



Ariel Dynamics Inc. Media Library - Video

French TV



Code	adi-vid-01126
Title	French TV
Description	...
Subject	Performance Analysis
Duration	00:07:22
URL	https://arielweb.com/videos/play/adi-vid-01126
Date	2013-01-16 15:40:40
Label	Approved
Privacy	Public

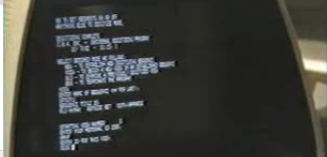

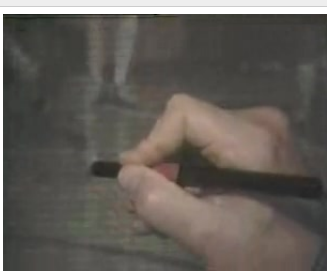



Synopsis

In 1924, American athletes began using a device called an ordinate, a large cube installed in the ground, to collect physical data and improve their performance in various sports. The ordinate works by recording an athlete's movements, breaking them down image by image, and then reconstructing the movements for analysis. This technology was used extensively during the World Championship, where it was used to study and compare the movements of athletes from different teams, such as the American and Chinese teams. The ordinate can also measure the strength of the game and trace vectors representing the forces in play. This data is then printed and given to the athletes and their coaches for review and correction. The ordinate is not only used in sports, but also in training sessions to measure the strength of the players and calculate muscle fatigue, pressure, traction, and the strength curve. The ordinate has given American athletes a significant advantage in the Olympics.

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Audio transcription

Frame	#	Time	Spoken text
	0.	00:00:00	Counter-center and nothing else than Nuzin to make champions.
	1.	00:00:07	In 1924, all American athletes will be passed by there.
	2.	00:00:13	We just won 100 meters and the 10th of second.
	3.	00:00:18	This small difference can be changed on a stadium, the bronze, an archon and an archon.
	4.	00:00:27	The magician is an ordinate, a servo of several 10 meters cube, installed in the ground,
	5.	00:00:34	and in order to give them all the physical data that regulates the athletes in all the disciplines.
	6.	00:00:44	The day of our arrival in California, the American team of Volébole is now facing the ordinate.
	7.	00:00:53	Everything starts with a training session filmed by a camera.
	8.	00:00:59	Each athlete is so excited, each of his best revolutions is recorded and given to the machine.
	9.	00:01:10	His gesture is to decompose images by images, all ready now to call the ordinate.
	10.	00:01:23	The first step is to translate this sportive gesture by giving it a format.
	11.	00:01:35	At the occasion of the World Championship, there are 10 of us.
	12.	00:01:38	We have also filmed, avoided accelerating, all the encounters with the Chinese teams, the RSS and so on.

Frame	#	Time	Spoken text
	13.	00:01:46	<i>We already have an ordinate, all their athletes.</i>
	14.	00:01:52	<i>It's like we're going to do now, we're going to take a look at these films on this sensitive screen.</i>
	15.	00:01:57	<i>It's a digital screen, which every time we touch it, it's going to be a special creation,</i>
	16.	00:02:01	<i>it's going to give the ordinate the memory of this touch.</i>
	17.	00:02:06	<i>Here's an action called Floyd Man, the best American player.</i>
	18.	00:02:12	<i>Image after image, the technician leads the champion to the position he wants to study,</i>
	19.	00:02:17	<i>in the appearance, the extension and the taste of Floyd Man.</i>
	20.	00:02:21	<i>At the age of the marker, it's about to point on the screen the position of each of the members of the athlete,</i>
	21.	00:02:27	<i>hand, wrist, elbow, shoulder, knee, foot, as much as the index finger,</i>
	22.	00:02:32	<i>which will then serve the ordinate to reconstruct the sportive gesture.</i>
	23.	00:02:39	<i>Each image requires the same point, a long work, and a fastie,</i>
	24.	00:02:44	<i>but which only allows to connect directly the sportive to the human ordinate.</i>
	25.	00:02:49	<i>And here is the work of the synthesis of the ordinate.</i>
	26.	00:02:53	<i>He links the points to the others and appears, stylized, the attitude of Floyd Man.</i>
	27.	00:03:00	<i>I'm now meeting on the same screen the silhouette of Floyd Man and Yokoyama, the best Japanese.</i>
	28.	00:03:14	<i>We're going to see all the two actions.</i>
	29.	00:03:20	<i>And here is Alente Filet and Smatcher at the same time.</i>
	30.	00:03:32	<i>I can also multiply the sequence to leave on the screen the trace of each of the steps.</i>
	31.	00:03:39	<i>I can also observe this spectrum on different angles, because it can evolve in the three dimensions.</i>
	32.	00:03:45	<i>It's the first ordinate in the world, three-dimensionally.</i>
	33.	00:03:56	<i>If I want to compare their gestures to the vertical, for example,</i>
	34.	00:04:01	<i>I change the spectrum of Floyd Man in this position,</i>
	35.	00:04:06	<i>then the Yokoyama,</i>
	36.	00:04:13	<i>and let them do it now.</i>
	37.	00:04:17	<i>I come back to the initial image and see again, Alente Filet, in a wide range.</i>
	38.	00:04:31	<i>But we can do a lot of work.</i>
	39.	00:04:33	<i>I'm going to measure the strength of the game, to make myself ask the ordinate to trace two vectors, representing the forces in presence.</i>
	40.	00:04:42	<i>The longest one represents the most powerful animal, and the one from Yokoyama, and the one in all positions.</i>
	41.	00:04:49	<i>Why?</i>
	42.	00:04:50	<i>Here is the answer.</i>
	43.	00:04:51	<i>I'm going to observe both sides of the face.</i>

Frame	#	Time	Spoken text
	44.	00:04:53	Yokoyama has a perfect body position compared to its gravity center.
	45.	00:04:59	Floyd Man, on the other hand, has his gestures dispersed.
	46.	00:05:02	He has a permissivity.
	47.	00:05:04	And if he arrives to correct the photo,
	48.	00:05:07	I can improve the speed of the shot of 10 km.
	49.	00:05:14	The same technique and even the results, if we want to study the evolution of the entire team.
	50.	00:05:19	Each point of each side of the film represents the American and Chinese joys.
	51.	00:05:24	What we have studied is the way the Chinese team reacts to the instant when Floyd Man is ready to shoot.
	52.	00:05:30	Here at the bottom, the displacement of each Chinese, which allows us to adjust our shot, just in the center of the hole.
	53.	00:05:42	Why did we shoot at this point?
	54.	00:05:44	Simply because we saw before this match, the Chinese have already filmed the action.
	55.	00:05:48	And that the ordinateer had analyzed the quality of their reaction.
	56.	00:05:52	In fact, we put our athletes in the position of someone who plays at the poker, recognizing the heart of his opponent.
	57.	00:05:59	All of these analyses, all of these observations, are then cut on the paper
	58.	00:06:03	and put in the position of the athletes and the coach, charged with the corrective.
	59.	00:06:08	The ordinateer does not only survive at the level of the sport discipline.
	60.	00:06:12	He intervenes in training, in measurements like here, the strength of the players in the course of a training session.
	61.	00:06:22	In the calculation, the fatigue of the muscle, the pressure, the traction, and the strength curve.
	62.	00:06:28	In short, the American athletes are now in their position, an adult ally.
	63.	00:06:42	In fact, you can use the ordinateer that you want and give them all the possible information and imagination.
	64.	00:06:49	The human body will always celebrate to be fulfilled through all these gifts.
	65.	00:06:52	The best athlete, finally, is the one who will be proud of me.
	66.	00:07:00	Meanwhile, the Americans have heard the matter of a long, long advance,
	67.	00:07:04	and during the next Olympics, they take advantage of it.
	68.	00:07:08	In the center, there is nothing other than the music of the Champions League.

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