedro: I had as much trouble with finding my way through the maze, as if I had been using my hat to bounce echoes to my ears. I had to touch the walls several times, so I could go in a straight line away from the wall.

Zeca still in the maze: It feels like I'm about half way through the maze. I think I'm going to complete it, see it isn't that hard when you try. {Crash} Ouch, where'd that wall come from?

Josie: Remember this maze doesn't even have any dead ends, it simply turns in different directions, and ends at the other side.

Liza: With my excellent hearing I was able to make it through the first time without touching any walls. Did I ever tell you that I also learned violin by simply listening to it, and trying to replicate what I heard? That's probably why I am so good at hearing accents, and I'm a expert in linguistics, and dialects.



Phoebe: And then there's me, I'm the expert in rhythm. Ba-da-bop-pop-pow. {She then begins tap dancing.}

Beakman: Here he is, Zequinha has finished the Beakman Challenge!!!

{Zeca while taking off his blindfold, then covers his ears for a second, as Beakman's voice echoes even louder through the walls of the maze.}

Beakman: That looks like everyone has had a chance to finish the maze. Phoebe I think its time you get prepared for...

Phoebe still tap dancing around everyone: I'm on it boss. Bop, bop, chaw, ba-da-bum. Ring-a-ding, bomp shoo wap...

{She dances away, as Nino and Lester arrive at the maze. She circles Lester, whose back is turned away from the camera, as he watches her.}

Josie: Here are the prizes, that each of you have won. The sound ball, to encourage you to listen with, and learn about, the world with your ears. And the fascinating shape shifting cube puzzle, great as a decoration, or a great brain teaser, if you are able to solve it. Without taking it apart. {Using her foot, she then pushes a bucket of the toy parts, behind a plant.}

Liza: And here is your signed, and notarized certificates of completion. It says that you have officially completed the Beakman Challenge!!! And it is signed by all of us, as witnesses, and anyone else we could find, that wanted to sign it.

Beakman: Its even got a hologram of me in the lower corner, near my signature. It's suitable for framing, or laminating, and placing it with your job resume pamphlets. Everyone whom sees it will be suitably impressed.

Nino: Wait a minute, I want a award, and prizes also. Me and Lester can do the challenge also.

Beakman: Well, this segment of our show is almost over, but we will give both of you the chance. Nino you'll start here, and Lester can start at the other end.

{Beakman then leans over towards the camera, and then winks one of his eyes. He then shows his two hands crashing together.}

Liza: Right this way, my lovely little Rat fink.

{She then takes him to the other side of the maze, and blind folds him. Nino is then blindfolded by Josie. From overhead both sides of the maze can be seen, and the path, which will lead both people to the center. Then a animated version of a car crash is seen.}

Nino: Let me see if I understand, I click this sound maker, as I walk through this maze, listening to the echo. Is that correct? It sounds, hehehe, super easy.

Beakman: Yes, that is the Beakman Challenge!!! Can you do it? While you are trying to accomplish this, we will set up the next segment of the show.

{Nino then walks into the maze with his hands over his ears, and shaking his head, because of the loud echo of Beakman's voice. He then sneakily raises up a corner of his blindfold to see where he is going. The lights then begin to dim, and red spot lights, and alarms begin sounding. Nino quickly pulls the blindfold back over his eyes.}

{Fade out to black, and fade in to flashing red lights, and "Beakmania" sign.}

Phoebe: Its time to baffle, your wits. Tie on your thinking ribbons, and put on your thinking

caps. Here he is, the man without a cape, that will swoop in, and confound your intellect. The one... The only... The Beakmannnn!!!

Beakman: Let us slip loose, the knots of ignorance. Untangle the string theories, and practical sciences. Stand on the shoulders of giants, and scope out new frontiers of knowledge. Now let's Cha-Cha-a-round da-dingos.

{Scene quickly switches to penguins looking into refrigerator.}

Don: Howl.

Herb: No Don he said dingo, not wolf.

Don: I'm howling because all the food is gone. It has all been eaten already.

Godofredo: See I told you, we ate everything. Lester and Mau ate nearly everything. I myself only got a few crumbs.

Mau: I think the rat guy hid most of the food in his suit, to eat later. If someone doesn't bring food soon we'll all starve.

Mau, Godofredo, Don, and Herb: No, owwww, howl..

{Fade to black, and back to Beakmania, and envelope drum spinning. Josie opens door and voice of message is heard.}

Envelope drum: What do you want from me? I was paid for in full, at the post office.

Josie: First question Beakman, it says, "What is a dingo, and where do they live?"

Beakman: A dingo is a Australian dog. It is thought that to be descended from ancient dogs of Asia. They can howl like a wolf, or bark like dogs.

Maca: I've got a question Mr. B. Do dogs and cats have a common ancestor?

Beakman: Many people think that the cat {Felidae} and dogs {Canidae} branches of the Tree of Life, join at a animal called the Miacid. A long bodied animal which is now extinct. It seems to have had, retractable claws like a cat, but with a pelvis bone similar to a modern dog. Fast Fact, did you know that the Saber-toothed cat had large teeth to hunt its main source of food, large animals. It needed the long teeth to puncture the hides of the bigger animals.

{Liza then sneaks up behind little Maca, and pretends to be a vampire, ready to bite him on the neck. He gives her a disappointed glance. She then lifts up two giant saber teeth.}

Maca: At least with big teeth like that, it would be quick to brush your teeth.

Pedro: Are dogs really color blind?

{Animated sign "Myth Busters" appears, with a asterisk behind it, and below saying "Not to be confused with the trademarked television show, of the same name".}

Beakman: Most dogs have blue, and yellow receptors in their eyes. Unlike the three color in human eyes. This is sometimes referred to as color blindness, but they can still see colors, only fewer of them. They can also see various shades of gray. Sort of like looking through sunglasses that tint everything one color, and it becomes difficult to determine which color you are actually seeing.

Biba: What types of colors can bats see?

Beakman: Bats can see more into the ultraviolet, the higher energy waves, which we need to be protected from. They can see in the Red and Blue range of light, they do not seem to be as good at seeing colors like Green. However this possibly changes for each bat species.

Baba: Why do I have colors in my eyes?

Beakman: The colored part of your eyes is called the iris. Its color comes from various colored pigments of your melanin, the same stuff that makes up your hair and fingernails. A eye's iris can be brown, grey, or even black because of this. However if the layers of cells are not dense enough, the light gets scattered in the eyes, and colors like blue, and green are created, similar to the sky. There is also a yellowish brown pigment named Lipofuscin that gives eyes a golden brown type color. That mixed with the refraction from the thin layer of melanin can result in a greenish type eye color. Because of different pigment in various other animals, birds and many other creatures can have eyes that are colored differently then humans.

{A thump is then heard. Nino then groans. There is then a view of the maze from above.}

Nino: Am I near the finish of this maze yet? It feels like I've been blind folded for hours. Lester how are you doing?

{In reply there is a distant thump from another side of the maze, as Lester crashes into another wall.}

Beakman: Fast Fact, did you know that trees planted in the ground can still move? Here is a picture of a tree, and here is another picture of the same tree a year later. Can you figure out how it moved?

Maca: Did its roots raise up above the ground, and pull it along, like a evil Triffid, with the goal of ruling the world? Mahahaha!

Baba: The ground around it also seems like it has also shifted. Is that part of the answer?

Sancho-Esteban: I think it was a land slide, and everything on the hill seems to have slipped, or crept, down hill. You can see that the house in the distance is at an angle, so the picture is tilted to make a slope look flat.

Biba: Yes we have smart children here, they have watched your show through the years, and have learned to analyze everything, to try and understand things that seem impossible.

Pedro: We are proud of our children.

Zeca: It is also important to have a good imagination, and think outside of the box. Imagine the fantastic, and question the limits of what is possible.

{Sancho-Esteban then puts his hand into a pocket and brings out a note.}

Sancho-Esteban: Beakman, I wanted to know if you could pronounce this word for me. I saw it in a article about human ancestry. The article was about how children can look, and act, like their parents.

Beakman: Well, if it's a pronunciation you need, we should give the paper to our resident expert on the subject, Liza. She can break down the word for you, and give you precise explanations of its etymology, and terminology. Answer the question of, if it was written in a rhotic, or non-rhotic language. And explain how the word was constructed, and its exact pronunciation.

Liza: Ahh, let me have a look at that paper. You can see that the phonetic notations are missing. For instance this letter 'e' seen here doesn't sound like a 'e' at all. It would more closely sound

like...

{Liza, Sancho-Esteban, and Pedro walk away to a table, for a better explanation. While they helplessly look back at Beakman. Josie is then seen mixing the caged drum, and Phoebe pulls out an envelope.}

Phoebe: This question, asks what if a person can not read or hear, how can they learn, and possibly read?

Josie: This is it! It's my chance to play Helen Keller, get my wardrobe ready. I've been waiting years for this. Don't worry Phoebe you can play my teacher Anne Sullivan. I no longer have to play second fiddle, I can be the star of the demonstration, showing how she learned to read, write and talk. After she became blind and deaf.

Liza from off screen: Did I heard something about playing fiddle? I'll remind you, that I not only play the fiddle, I also play the banjo, and any other instrument that I can find...

Beakman: Hold on Josie, I think this is a topic we can leave for our special guest teacher, flying in all the way from Brazil.

Nino in the maze: Oh, no! I hope he doesn't mean Aunt Morgana. She was supposed to be spending time with...

{Nino then collides with Lester in the center of the maze. From the overhead view, they can be seen falling over each other. Then laying on the floor in a jumble of arms, legs, and a tail, as they try to stand up. Eventually they get tired, and decide to rest there a while.}

{A broom then passes the overhead view, the legs of two people can be seen dangling from the broom. The camera then shifts to Beakman, and there are crashing sounds heard.}

Beakman: It is now my pleasure to introduce a great teacher, that has lived through much of history. Meet many exciting people, and learned first hand knowledge about important moments in history. {He then looks at the children.} You might remember her from her educational theater plays, or even her self titled musical song. Here she is the one and only.. Morgana.

Phoebe: I wish he'd let us do all the introductions. Where's all the rhythm, where's the fun, and dancing?

Josie: Well, we better get the demonstrations ready. Lester looks like he'll be stuck in that maze for a while.

{Morgana then comes out of a door, with foam flowing out behind her.}

Morgana: Sorry about that fire extinguisher. Valdirene, my broom sometimes has a bit of trouble stopping. She becomes hyperactive at times, and it is a bit difficult to calm her down. She'll sometimes start sweeping the floor, and won't stop until there is a big pile of dust in the corner.

Phoebe: We could use someone like that around here.

Morgana: But she mostly bumps into things, and causes a mess.

Josie: That sounds similar to Lester.

Beakman: Shh, be quite, the teacher is speaking.

{Josie and Phoebe, pretend to pull a zipper across their mouths, and touch their fingers to their lips.}



Josie and Phoebe: Shhh...

Beakman: The question was, how can a person learn, or read if they can not see or hear?

Morgana: Before I left home, I saw that you already explained blindness. I will now explain hearing loss. Just like loosing your sight, hearing loss can be experienced in small increments, or it can happen all at once. Hearing is done by a small bone in the inner ear. The sounds cause it to thump on the ear drum, and send the signals to the brain. However, the ear drum, the bone, or the nerves might be damaged. And the signals from the sound waves, do not reach the brain.

{Phoebe then mime acts the part of the sound waves shaking her, then thumping her finger against the side of her head for the ear drum sounds. Then waving her fingers, she covers her head, as the signals go to the brain. Overlaid on her image is animation showing the various stages of the sound wave's journey.}

Morgana: If a person knew the words you were saying, they could watch your mouth, and guess what you were saying. This is called Lip Reading.

Liza at the table: Excuse me for a second, I'll be right back.

{She then walks over to Beakman, gives him a piece of paper, then returns to the table. Pedro and Sancho-Esteban seated there with their hands on their faces as if they can not understand a word of Liza's notations. Mau and Godofredo look over the edge of the table.}

Mau: Wow very interesting, at last someone with a real interest in words.

Godofredo: Imagine the many new tongue-twister phrases we can learn from Liza.

Mau: When she is finished with her current task, I think I will ask her if she has ever heard anything like my fatal laughter.

{Back in the center of the studio, Beakman unfolds the paper and shows it to the camera.

Beakman: Here is a diagram that Liza made showing the tongue, and mouth positions of various sounds in the English language.

Morgana: When people had only partial hearing loss. For many years only shouting could help. But about four hundred years ago. A new invention was created. It was an ear trumpet, which acted like a funnel. It amplified the sounds, and conveyed them into the ear. This allowed the person to hear words, and understand them directly. New modern versions, are things like hearing aids, which also amplify the sounds electronically, or bone conduction. The sound passes through the cheekbones usually, which can bypass the ear drum itself and reach the inner ear which can then send the signals to the brain.

Beakman: Fast Fact, did you know that after Beethoven lost his hearing, he would bite on a rod of metal, and place the other end on his piano to hear the sound through bone conduction?

Morgana: I met Beethoven once, he was a kind man, but he was always busy. Constantly working and reworking things until they were perfect. If a person could not hear you at all, or you did not know their language, you could do what people have done since ancient times. They would make hand gestures towards each other. Eating might be like holding a sandwich, and drinking might be represented by lifting a glass to your mouth.

{Josie and Phoebe then show how they could pretend to eat, and drink.}

Beakman: This type of gesturing was also very popular in the silent days of films. It was called 'Mime' acting. Charlie Chaplin was a very popular comedian that used this technique, which could later have subtitles added, and be shown in many different countries. Making him one of the first world famous actors.

Morgana then clears her throat: As I was saying, this hand gesturing eventually developed into sign language. With different hand gestures representing letters in the alphabet, or different words, or phrases. One of the first people to create a manual of these gestures was Pedro Ponce de Leon a Spanish monk, in the 1500's. I remember him well. He was always so energetic, and he tried to teach children, of the rich. I would tell him that he should teach everyone, and not just the rich. But he would say...

Pedro looks down at his son: See, your father is named after someone famous.

{Liza then gives him a look of concentration. He then looks back down at the paper, and tries to follow her explanations.}

Adelaide flapping her wings, and breathing heavily, lands on a table near Morgana: I finally made it here.

Morgana: You should have stayed hanging on to us, as we landed.

Adelaide: No thank you, I've seen some of your landings. When Valdirene gets excited, there is no stopping her. There doesn't appear to be too much damage, from your landing. Where is Eduardina, did she get hurt in the landing?

{Nino at hearing that name, quickly wakes up, and tries to free himself from Lester, and get away.}

Morgana: Dina is around here somewhere. She's probably looking for Nino at this very moment. My goddaughter has always had a mind of her own. Where was I in my lecture?

Maca: Did she really know all those people? How old would she have to be, to have known everyone of those people?

Baba: I remember hearing she created a theater play describing her search to discover how old she was. I think the results were hundreds of years. But it is not supposed to be polite, to ask a lady about her age.

Biba: You were talking about deaf people learning with their eyes, through sign language. But what if they couldn't see? Please continue your story.

Josie: Ah, like Helen Keller. I could quickly put on a costume and explain.

Beakman: We will let our special guest explain that as well. However we will need the science demonstration that is on that table.

Adelaide: Please continue your story. I want to learn more about this subject. I've always been fascinated with your stories of the past.

Morgana: If a person is also blind, as well as Deaf, the next sense that they will use, is their sense of touch. In this case, the finger tips are how people learn the shapes of objects, and their surface features. We have now come full circle, with Beakman earlier mentioning the reading and writing system of Braille. Now I think Beakman has a demonstration for us, that the children at home can try with their parents.

Phoebe: The tools that you will need are these; A set of bolt or wire cutters. A parent, a piece of wood, and at least six round headed pins.

Liza: And a piece of paper. A thick piece of paper like this.

{She then picks up the paper from the table. It still has all of her notes and explanations on it.}

Josie wearing safety glasses: You'll need a adult to clip off the tips of the pins so that they are about 1 centimeter from the pins head to the end. These will then need to be pushed into the wood, in two rows, of three pin heads each.

Beakman: With these 12 pin holes, we can add or remove pins to create up to sixty-four different combinations of patterns. We only have to place them in the holes, or take the pins out of the holes, to create letters, words, or phrases in Braille. All we need to do is press the paper down on the rounded pin heads, and they will leave dents on the paper. We can move the paper slightly to the side and change the pins around, and press down on them again, creating another set of bumps.

{Beakman then unfolds the paper, revealing that the single piece of paper he was holding, is now several pieces of paper with bumps on them. He then places them on the table in front of the children. Beakman then reaches up behind his head and pulls out the original paper with Liza's notes on it. He then turns over the paper, to show a guide to translating the Braille into alphabetical letters.}

Beakman: You can also send secret messages, using this secret writing technique.

Sancho-Esteban: That was some pretty good magic. I saw Liza, and Beakman's hands the entire time.

Pedro: It's not magic... It's...

Everyone else: It's science!!!

Morgana: They probably watch his show a lot.

Dina: Speaking of watching this show, where is Nino?

Dr. Victor: He is sadly still in the maze. Although to be precise, he did go in with Lester at the other end of the maze.

{Dr. Victor then waves his hands in the air. And like magic, the moving walls slowly move away to show Lester, and Nino tangled on the ground.

Dina: There you are Nino, let me help you up. We were watching you on television before we left from home. You mentioned my name, and then I saw that you had won some money. Did you really think, I was infatuated with you? And if so, does that mean, your willing to give me the money you won?

Nino: Sadly I do not have the money any more. I gave it to Maca, I was tricked into giving it to him, I think.

Dr. Victor, you thought it seemed worthless, and then when you heard it might be valuable, you wanted to ask for the money to be returned.

Morgana shaking her finger at Nino: Nino, did you do that?

Adelaide: Very selfish Nino. Haven't you learned that giving, and sharing are their own rewards?

Nino: I'm a good guy. I did give away the money I won. And I'd do it again if I had something else that someone wanted.

Josie: Speaking of winning, since you and Lester went into the maze at the same time. The other person was in your way, and it is understandable that you only managed to get half way through the maze. But here is your reward. I hope you like your prizes.

Dina: Oh, what wonderful prizes you got. I especially like that shape shifting puzzle cube.

Remember you just said you'd give anything you had away if you had something. Can I have it?

{She leans close to Nino, and he begins to blush. She puffs out her lips as if she is about to kiss him. He pulls away.}

Nino: Okay take it, I probably wouldn't be able to solve it anyway.

{She then hugs Nino, instead.}

Dina: Oh thank you, this is such a amazing cube, I could spend hours just looking at the ways it changes shape, and reflects the light. I think someone that was blind, could probably solve it, if they knew the solution.

{Mau and Godofredo, then raise up behind Lester, whom is curled up into a ball, and sleeping.}

Mau: It is such a shame, I was not able to show Liza my Fatal Laughter.

Godofredo: Well, at least we know that Lester isn't going anywhere, he's sound asleep. If he stays asleep he'll miss the end of the show. Maybe we should wake him.

Mau: Leave it to me....

{There is then a loud pitched guitar type noise, and Lester is seen running away from the camera, and into the distance. As he leaves, his tail knocks over Mau and Godofredo. Nino startled by the sound tosses the ball into the air, and Adelaide swoops in to catch it, and then flies to a distant table. The kids then run into view, with their translated messages.}

Maca: Look Mr. B, we solved your puzzle message. It says. "Tune in tomorrow".

Baba: Mine says, "At the same beak time".

Sancho-Esteban: This last one say, "And the same beak channel".

Beakman: Bada-Bing, Bada-Bang, Bada-Boom. That is correct. Here's another autographed picture, and certificate. Don't look so sad Nino you still have your Beakman Challenge!!! Certificate.

Nino: Yes it is vary nice of you to have signed it. What does it say down at the bottom, it looks like a barcode, or something?

Beakman: Ahh, one last puzzle for you, my friend. Tilt the paper away from you, and you should be able to read it.

Nino: It says "Zaloom".

Beakman: And it was personally autographed just for you, look on the back.

{Nino then turns the paper over and tilts the paper again.}

Nino: It says "and Cassio".

{Beakman then looks over Nino's shoulder at the piece of paper. With both of them looking at the camera, they both wink at the viewers.}

{Fade to black, then slowly fade back in, to reveal that the penguins are now wearing glasses, in



front of a studio made, igloo home.}

Don: What do you think of these color corrective glasses, Herb?

Herb: I don't see any difference, you still look black and white to me Don.

Don: Maybe they'll help us find some cute female penguins. After all don't you think they make us look cool?

Herb: We're penguins, we're always cool. But sadly, we aren't as popular with the females of our species.

{The camera turns slightly to the side, and shows a shelf with shoes on it.}

Tap: Can you imagine that, they want to be hip, and cool by wearing sunglasses.

Flap: It takes more than that to be cool. It requires dedication, attitude and a bit of that special magic from a person's personality.

Everyone: After all, glasses aren't magic, they're science...

{The staff credits then roll.}

*{Story concluded in part 6...}*

<https://www.facebook.com/BeakmanFans/photos/a.1097547883756862/1537908743054105>

## Introduction to the sixth story.

*{The English version, and Portuguese version were  
originally posted on May 20, 2017.}*

It's been six long and fun filled years, since I first combined the two worlds of Castelo Ra-Tim-Bum, and Beakman's World. Hopefully everyone has learned a little bit of new information about the world around you. Here it is the final story of the double trilogy. We all hope that it fills you with a sense of wonder and amazement, as well as gives you a better sense of understanding about how magical the world truly is. We've placed the characters onto the stage, and now it is your turn to let your imagination give them life once again. To the cast and crew of both shows, to the memory of Jok Church, and the creators of the "Castelo", Flavio de Souza and Cao Hamburger, we dedicate this last story.

If you want to read the original Facebook postings of the stories, here are the links to the English version, and the Portuguese version that Otavio translated.

### *English version.*

Beakman's World, Episode 94: Friends, Beakmania & Family

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<https://www.facebook.com/BeakmanFans/photos/a.1097547883756862/1537908743054105>

### *Portuguese version.*

O Mundo de Beakman, Episódio 94: Amigos, Beakmania & Família

\*

<https://www.facebook.com/CasteloRaTimBumEntusiastas/photos/a.1539576972950499/2567272053514314>

*Beakman's World:  
Friends,  
Beakmania &  
Family  
{Episode 94}*

By Tyler "Teary Eyes" Anderson

Translated by Otavio Almeida



This is the sixth and final story in a series of Castelo Ra-Tim-Bum, Beakman's World stories. The accompanying image features the many characters, and cast of the television shows, which appear in this story. In the original trilogy, the Beakman's World character's traveled to Brazil. In the second trilogy the "Castelo" character's traveled to California to visit Beakman and his laboratory crew. If you've missed the previous 5 stories here are links to each of them.

### *English version.*

Castelo Ra-Tim-Bum/Beakman's World, The Complete Fan Fiction Trilogy

\* <https://archive.org/details/CasteloRa-Tim-BumBeakmansWorldTheCompleteFanFictionTrilogy>

\*\* Stories included:

1. Castelo Rá-Tim-Bum: Reunions {Episode 91}
2. Castelo Rá-Tim-Bum: Friends & Family {Episode 92}
3. Castelo Rá-Tim-Bum: Happy Endings {Episode 93}

\*\*Beakman's World/Castelo Ra-Tim-Bum, The Complete Second Fan Fiction Trilogy

4. Beakman's World: Episode 92. Foreign Relations, Beakmania & Fluid Motions

\* <https://www.facebook.com/BeakmanFans/posts/924363684408617>

5. Beakman's World, Episode 93, Sight, Beakmania & Sound

\* <https://www.facebook.com/BeakmanFans/posts/1171828526328797>

### *Portuguese version.*

Castelo Ra-Tim-Bum/O Mundo de Beakman, A Trilogia Completa da Ficcao de Entusiasta

\* <https://archive.org/details/CasteloRa-tim-bumOMundoDeBeakmanATrilogiaCompletaDaFiccaoDe>

\*\* Stories included:

1. Castelo Rá-Tim-Bum: Reuniões {Episodio 91}

2. Castelo Rá-Tim-Bum: Amigos & Família {Episódio 92}

3. Castelo Ra-Tim-Bum, Finais Felizes, Episodio 93

\*\* O Mundo de Beakman/Castelo Ra-Tim-Bum, O Segunda Trilogia Completa de Ficção de Entusiasta

4. O Mundo de Beakman: Episódio 92. Relações Estrangeiras, Beakmania e Movimentos de Fluidos

\* <https://www.facebook.com/CasteloRaTimBumEntusiastas/posts/1998738060367719>

5. O Mundo de Beakman: Episódio 93, Visão, Beakmania e Som

\* <https://www.facebook.com/CasteloRaTimBumEntusiastas/posts/2230561500518706>

If you want to read this story in Portuguese here is the link:

\* <https://www.facebook.com/CasteloRaTimBumEntusiastas/posts/2567284390179747>

{Fade in from black.}

Don howling: Owww, Owww

{Zoom in to show two wooden planks nailed together, with the words "South Pole" on them. Next to that a igloo, behind it a double door refrigerator, with ice maker dropping ice onto the floor.}

Herb: What happened Don?

Don: Oh, I dropped the hammer on my foot, when I was putting up our "Home sweet Home" sign.

Herb: But Don, it says "South Pole".

Don: Ahh, that's true, my penguin pal. But that's only on the side facing the cameras. The backside, here says "Home", on both sides, and "Sweet" down the middle.

{While talking, he turns to look at the backside of the sign, slips and falls.}

Herb: Are you alright?

Don standing up: Yeah I'm alright. I'm just not used to this manufactured ice on the floor, it's super slick. I know that Beakman has done his best to make us feel as if we are at home.

Herb: Speaking of Beakman, I think you woke him up with all your howling. But I guess it's almost time to start the show anyway.

Don: I'm all dressed up, and ready to go.

{Just then he his feet can be heard as if running in place. He then slips again, and bumps the sign, it begins tipping and he tries to catch it.}

Herb: Maybe we should just sit here quietly, while the show begins.

{The sign then falls over along with Don. There is then a loud crash. Beakman then moves into

the view of the camera, looking worriedly down at the floor, and then looks at the camera.}

Beakman: Fast Fact, penguins have the same number of bones in their wings as other birds. But their wings are used as flippers to swim. For this reason, some of their bones are fused together, and are more stiff. Making the bones less likely to break, that's a good thing too, because ohh that's got to hurt.

{Beakman then looks back at the floor, and covers his eyes as the opening title sequence begins. From the overhead speaker comes Josie's voice.}

Josie: Dr. Liza, Nurse Phoebe please report to the ER, we have our first patient of the day.

{The camera then moves across the Information Center, and shows Josie putting away her phone, and behind her the children are busily putting away their sleeping bags.}

Josie: Come along children, your help is needed at the ER, Emergency Room.

{The children, and their parents, follow Josie. As they walk past Zula the girl with blue skin, stops and admires Beakman's coat.}

Zula: Great suit Beakman, I have always loved the color green. It matches the color blue well, when I'm not wearing blue my second choice for clothing is green. I'm a bit of a seamstress myself.

Beakman at work desk: Thank you Zula, you have a wonderful fashion sense also. That gives me a great idea for our newest topic. With everyone busy already. I think it's about time I get to ask one of my own questions. As you know I've been traveling around the world giving my science demonstrations. {Holds up forks balanced on a tube, and then a green Beakman Bucket.} I've been to many conventions, and one thing that always amazed me, were the costumes they created for these conventions. So I began asking myself. {Beakman raises hand with Beakman ventriloquist dummy on it. The mouth of puppet begins moving.} How did they make those

costumes, and how can I make one myself. Good question Beakman, I say to myself. In fact, did you ever see the old Halloween costume of me?

{Image of costume appears on the screen. Meekman screams, raises his hands and runs away. Puppet Beakman covers his eyes, and looks away.}

Beakman: There are endless possibilities on making costumes. Maybe you want to dress up for Halloween, the Carnaval do Brasil, or perhaps Mardi Gras, these last two words are French meaning 'Tuesday Fattening'. In the olden days, you either had to know how to sew, by interlacing a thread through a cloth, or a animal's skin. {He then picks up a needle and tread and begins sewing a piece of cloth.} This is a processes dating back to the Paleolithic Era. A different way to create garments and baskets is called weaving. Instead of one solid substance, and one thread you simply use two threads, or strips of items like tree branches. By interlacing them like this. {He then interlaces his fingers vertically, and horizontally.}

Morgana then slides her head into the view: While still early in prehistory, a devise called a loom was introduced. Allowing the weaver to hang their threads, interlace, and tighten the threads more firmly into place. This was before my time.

{She then holds up a stick, with threads hanging down. Beakman struggles to untangle his hands. He then picks up a thread, and slides it quickly between the hanging threads.}

Beakman: In the 1800's various sewing devices were invented. This made sewing much faster.

Morgana: I witnessed those early sewing machine being created. Their popularity, was similar to the popularity of mobile phones today.

Beakman: Here is one of these machines. {He and Morgana then walks over to a large table.} The early sewing machines were large machines that required entire tables to hold them, as well as the large amount of fabric that was needed. Most sewing machines still have the same parts as these olden ones.



{Morgana then opens the lower compartment showing the needle, and the thread looper. She then stands up.}

Beakman: They either had a hand crank, which restricted one of the user's hands, or they could also use a foot pedal. These were later replaced with motors during the industrial revolution.

{Beakman then hands Morgana a thread, and cloth, while she holds one end, he places a needle through it. Then Morgana loops the thread around with one finger, as Beakman randomly placed the needle through the fabric, and she busily tries to find it, and loop the thread around her finger before he removes it from the fabric. Beakman then throws the cloth to the side, and rushes over to the table. Morgana gets pulled away by the cloth, and a crash is then heard.}

Beakman: Recently sewing machines have gotten as small as these. {He then holds up a miniature electrically powered sewing machine that fits in the palm of his hand.} It can even make many different styles of stitches.

{Adelaide then flies down to the floor.}

Adelaide: Morgannnaaa, are you alright?

Morgana with a hand on her head, nods slightly: Yes Adelaide, I'm fine. But these science demonstrations can be a bit dangerous. Next time I visit, I think I'll bring padded protection. Let's go check on the children.

{Lester is then seen from behind as he sneaks away. Beakman then looks around for his next assistant. And finds Nino, also trying to sneak away.}

Beakman: Nino my friend, and fellow inventor. How are you? Would you like to help me with my next demonstration. It is all about fabric adhesive, and costume building. Don't worry there

will be no needles involved. Only these blunt tipped scissors.

{Beakman then drags Nino to the dinning table where a white shirt, scissors, sheets of fabric in various colors, and a glue bottle are arranged on a table.}

Beakman: Just stand here for a moment. I am going to try and make a copy of your suit using just these fabrics, and this glue. You'll be my model, just stand here, and extend your arms, please.

{Beakman then turns his arm this way and that, looking at all the patterns on Nino's sleeve. He then goes over to the other arm, twists it this way and that, as he examines the various colors that make up the shirt. Nino makes facial expression of being in pain, but says nothing. Beakman then returns to the table and uses the scissor to cut strips of cloth.}

Beakman: Did you know that scissors are a invention only a few thousand years old. Before that people had to use cloth cutting knives, like this.

{He then pulls out a knife from under the table, and shows it to Nino. Nino gulps, and his eyes begin to grow wide. Beakman then puts the knife away.}

Beakman: Back in the early days people could use two knives to cut cloth. But several thousands of years ago, someone realized that they could use a thin piece of metal. Bend it around to the point where the two pieces were almost touching. Sharpen both ends, and angled them so that they rub up against each other, when the bent part of the metal was squeezed. That is the origin of our modern scissors. The fulcrum... Rounded part was later replaced by a bolt, rivet, or even a screw. Oh, by the way, you can lower your arms now. I now know the pattern I want to use.

{Beakman then glues the colored strips onto the white shirt. In a quick time lapse sequence.}

Beakman: Without sewing, we could glue these strips together into any pattern without the

underlying shirt. But I've found this process is much quicker. Just like the sewing, this glue interlaces the threads, like this.

{He then interlaces his fingers again, and shows how they can still move while being interlocked.}

Beakman: There, I'm now finished. What do you think Nino, is it a good copy of your shirt?

Nino: Wow, it looks just like my shirt. {He holds it up to his own shirt sleeve, and turns it showing how the colors, and size of the stripes match.}

Beakman: If you want I could also make you a robot suit, out of plastic tubes, using glue, or perhaps even rivet, which are used to join metal parts together. We could even make you a suit that looks like Etevaldo's. I'd just need to go and get the hot glue gun, and a few plastic tubes.

Nino: That's enough science demonstrating for me today. Would you like to hear the song Lester has been teaching me to play on the guitar. We are becoming very close friends, we have many things in common. Since I learned to play guitar Dina has also begun to pay a lot more attention to me. When I'm around her, I feel braver, as if I can accomplish anything. Now that I think of it, I would like to try to use that fabric glue. Maybe I could make Dina a new dress. She'd be really proud of me, if I did that for her.

Beakman: Sure, you can use as much as you want. Here are some more fabric sheets, and the scissors. What are you going to make?

Nino: First, I think I'll start with something simple. I'm going to make myself a pirate hat.

{Nino then began folding the cloth like a piece of paper, and crafts a hat. However it started to unfold as he moves it. He then added a bit of glue on the inside, then on the outside.}

Beakman: Maybe you should let me help you with that. Or at least, let me, get you some gloves.

Nino: That is not necessary. I've made lots of these out of paper, and I just need a bit of glue to keep it from falling apart.

{He then folded, and glued each of the edges so they would not bend. Then he set it down on the table to let it dry. But it gets stuck to the table. He then tried to pull the fabric off, and it got stuck to his hands. Beakman then puts on gloves and tries to help Nino. But as Nino moves the cloth also gets stuck to Beakman's arm.}

Beakman: We're going to need help to get out of this mess. Let's head over to the nurse's station, and see if Phoebe is still busy.

{Fadeout to black, then fade in to the Medical Emergency Room.}

Herb: Are you okay Don? With all those bandages on, you must have broken something.

Don: I was very lucky, I didn't get any broken bones. However I got a couple of bumps, and many parts ache. The doctor immobilized my wings, and told me to stay off the ice for the next few days.

Dr. Liza: And don't forget your lollipop. {She then places it into the bandage on Don's wing.}

Don: Have I missed much of the show?

Herb: Nope, I think you hit the floor running, so your still in time to watch most of it.

Don: The way I'm feeling I couldn't run. Even if a entire truck load of anchovy pizzas was waiting

for me.

Herb: Maybe we could get that nice Bongo guy to make you a special anchovy pizza. To help you get better. I hear he's an expert in the pizza business, back in Brazil.

Don: Not only are my arms and feet sore, but my stomach aches. Let's go and find something to eat, you lead the way. Penguin pal of mine.

Herb: That's the attitude we need, let's get going.

{Herb then slaps Don on the back, and Don groans in pain. As they waddle away. Don has his wrapped wings out stretched, and he was groaning like a movie mummy. Just then Beakman and Nino arrive, while being stuck to each other. They then look in horror as they see the children with cut arms, and faces.}

Nurse Phoebe: Just a minute we're almost done here. {She then brushes some liquid onto Maca's arm.} There now, let that dry for a few minutes, and it should last the rest of the day.

Beakman: What has happened here? Was there a war I haven't heard about? How did the children get all these injuries?

Josie: Don't worry boss. They heard you talking about costumes, and they saw all these bandages and colored liquids, and they all wanted to dress up like Zombies.

Beakman: Kids these days. What ever happened to dressing up like fairies, pirates, or even super heroes?

Morgana: What about dressing up as witches?

Nino with his arm now glued to his head: I want to be a sorcerer when I grow up. I'm a apprentice already, you know.

Meca holding up his arms, with long ghoulish cuts on their backs: Look at my arms, these injuries look super realistic. Some of the tissue paper can actually be bent, and stretched like real skin.

Nurse Phoebe: Yes, you also can make fake wounds with glue, tissue paper, or paper tape, wax, and paint, makeup, pen ink, and other types of crafts. I simply draw the outline of the wound like this. Apply some glue to tissue paper, and then roll it into a long flat tube. Then I place it around the outline, then fill the center with some liquid latex. Or if you don't have any of that, we can also use flour, and petroleum jelly. We then add makeup, paint, or even just pen ink to colorize the outside, and inside of the wound. Darker blues, and blacks around the edges, and redder towards the center. I then use a finishing spray to keep the makeup, or paints, from making a mess on your clothes.

Penelope then rushes in: What have you done to my poor little grandson Sancho-Esteban? He has a saw blade sticking out of his head.

Sancho-Esteban: Don't worry grandma Penelope, it is only makeup. This disk is really only rubber, and it is glued to the side of my head, with red paints, and latex. And it doesn't even get my hat dirty.

Biba: Look at me. I truly have a smile that goes from ear to ear.

{She then wipes away fake blood from the side of her cheek. Penelope then looks worried, but seems satisfied that nobody is hurt. Then she intentionally looks at the television camera, as if seeing it for the first time.}

Penelope: Well as long as everyone is okay. I guess there is nothing to worry about. And by the

way, thank you, to all those lovely people out there in the audience that sent me greetings while I was on my European vacation. I hope you liked the instant messaging images I posted of my visits. I even enjoyed my visit with my cousin Carlota Teodoro. Unlike me, she always enjoyed wearing the color yellow, and practicing her gymnastics. Thank you again to all the lovely Pinkmores out there. I hope to return home to Brazil soon, and see you all again on my TV show, and YouTube channel. Until then kisses and hugs.

{She then begins blowing kisses at the television camera. Beakman then notices the ring on her finger.}

Beakman: Can I see that ring of yours for a few minutes?

{Beakman then lifts a similar ring from his pocket, and shows it to her, and then winks. Her husband Ulisses then looks worried as she takes it off and places it in Beakman's left hand.}

Nina: Mother, maybe that's not such a good idea.

Penelope: Nonsense my dear, if you can't trust someone on television, whom can you trust?

{Beakman then takes the ring in his right hand, and puts it on the table, while he places the left ring into his pocket.}

Beakman: Some people say that diamonds are forever, but is that true? With a little bump we should be able to get this diamond out of this ring. {Thump against the table.} Okay that didn't work, perhaps a screw driver is needed. {Snap.} Don't worry I can glue that back together later.

{Ulisses then faints. Dr. Liza and Phoebe take him over to the examination seat. Penelope follows them.}

Beakman: Now that we got the diamond out of the ring, let us see what it can do.

Pedro: I heard that diamonds can cut glass, is that true?

Beakman: Well, let's test that theory. There is a piece of glass on this sign, let's give it a scrape and see what will happen. {Scrape.} Wow, now that's a scratch that's going to need some polishing to remove. Next diamond related question, please.

Biba: Are diamonds made of coal?

Beakman: Well, that is difficult to say. Because both are made of carbon. They can also be formed from oil, or anything else made of carbon. What is important is the pressure, and heat that allows the carbon atoms to crystallize into a hard structure. This usually happens very deep in the Earth's surface.

Penelope holding her husband's hand: But I remember hearing that several planets have "diamonds raining from the sky".

{She waves her hand as if she is skeptical and that her fingers are raining diamonds wiggling their way down onto her head.}

Beakman: I think this information mostly comes from a series of scientific papers, and lectures. In a 1981 article of the 'Nature' magazine, Marvin Ross proposed the idea of Uranus and Neptune, having diamonds. Then later in a scientific paper written by Kevin Baines, and Mona Delitsky, they discussed the possibilities that Saturn and Jupiter also might have raining diamonds. Their paper was presented at the "45th annual meeting of the Division for Planetary Sciences" in 2013. We know that space rocks have miniature diamonds in them. In fact we have found diamonds older than our solar system.

Maca: If a diamond is forever. Can a diamond be destroyed?



Beakman: That's a great question, let's give it the good old college test. First of all the shatter test. Each type of crystal is made of a lattice pattern of atoms. Sometimes other elements get inside the structure and weaken one of its bonds. Here is an example of how a diamond's atoms are arranged, using a molecular modeling kit called Snatoms. Just like real atoms they stick together with the electromagnetic field. Now if we hit the real diamond with this hammer, the crystal structure should be broken, and the atoms will be pulled free from their magnetic fields. Josie could you please distribute the safety glasses to every one?

Dr. Aborinha, as Director Jay Dubin: Stop right there. Cut, cut. This scene is stopping here and now. Destroying a precious jewel, and possibly causing harm to these poor little kids will not be permitted.

Beakman: Perhaps your right.

Dr. Aborinha, as Director Jay Dubin: Of course I am right, I'm the director. You should give me the diamond, and we can continue onward with the show.

{Beakman not listening, bends downward, and picks up a torch, from below the table. He then sets the diamond on the table, and uses a flint striker to light the torch.}

Beakman: Yes, yes, yes. Burning it would be much more visually interesting. Remember children do not play with fire, and do not try to do any of these experiments, without adult supervision.

{Dr. Aborinha then tries to take the diamond. Beakman picks up the diamond before Aborinha can reach it. He then holds it over his head, looking at the light passing through it. Aborinha tries to grab the diamond out of Beakman's hands, and it gets knocked out of his hands.}

{The scene then changes to Ulisses. Morgana lightly splashes water from a bowl, onto his face. Everyone then turns to look at Ulisses. Ulisses then notices the diamond flying through the air. He then points at the diamond. Everyone then turns and looks with mouths open, as the

diamond passes through the torch's flame in slow motion. Ulisses eyes grow wide. The diamond catches on fire, and like a glowing meteorite crashes onto the table, still glowing.}

Beakman: As you can see it can catch on fire, but it won't burn very well without a good supply of oxygen, and there isn't enough of that in the air to keep it burning on its own.

{Beakman then uses some tongs to pick up the diamond. Ulisses, Aborinha, and everyone else then sighs with relief. Beakman then sets down a small bottle of liquid oxygen on the table. With a bit of dexterity he pulls off the lid and drops the diamond inside. The bottle glows white hot, and then eventually the light fades. He then gets a large tray, and pours out the liquid. There is no trace of the diamond. Ulisses then faints again.}

Beakman: As you can see after placing the diamond in this liquid oxygen, the diamond has been completely burnt, and no carbon remains.

Dr. Aborinha, as Director Jay Dubin: I can not believe you did that. That was a valuable piece of jewelry. The money that could have been made from it... If she would have wanted to sell it... I would help her sue you. If it will help her get the money she lost, and with the money we... She will win... We... She could buy this studio.

Penelope: I'm not suing anyone. I trust Beakman, and he had my permission to do whatever he wanted, to the ring.

{Aborinha then lifts the tray, tilting it this way and that way. Frantically looking for some trace of the diamond.}

Josie: Wait a minute, Jay wouldn't act like this. He might stick his head in toilets, and telling us what to do. But you sir are a fraud.

{Josie then she takes the red wig off of Dr. Aborinha's head. And grabs him by the collar.}

Josie: What have you done with our director? Answer me, if you want to live!

Beakman: Josie...

Josie: Okay sorry, a little too intense. Tell us, or we'll make you listen to Mau's Fatal Laughter.

{Mau then begins rising from below the table with a menacing laugh. As he reaches out towards Dr. Aborinha.}

Mau: Mah, haha, hah. Your doom is certain. Your mind will turn to mush, your thoughts will fear the very nature of...

{The scene then switches to Dr. Victor, and Gato Pintado seated on a chair, near the couch, reading one of Beakman's books.}

Dr. Victor: Stop right there, Mau. I will handle this.

{Next to Mau, Godofredo then raises up from below the table.}

Godofredo: We never get to have any fun. Maybe we should go, and see what the penguins are doing.

Mau: Or maybe we could find Patsy's shipping crate, and ride it down the stairs.

{There is then a sound of a series of thumps. As if someone inside a box was trying to hop away.}

Dr. Victor: Well, well, well... Dr. Pompeu Pompílio Pomposo, I thought we had seen the last of you, when we moved my castle to the Memorial da América Latina. But it seems like you have not changed your nefarious schemes. I even hear that you have been bothering Nino's parents, to try and get them to sell their new castle to you.

Beakman: I'd give him more souvenir money, if we could get him to leave. So that we could continue with my show.

Dr. Aborinha: I deny everything. You and that family, take up valuable real estate, and give nothing back to the community. While I increase the value of the properties I buy and sell.

Josie: What charitable organizations have you contributed to?

Liza: How many people have become homeless because of your destruction of their homes?

Phoebe: When have you ever invited a entire city to tour your home? Contributed to the arts, and activities of the city in which you live?

{Dr. Victor then snaps his fingers, and there are two clouds that appear next to him. Antonino, Nino's dad, and Cleopino, Nino's mom appear, with their arms crosses, and staring menacingly at Aborinha.}

Antonino: So this is why we had a few peaceful days at the castelo. He has been over here, pestering someone else.

Cleopino: Let's send him on a one way trip to Antarctica.

{The scene then switches to Don, Herb, Mau, and Godofredo seated on a box watching a

recording monitor of the show.}

Herb: Oh, no I hope they don't send him back to our home. We'd never get a moments of silence with him there.

Don: Don't worry Don. There isn't much land down there for him to sell. It is mostly covered by ice and snow.

Herb: But haven't you heard the Earth is getting warmer, and we could loose all that ice and snow, and then what will happen to our beautiful home.

Mau: I heard that Bill {bleep} said that the world is on fire.

Godofredo: Did you hear that sound? It happened when you said Bill {Bleep}.

{Everyone in the studio then looks surprised, and embarrassed at hearing such a word.}

Don: There is that sound again.

Herb: Maybe Beakman can explain it.

Mau: While we wait to see if he answers that question. Who wants to slide down the stairs on this crate?

Don, Herb, and Godofredo: I do!

Patsy from inside the box: First, let me out!

{The scene then switches to Beakman, and the Castelo characters facing off with Dr. Aborinha.}

Beakman: That reminds me. Bill...

{Everyone gasps, but he doesn't say the person's last name.}

Josie: What do you think your doing? That's the trademarked name of another television show. We can't use it on this show. Do you know how many rules we'd be breaking, if we mentioned some other show. That would be like me saying. Hi mom! Look, I'm on TV. Oops sorry about that. You know what I mean.

{Josie moves near to the camera, and everything goes blurry, as she waves hello to the people at home.}

Beakman: Anyway... Bill... Wanted me to say "The World's on Fire!" Saying that helps him spread the news, about global warming, and climate change. Some people think we are rivals, but we have even both worked on the same project before. We both contributed to the "Street Smarts" presentation. A educational video about critical thinking. Although, I should warn you, you shouldn't let him borrow your model Earth globe. He might set it on fire.

{Ulisses then wakes up, and starts crying, while Penelope tries to comfort him.}

Morgana: If we had our way, you would never get possession of anyone's home ever again.

Dr. Aborinha not listening: Bill {bleep}. The famous dancer? I remember seeing him on "Dancing with the Stars". I hear he's a rich guy. You actually know him?

Beakman: He's currently in the next studio, working with John Oliver.

Dr. Aborinha: What am I doing here with these peasants, when I could be hobnobbing with stars and rich people. I could win their trust with my musical band Kick Bucket and I could acquire some of their land, and money. Good-bye, to all of you, I have money to make from my new friends.

{Dr. Aborinha then exits the studio. Then from the next studio a sound of rushing water is heard, and Dr. Aborinha lets out a loud scream.}

Beakman: I forgot to mention it, but they are testing out some messy science demonstrations in that studio. But I'm sure he'll be happy to help. Now where were we...? Oh yes we were trying to find our missing director. Hey Ray, can you help us find him?

{A hand then extends from the side of the screen. It points to the side, and then the restroom sign is seen with the words "Occupied".}

Beakman: Ha, ha. I love solving a mystery. I should make a sign to put over the door, "Beakman: Consulting Scientist".

{Beakman then takes the original wedding ring, out of his pocket, and gives it to Penelope.}

Morgana: Welcome to Beakman's World. He lives very much in his own world, similar to that of your son Nino. It is great to see that you both managed to finally find enough time to join us here.

Antonino: Such an interesting place you have here Beakman. It has all manner of scientific oddities. I'd love to explore it.

Cleopino: Where is our lovely son Nino? He hasn't got lost in here has he? We once took him to a hedge maze, and we lost him for a entire day, as he began cheating and trying to break through the walls of the maze.

Nino: I was just testing the wall's strength, and wished to see what they looked like from both sides. Mama, Papa, great to see you here. Come along with me, Lester has been teaching me how to play guitar. He taught me this song called "Rat Suit Ritts".

{Ulisses then wakes up, and Penelope then shows him that the ring is safe. As she puts it back on her finger. He then sits up, and they walk over to watch Lester, and Nino play guitar.}

Josie: Let's get these kids cleaned up people. We got a show to produce here.

{The kids in their zombie make-up, then begin encircling Josie, as if about to eat her. The scene then fades to black. There is then a flashing red light. Then the word "Beakmania" is seen, then the camera zooms out, showing these words are part of a board game called "Beakman's World: Beakmania Game".}

Baba: Sorry I couldn't resist, this is from my collection... It's time to galvanize those thinking gears.

Sancho-Esteban: Get your thought propellers humming, and put your notebooks in their upright position.

Maca: Here he is, the bestest, of the TV scientists. The past, present, and futurist, of scientific knowledge. The one, the only, the Beakman!

Beakman: You dish them up, and I'll spoon them out. Now lets Salsa dance.



{Beakman then dances with hand outstretched with a bowl of salsa sauce in his hand. As he turns the liquid spills and he falls down. Scene then shifts to Josie spinning the envelope drum. Liza then opens the door.}

Envelope drum: Let me out of here! These scented envelopes are giving me a headache.

Liza: Question, do flying fish really know how to fly?

{Animated sign "Myth Busters" appears, with a asterisk behind it, and below saying "Not to be confused with the trademarked television show, of the same name".}

Beakman: Flying fish do not actually fly. Not to be confused with flies that people use for fishing. The fish have large pectoral fins, which allows them to propel themselves out of the water. They then use these fins to glide through the air. Fast Fact: Another animal that also does not fly, is the flying squid. It does not use fins, but it uses jets of water to propel itself out of the water.

{A squid shaped toy then flies up from under the camera, leaving a trail of water behind it.}

Phoebe: But Dolphins and whales also jump out of the water. Why do they do that?

Beakman: Some researchers think that it is to avoid predators. While other people think it is to exercise their muscles, or attract mates. I for one, just think it looks like fun.

{Beakman then jumps up and down, as if breaking through the surface of the water.}

Josie then reads a message: Did dinosaurs ever fly?

Beakman: You may have heard that dinosaurs could also fly. Many of them are known to have feathers, and be early ancestors of birds. But reptiles that fly are usually linked to the family Pterosaur. However it is thought some dinosaurs could glide down from trees, or mountain cliffs.

Biba: Who is the earliest known author?

Beakman: The oldest known writer, which we know the name of is a ancient Egyptian philosopher named Ptahhotep at about 4400 years ago. Another ancient writer we know about is a woman named Enheduanna, she was a poet living about 4300 years ago.

Neneco: My wife always thinks of the best questions. Like why, don't I take out the garbage. Why don't I do the dishes. Will I take her to the movies?

Beakman: Remember that a relationship, and marriage in particular, are about two people sharing in the duties, and joys of daily activities. Speaking of shared work. Those kids are doing a wonderful job, of laboratory assistants. If they ever need a job, I'd be happy to have them help me.

Zula: That seems a bit dangerous. Maybe there are less dangerous professions that the children can do. I know our son Sancho-Esteban loves spending his time looking through the microscope, or gazing up at the stars.

Pedro: I think that is my fault. I have always told him about the stories I wrote, when I was young. They were part of my "Mundo da Lua" series. Little did I realize I'd meet a extraterrestrial, and marry a girl whose family was from the 16th Dimension.

Nina: Beakman, I'm curious about what you know about our Brazilian scientists. And how have they influenced your work? My mother Penelope, has always been such a great reporter, and I've always found it easy to ask these important questions.

Zeca: My wife has always been full of questions, and the need to find answers. That is why I married her. When I was young I was always asking questions.

Maca: Good question mom. Lets see if Beakman can name at least five Brazilian scientists. We children have to suffer, in school to try and remember all the names and places of Brazilian people. But does the rest of the world know these people?

Beakman: A top five ranking of Brazilian scientist is something I think I can do. My first would be naturalist, Alexandre Rodrigues Ferreira. I like to think of his travels through Brazil, as being similar to those of the Lewis and Clark Expedition. He found out many new things about the natural world, and helped to explore the interior of Brazil in its early days of colonizing. Next there is Domingos Soares Ferreira Penna, a biologist, ethnologist, archeologist, whom founded the 'Museu Paraense Emílio Goeldi' research institution and museum. There is also archaeologist Paulo Alfeu Junqueira Duarte, whom fought for the preservation of the cultures of Brazil's indigenous people. Let's see now, that leaves us just two more names, "two" in English, or "dois" in Portuguese.

{Music then begins playing, and the sound of bubbling liquids can be heard. There is then a knocking on the door. Beakman looks around pretending to be confused.}

Beakman: Where was I...? Oh yes my last two favorite scientists... {He then looks around.} There is inventor/physician Manuel de Abreu, whom created abreugraphy. It is a way to examine the lungs, to see if a person has the disease called tuberculosis. Lastly there is João Barbosa Rodrigues, a botanist, one of the greatest in the world. Not only a scientist, and author, but also a artist. He was director of the Rio de Janeiro Botanical Garden, and his specialty was in palm trees and orchids.

{Knocking continues, but it changes to drumming patterns, as the door is repeatedly tapped on.}

Liza: Don't forget one of my favorite Brazilian scientists. Angelo Moreira da Costa Lima, the entomologist, bug scientist. All of the creepy, slimy, gross bugs that he catalogued. Descriptions

that would make your skin crawl. Hehehe.

{The knocking continues, this time two quick knocks, and then a pause, two quick knocks, and a pause. Everyone then joins in, and after the knocks, everyone claps.}

Beakman: Hey, I know this song. Two quick knocks, that can only mean one thing. A visit by my two favorite living Brazilian scientist.

{Beakman then goes over to the door, while walking off screen. Locks are heard clicking, chains rattle, and the sliding of a bolt, are heard. The scene then shifts as the door opens. Two heads from either side of the door then appear.}

Tibio, and Peronio: Ola, Ola, Beakman and friends.

{Then below Peronio, a smaller head appears also wearing a white hat, and scientific uniform.}

Estribo: And Ola, once again. Don't forget about me, and mommy.

{A woman then picks him up and stands, resting him against her hip.}

Peronio: This is my wife Clavicula, and our son Estribo.

{Tibio then raises and lowers his eyebrows a few times, smiles and points.}

Tibio: She is also our cousin, from the Foramen side of the family.

Beakman: Don't worry my twin sister married a rat. I think you met Jax, last time we met in

Brazil. She and Lester also have a child, a daughter. Sometimes I see both her and their daughter running around in rat suits. So who am I to judge. Welcome to everyone, our friends from the Castelo are also here. I think you know everyone. Everyone meet Tibio and Peronio Osso, twin scientist from Brazil.

Everyone: Ola, Ola, and Ola to you little fellow.

Clavicula: Thank you all for allowing us to visit you Beakman. It looks like your home is almost full already.

Beakman: Nonsense, we could fit lots more people in here. Camera crews, studio personal, dancers, acrobats. People running around in silly suits. If you can name it, we've probably had it in this studio at one time or another.

Sancho-Esteban: I was hoping after we finish clapping, that we could also sing "We are the Champions". Those two pieces of music always went together really well.

Beakman: One of my favorite pieces of music is by a female singer, and composer named Juliane Reichardt. She was a Bohemian, and I'm sure she had a rhapsody, or two made about her life. By the way the word rhapsody comes from the Greek words for a reciter of a epic poem. It has come to mean, anything that has several smaller parts that are all apart of a bigger epic piece.

Baba: Mr. Beakman, I was wondering if you would be willing to autograph my board game version of your epic Beakmania challenge.

Beakman: Of course my dear. Anything for a fan. Did you know that some of the two oldest board games were from ancient Egypt, the first named Mehen, after their snake god. It featured a round board that coiled in towards the center. And the second was called Senet, both games are thought to be about 5000 years old. There is also another ancient game called The Game of Ur, which is thought to be about 4600 years old. But if you want to play a ancient style game that is still being played today, the game Backgammon, or Gamão in Portuguese, is still popular.

Its origins date back to about 5000 years ago.

Tibio: Ahh yes, I loved playing that game, I would always beat Peronio.

Peronio: You did not. I won a few games.

Tibio: Only the games I let you win.

Clavicula: Gentlemen remember what we agreed upon. No arguments in front of young Estribo.

Tibio, and Peronio: We're sorry.

Neneco: I remember reading about one famous scientists here in the USA. His name was Benjamin Banneker, and he was the son of a freed slave. He was born before the United States was even a country. In that time he became a famous writer, scientist, engineer, and astronomer. He also was a civil rights supporter, writing numerous correspondence on the subject. I wish my daughter could also get one of his autographs, but sadly much of his work was burnt while it was still in his house, shortly after he died.

Tibio: I've read those correspondences, and the almanacs that he wrote. There was some good science there. Not many people during that time, could predict the eclipses of the moon.

Maca, looking down at young Estribo: Mr. Beakman, there is still one question I'd like to have answered.

Beakman: Okay, young man. What is your question. No question is too big. No subject out of bounds. No fact that I will not try and give you a detailed explanation.

Maca: Where do babies come from?

{Beakman's jaw drops and he looks down at Maca, with a perplexed look on his face. Liza then comes over and lifts his chin, so that his mouth closes.}

Liza: Your slipping boss. Even I saw that one coming. You've opened the door for it. Let's see if you can bring it through.

Beakman: Well, maybe this isn't the best time for this subject... With all these children here, and the time we have remaining. A detailed explanation, could be...

Tibio: Yes come on Beakman, it is about time children had a simple and easy to understand explanation of how babies are made.

Peronio: Yes, its about time for... Drum roll please... "The Tibio and Peronio Challenge"!

Tibio: Yes, Beakman we challenge you to give the best explanation of how babies are made.

Beakman: Well... If your a kangaroo, babies come out of the pouch. A baby kangaroo is called a Joey. And ummm...

Phoebe: Don't worry boss you've got this, you can explain stuff in ways nobody else could.

Beakman: Okay, challenge accepted. But here, we allow visitors to proceed first.

{Everyone then looks at Tibio and Peronio. The parents warningly shake their fingers at them. As not to go into too much detail, or say things that might be embarrassing.}

Peronio: Well you see boys are different then girls, and those differences are... Now you explain that part Tibio, your much better with the technical stuff.

Tibio: Well, guys and girls get together and... This is going to be harder then I thought... All human females and most other animals are born with eggs inside of them... And...

Peronio: Shouldn't we call it a ovum? It is a single cell at this point. We should only call it a egg when it is fertilized.

Tibio: Thank you, we should be precise. We don't want to confuse people.

{Scene shows the parents, and children looking confused, and lost already. Beakman leans back, folds his arms, and smiles.}

Peronio: Guys are different then girls. They don't have eggs... Or Ova.

Tibio: I think your confusing them. Ova is plural for the ovum. The guys can then fertilize the ovum.

Clavicula: And how is that done?

Peronio: It's time for a demonstration.

{The parents then look wide eyed. While the children move away and cover their eyes. Beakman puts his hand on his forehead, looks at the ground, and shakes his head. Peronio then walks over to the refrigerator, and takes out a egg.}



Art Burn from behind the camera: Hey, get out of my kitchen!

Tibio: This is a egg, but we are going to change it to a ovum. Well not really. We're just going to pretend. Well... You'll see. First we take the egg. Then we place it in this bottle of vinegar. Clavicula, can you bring me the bottles of vinegar? She was our scientific assistant, before Peronio and her got married. She knows how to do many of these type of science demonstrations.

Peronio: After the egg has sat in the vinegar for about a day it will look like the egg in this second bottle. We then pull the egg out, and the shell will then fall away easily with a little bit of rubbing. We now have the membrane of the egg. This is what I want you to think of as the ovum. The ovum is a single cell, with no life. Then a guys fertilizing sperm swims through a opening inside the woman called the cervix. It then tries to get inside of the ovum. We will know demonstrate that part of the process.

{The children look away, and the parents look fascinated, as Peronio brings out a long syringe needle with blue coloring in it.}

Tibio: Clavicula is holding the ovum. And inside the syringe that Peronio is holding, there is a blue liquid, which we will call the sperm. As the sperm enters the cell. The inside of the cell begins changing. The ovum has now become a egg, and is now fertilized. Congratulations they're going to have a baby!

Clavicula holding the egg to her tummy: Who's a good baby egg? You are. I'll keep you warm, and safe for nine months, you'll develop into a embryo, and then a fully formed baby. Before I finally give birth to you. Who's my little Estribo? You are.

Peronio: Then nine month later Estribo was born, and he has continued to grow.

{Tibio, Peronio, and Clavicula, then swing their arms foreword, as if laying documents on a invisible table, as bend down towards their audience, symbolizing that their demonstration is

now finished. Then everyone claps their hands.}

Beakman: Very good, you skipped a few topics here and there, but it was a very good demonstration.

Josie: I wonder if it the style of the demonstration, is related to the event that happened, when Tibio was kidnapped by bird, when he was younger. I remember they wrote about that event in their first book. It had lots of pictures, drawings and scientific notes.

Beakman: You might want to get rid of that egg before it breaks.

Clavicula: Yes, I forget that it is just a egg membrane. And is very delicate and might break.

{She then placed it on the table, as she did this the egg bounced a little. Peronio then tries to pick it up, and it breaks, leaving blue egg fluids on his hands.}

Beakman: Fast fact, most eggs sold around the world are unfertilized eggs. Only fertilized eggs will grow up to become chickens. If farmers did not take the eggs, the eggs still wouldn't grow into young chicks.

Phoebe: Okay, Beakboss, it's your turn to see if you can give a better demonstration on the subjects of babies.

Beakman: Prepare to be astounded. I'm going to show you some delicate skills that I have been practiced for many years. The Amazing Bubble Man himself, taught me this demonstration. If Louis Pearl is watching this, somewhere on his world tour. I hope I make him proud. I must prepare myself, both mentally and physically. Josie, I need the water bowl and bubble solution. Liza, I need the straws. And Phoebe I need the two mist machines. I then need, absolute silence...

{The camera then switches to Nino playing guitar, with Dina, seated near him. Lester's back can be seen, as his hand is placed on his chin, which is bobbing up and down in time with the music. One rat foot is also tapping out the beat.}

Antonino: I think the others would like for you to stop Nino.

Nino: Sorry daddy-o, I need to finish this song, before I forget the chords. I won't be too long, I'm in the groove now.

Cleopino: I think we should let Nino finish his concert. I will go and have a talk with Beakman. After all, Nino was doing this first. My son the musician, that's almost as good as having a doctor, or sorcerer in the family.

Dina: Nino, your my dream guy. Play louder for me, please. I just love to hear you play.

{The scene then switched back to the laboratory side of the Information Center. With Cleopino whispering to Beakman. Beakman then adjusts his collar.}

Beakman: Well, I guess I'll be performing this demonstration with musical accompaniment. How hard could that be? I've seen Louis do it plenty of times. First I make a large bubble on the surface of the water. This is the ovum, yadda, yadda, yadda. Bada-Bing, Bada-Bang, Bada-Bum. This mist is the sperm, or activation of the ovum into a egg, then eventual transformation into a baby. Hopefully that part is easy to understand, once you have seen Tibio and Peronio's demonstration. But here is where it gets interesting. Each sperm only activates one ovum, or bubble. And as they interact, the ovum and sperm have a mixing, and the result is either a male, or female egg. We will show this by blowing another smaller bubble inside the mommy bubble. Now with the baby in the mother we will now activate it, this time we will make a girl. With this pink mist.

{He then dips a wet tube into the inner bubble and pink mist is released inside it. He then blows a second bubble inside the big bubble.}

Beakman: This time we'll make it a boy. Look everyone, we have twins. It is me, and my sister Jax as babies, someone take a picture quickly.

Ulisses: This is the thing I'm best at doing.

{He then takes photographs of the bubbles from every angle, with his pink camera.}

Beakman: 'But', I hear you say, 'What about identical twins how are they born?' I will blow another bubble, and this time after I fertilize the egg, before it gets very far into development, I will then split it, like this. We now have two identical baby boys. We'll name this one Tibio, and the other one Peronio.

Tibio: Hehehe, your always "The other one".

Peronio: Mom liked me better, because I wasn't getting into as much trouble as you.

Clavícula: Shh, he asked for silence during his demonstration. Remember your promise, no arguments.

Beakman: As you can see we now have quadruplets. Maybe in some multiverse, me, Jax, Tibio and Peronio are all related. In this way we are all born, out of our mothers.

{He then pops the bigger bubble.}

Beakman: As you can see I described not only how babies are born. I also explained identical twins, and fraternal twins. If the two identical twins hadn't managed to separate fully, they could have grown together into conjoined twins. Where the two babies grow connected together. It might also be possible that the two eggs come together after being fertilized causing the same type of connection. This is usually a difficult experience for the two children. I think I can say with certainty, that for this challenge there is no winners,

or losers, because everyone that learns something new is a winner in my book. What do you think Tibio, and Peronio?

Tibio, and Peronio: We agree, people that learn together win together. The contest is a tie.

Estribo: I also agree.

{Everyone then laughs, and pats the scientists, and their little helper on their backs.}

Beakman: I would like to thank Nino for the musical accompaniment. Please give him a round of applause.

Nino: I want to thank my Mom, and Dad for being here. They traveled a vast distance, through an almost endless void, just to return home to me, and build our new home.

{Beakman then walks over to Nino.}

Beakman: Speaking of great distances... Did you know that around the planet Saturn there is a disk called the Phoebe Ring? It is composed of small particles of dust, from impacts on the moon Phoebe. The ring is so large that if we could see it with our unaided eyes, it would stretch the distance of two full Earth moons across the sky. While the planet Saturn itself would only appear as a small dot, at the center of that ring.

Phoebe: You know that there is a expression for moments of amazement and wonder, such as this very moment.

Liza: Bada-Bing, learned something new.

Josie: Bada-Bang, for science we sang.

Beakman: Bada-Bum, Bum, Bum. With our friends from Castelo Ra-Tim-Bum.

{Beakman and Nino then put their arms around each other's shoulders.}

Beakman, and Nino: Together with Zaloom and Cassio.

{The scene then switches to Don, Herb, Mau and Godofredo laying at the bottom of the stairs, near the boards of a broken box.}

Herb: So what did you think of the show Don?

Don: I learned that science can be dangerous, and messy. My feet and wings are so sore, I don't think I'll be able to move for a week. But I enjoyed myself. It was great being able to spend this time with Beakman.

Mau: Wow, what a crash. Did you see the way the box just broke into hundreds of pieces when we landed? It was a bit painful, but I was correct. That was the fastest way to get down the stairs.

Godofredo: Oh, my head hurts. I never want to do that again. I wish I would have used the sliding pole, like Beakman, and fire fighters do, when they travel from one floor to the next.

Patsy: I'm glad I managed to get out of that box, before you guys used it for sledding. I warned you guys that this place was dangerous. Now I suggest we all get out of here before something else even more dangerous happens, like the ceiling crashing down on us.

{He cautiously looks upward, as he runs off screen, as the credits begin to scroll.}

# The End.

"Bonus Beak-  
Features"



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