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Coto



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Title Coto

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Description Coto Research Center

Subject Performance Analysis; Science

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Coto Research Center: Revolutionizing Sports Analysis

The Coto Research Center, co-founded by Dr. Gideon Ariel, is a unique sports analysis facility that uses high-speed cinematography and computer bio-mechanics to analyze and improve sports performance. The center uses a sophisticated system developed by Dr. Ariel to quantify human movement, applying Newtonian physics to the human body.

The process involves filming the athlete's movements, then converting the film to computer language by tracing all the joints. This results in stick figures that allow for the analysis of all physical forces, revealing what the athlete is doing right or wrong. The software can also create three-dimensional analyses from two cameras, allowing for viewing from any angle.

The center has worked with various athletes, including golfers, football kickers, and the United States Olympic women's volleyball team. The analysis has led to significant improvements in performance, such as a football kicker increasing his kick strength by 30% after learning how to land on his left leg to transmit energy into the right leg.

The goal of the center is to help everyone become a "gold medalist in his own body", optimizing each person to their maximum ability. The center has found that most people are not working anywhere near their maximum efficiency levels and have much more potential than they realize.

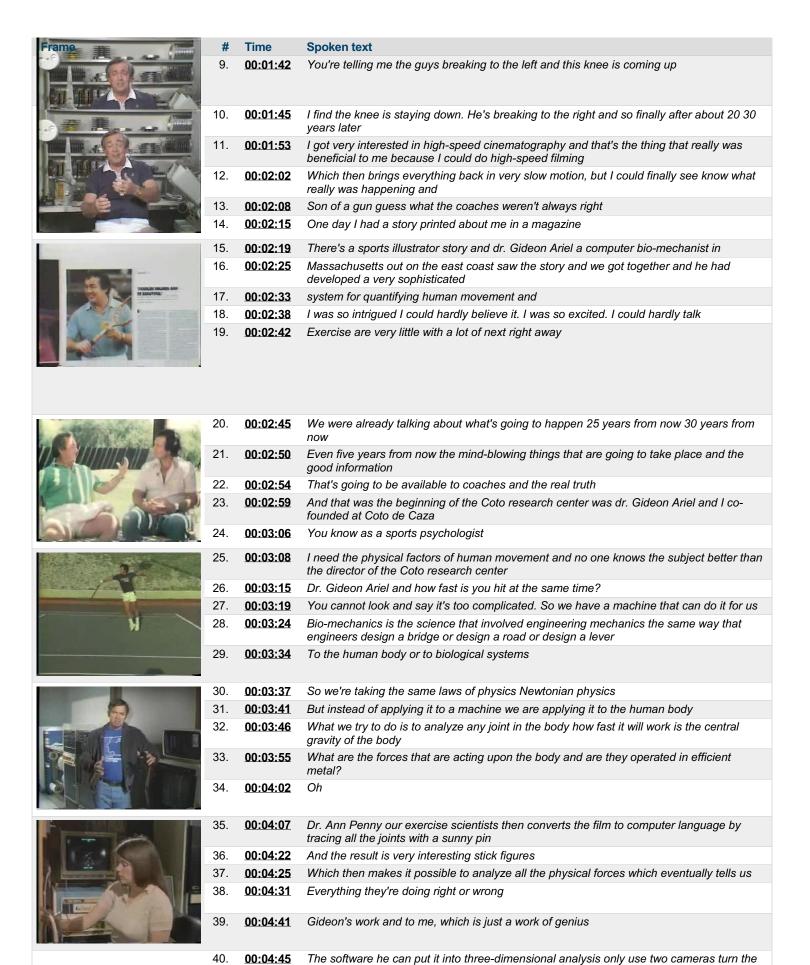
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Created on: 2023-09-19 01:49:31 Processing time: 00:00:20.3060000

Total tokens: 1910

Audio transcription

Frame	#	Time	Spoken text
	0.	00:00:30	You
THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I	1.	00:01:00	Welcome to the Coto Research Center a unique sports analysis facility
	2.	00:01:06	Where today's performance has changed
	3.	00:01:10	For the future
	4.	00:01:17	As a kid I was light and I was short and as you know when you're short and light you got to really fight your guts out in sports
	5.	00:01:24	And so I needed the very best information that I could get in order to make these teams
	6.	00:01:30	1
	7.	<u>00:01:31</u>	Got very confused in the early days because coaches were telling me certain things and I really felt like a dummy because I'm saying
	8.	00:01:39	She's you're telling me all this stuff, but I don't see that. It's funny



00:04:53

person upside down right side left look at him from any angle

Frame	#	Time	Spoken text
\ <u>\</u>	42.	00:04:58	Was very interesting because David Hartman the host of Good Morning America show David was here not too long ago and he was working on his golf swing
	43.	00:05:07	We couldn't really tell whether the golf swing was on a perfect line
	44.	00:05:11	The computer could tell us that we want to do some things
	45.	00:05:14	Not Gideon just takes the software rotates it up at the angle we want we have David almost standing on his head
	46.	00:05:19	So that we can see how that would look on the swing and it was perfectly aligned
919	47.	00:05:29	But why we were so interested is David hit the ball so far it's a very good golfer and he doesn't get a chance to play much
	48.	<u>00:05:35</u>	But his stroke was almost perfect
	49.	00:05:40	And so we got all these things happening around his baseball players coming here did a football kicker
基 惠 — "	50.	00:05:45	Now to get this how do you like this from bobber chemical standpoint the football kickers here he came all away from harvard right
	51.	00:05:52	And Gideon says what foot do you kick with and he says the right foot?
H	52.	00:05:56	I really work hard on that right foot. No making snap and trying to get the right muscle systems working for me
	53.	00:06:02	Gideon had that puzzle look and he looked at the kick and said it's how you land on the left leg that makes the right foot kick
	54.	00:06:09	Okay, go
	55.	00:06:11	Anyway, they go down the force plate and Gideon shows them how to land on the left to transmit that energy into the right leg
	56.	00:06:18	And the guy picks up about 30 percent in about 35 minutes in the way he landed
	57.	00:06:25	The different feeling I didn't know until he told me and he showed me the force on the plate
	58.	00:06:29	I would never imagine that that would be the way to do you always think I want to get this like as strong as I can
2002	59.	00:06:33	So I can really hit the ball hard and I can see no differences to this way was stronger and I can stop quicker
	60.	00:06:38	This leg would naturally go fast because the muscles doesn't make any difference how fast the dick is back for the same story
	61.	00:06:43	You cannot shoot the cannon out of a canoe another very fun area for me
	62.	00:06:48	Is I'm a lousy volleyball player, but I've always loved it and guess who we have here the United States Olympic women's volleyball team
9	63.	00:06:56	Dr. Harry Salinger and his coaches
1	64.	00:06:58	
	65.	00:07:07	Harry Salinger is now heavy into biomechanics and with his background in exercise physiology
	66.	00:07:13	And the women who are on the volleyball team are so super and they're very interested in scientific analysis
	67.	00:07:19	It's unbelievable what he's got these women doing they're jumping higher
10	68.	00:07:26	They're learning how to spike and he also uses the computer and they bring the volleyball players up and they show how they could be more forceful
	69.	00:07:37	Got all the cards I offer since it has three facilities
	70.	00:07:41	And I'm like out of conscious think that we see and we know everything
	71.	00:07:44	But really we don't know everything we don't see even half of the same things that's happening
	72.	00:07:50	And color the causa allows me to really study peacefully in slow motion and see really what's going on
	73.	00:07:57	And then obviously to improve the technique and improve everything else
	74.	00:08:02	Our goals in the center is to make everybody a gold medalist in his own body
	75.	<u>80:80:00</u>	Obviously we're working with the whole spectrum of human body on one end. We have the olympic champions
	76.	00:08:14	We're working with them so they can perform better in golempic games
	77.	00:08:18	However, not everybody can perform in golempic games



#	Time	Spoken text
78.	00:08:21	That does mean that the person cannot perform in real life better be a gold medalist in his own structure again
79.	00:08:27	We will help people to swing the golf club better to run with a better shoes to have a better skill
80.	00:08:34	And at any sockets in their hands. We try to optimize every person to his maximum ability
81.	00:08:40	Well, what we find is that the majority of people in our society
82.	00:08:44	Are not working anywhere near maximum efficiency levels
83.	00:08:48	And they have so much more ability than they thought
84.	00:08:52	Which is so exciting to me because now we're funny now that why intermediates haven't had as much fun and haven't had



85.	00:08:59	As many gains in their sports skills is that they've been utilizing a system that demands that they be 10 times more talented
86.	00:09:06	Than the best player in the world
87.	00:09:08	And when the intermediate suddenly finds out that they can improve in a very short period of time
88.	00:09:13	I can't tell you what happens. They go crazy. They can hardly sweep from the excitement
89.	00:09:17	And and I must say it's the same for me to to watch somebody improve like that and it changes their whole life
90.	00:09:36	You



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