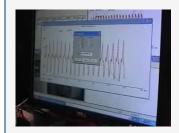


# Ariel Dynamics Inc. Media Library - Video

## **APAS Tutorial 8**

# Time



Code adi-vid-01174
Title APAS Tutorial 8
Subtitle Digitizing and EMG

**Subject** APAS;Digitize;EMG;Favorite;Help;Performance

Analysis; Tutorials

**Duration** 00:10:01

URL https://arielweb.com/videos/play/adi-vid-01174

Date 2009-04-03 00:00:00

**Label** Approved **Privacy** Public

# **Synopsis**

The video describes a process of using a tool to analyze data. The user is instructed to click on a point, label it, and then place it where they want it. The tool is used to measure the time it takes for one cycle, by looking at the x-axis and determining the difference between two sides. The user is also instructed on how to correct errors, remove labels, and add new ones.

The tool also allows the user to analyze the range and value of data. The user is also guided on how to start a new file and copy a specific format. The tool also has a feature to filter out noise and bring the data down to a baseline.

The user is also warned about the importance of turning off the battery to conserve power. The tool also allows the user to analyze analog data and select specific muscles for analysis. The user can also integrate kinematic data and analyze fatigue or integral.

The tool also allows the user to rectify data and calculate the total accumulation of electrical activity over a specific time period. The user can also set parameters and analyze the power spectrum of the curves. The tool also allows the user to change from rectified to unrectified data.

Model Id: gpt-4-0613

Created on: 2023-09-19 03:14:45 Processing time: 00:00:18.7340000

Total tokens: 2158

Frame

# **Audio transcription**

Tranic	<i>m</i>	Tillic	oponen text
- HILLIAMANANA	0.	00:00:00	I remember you have to put it on the point, click on the point, and then put the label
	1.	00:00:13	where you want it to, right there.
	2.	00:00:15	Good.
	3.	00:00:16	Okay.
	4.	00:00:17	Actually, I should have just done nice velocity.
Sand on The Park	5.	00:00:18	Yeah.
minumin	6.	00:00:19	Okay.
- Hunganull	7.	00:00:20	Gotcha.
- Annahaman Alahaman Alahaman	8.	00:00:21	Good enough.
Sulmillini 18471			

Spoken text



15. 00:00:28 Okay.
 16. 00:00:29 Escape out of that.
 17. 00:00:31 All right.
 18. 00:00:32 Now, the next question is, how much time does it take for one cycle?
 19. 00:00:40 Okay.



20. 00:00:41 So I'll just be from here to here.
 21. 00:00:43 So if we do that, we go to tools, label, add.
 22. 00:00:48 We're looking at the x-axis this time, but we're looking at how much time would be a
 23. 00:00:54 value of doing a range.
 24. 00:00:57 You could put a value, but what we want is at this time, we want the difference between

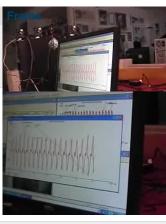


00:01:01 the two sides.
 00:01:02 Okay.
 00:01:03 Range, right.
 00:01:04 And the x-axis.
 00:01:05 Oh, she's in here.



30. 00:01:06 Yeah.
 31. 00:01:07 That's right.
 32. 00:01:08 Take the second.
 33. 00:01:09 Well, you took two cycles there.
 34. 00:01:14 Yeah.

35.	00:01:15	Correct.
36.	00:01:16	All right.
37.	00:01:17	Now you didn't correct it.
38.	<u>00:01:18</u>	You just put the time there.



#	Time	Spoken text
39.	00:01:25	So now it's asking for the star of the range to do another one.
40.	00:01:28	Okay.
41.	00:01:29	So I'll pick one of the peaks here.
42.	00:01:32	What happened?
43.	00:01:33	All right.
44.	00:01:34	Yeah.



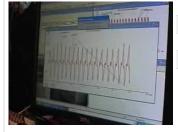
45.	00:01:35	I just want to do it over again.
46.	00:01:36	This is incorrect here.
47.	00:01:37	So I'm going to go to tools, label, remove.
48.	00:01:40	Okay.
49.	00:01:41	Okay.



50.	00:01:42	Tools, label.
51.	00:01:43	And we're doing.
52.	00:01:44	We said we're doing it.
53.	00:01:48	Range.
54.	<u>00:01:55</u>	Keep wanting to get a value of range.

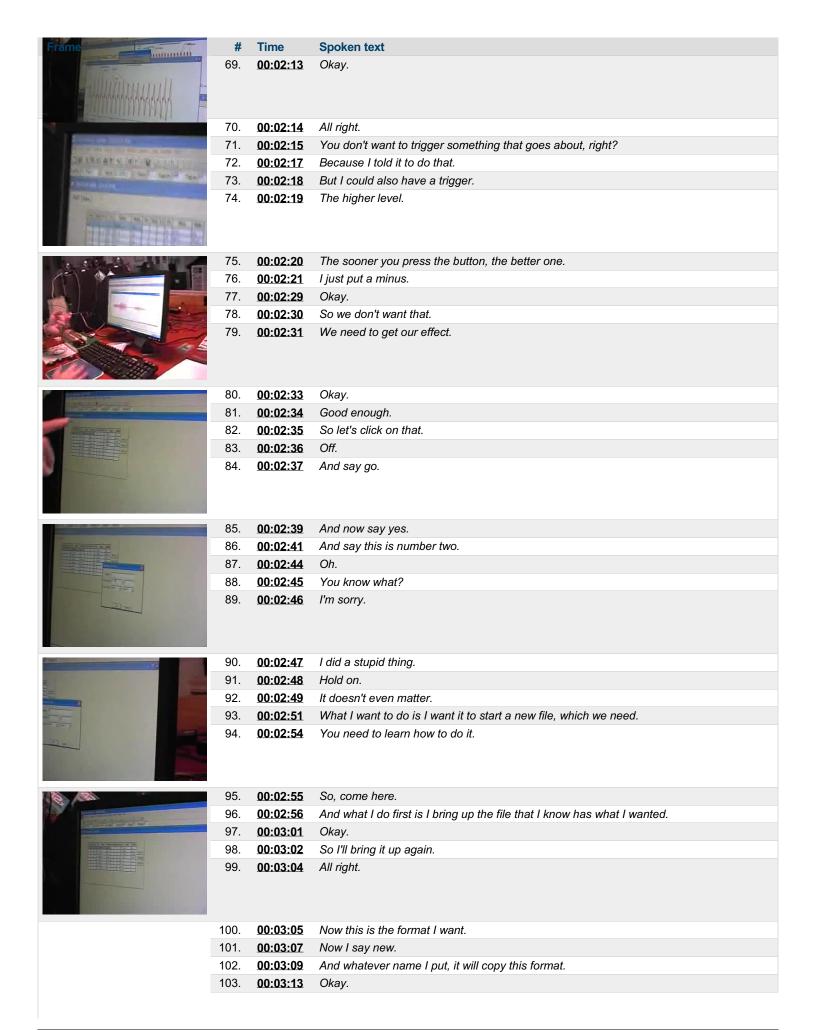


55.	00:01:57	Come in.
56.	00:01:58	Yeah.
57.	00:01:59	Here, here.
58.	00:02:00	Downstairs.
59.	00:02:01	All right.

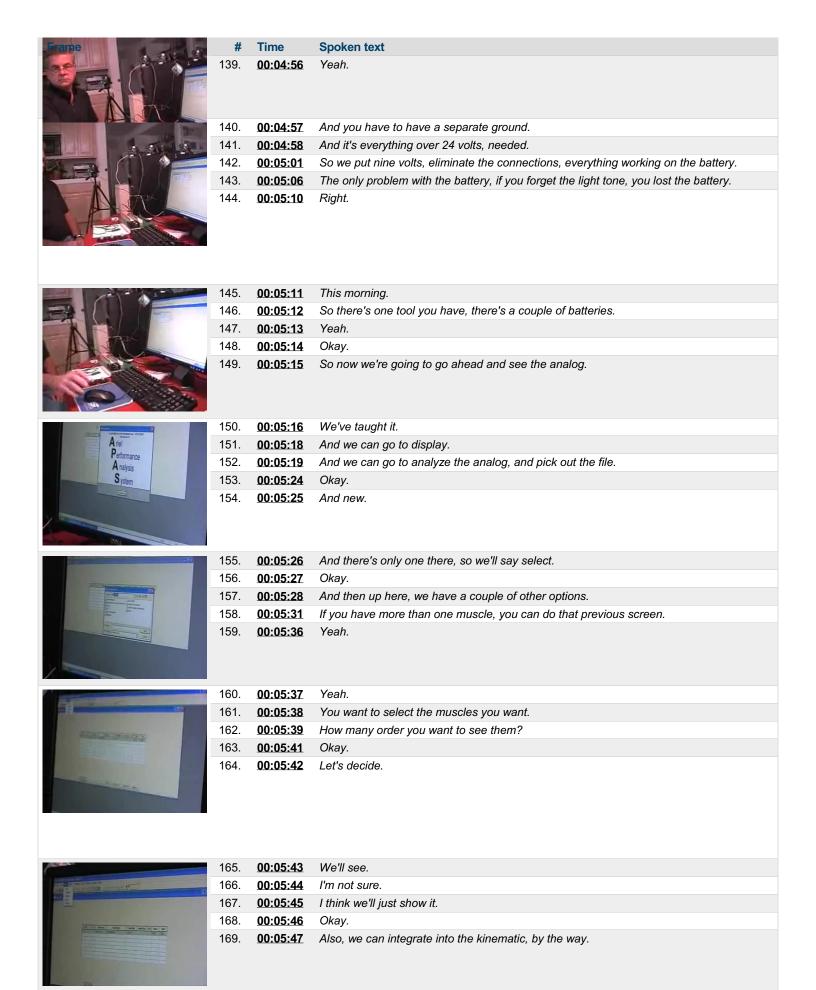


60.	00:02:02	That's right.
61.	00:02:03	That's right.
62.	00:02:04	That's right.
63.	00:02:05	It is.
64.	00:02:06	I know.

65.	00:02:07	Come in.
66.	00:02:08	What does it tell me what it is?
67.	00:02:11	Zero.
68.	00:02:12	Zero.



Frame at Many det House	#	Time	Spoken text
	104.	00:03:14	So in this case, I'm going to go to your directory.
Name of the Owner, when the Park			
A SOLUTION OF THE PARTY OF THE			
10 m	105.	00:03:17	Red.
	106.	00:03:18	And let's say you hit.
	107.	00:03:25	Yeah.
5/2 Selection	108.	00:03:26	Okay.
	109.	00:03:27	And then we're going to click the single.
		********	The state of the s
Name and American			
AND DESCRIPTION OF STREET, STR	110.	00:03:31	Okay.
to the Strate Control of the Control	111.	00:03:33	You know what the zero is?
THE RESIDENCE OF THE	112.	00:03:38	By the way.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	113.	00:03:39	You're filtering out the light.
	114.	00:03:42	Whatever you're through.
	115.	00:03:43	It just brings it down to you later on.
	116.	00:03:45	One more comment.
	117.	00:03:46	Not only filter that, but if there is any activity on the skin, which is going all the time,
	118.	00:03:52	and you want to zero it up, so everything will start from whatever the baseline,
	119.	00:03:58	where there is no noise.
	120.	00:04:00	Or there is a noise, and it's a lemonade with a noise.
	121.	00:04:04	Okay.
	122.	00:04:05	Beautiful.
	123.	00:04:06	So when it's no activity, it puts it on or very close to the baseline.
	124.	00:04:15	Okay.
	125.	00:04:16	So now go ahead off and say go again.
And the second s	126.	00:04:10	And yes, we'll say it.
4-	127.	00:04:22	And put it in the caption.
a c	128.	00:04:29	Okay.
	129.	00:04:30	Okay.
	130.	00:04:31	Yeah.
	130.	00:04:31	Always turn the battery off.
	131.	00:04:32	Yeah.
	133.	00:04:36	Yeah.
	134.	00:04:37	By the way, I have another comment.
THE SECOND SECOND	.0 1.	VVIVTIVI	=y and may, i have another common.
	4.5.5		
	135.	00:04:39	The reason we have batteries, and we don't get the power from the computer,
	136.	00:04:44	because of your field, we have suddenly FDA problems,
	137.	00:04:49	where if the box connects to the computer, one of them is 220,
	138.	00:04:54	we have to have an FDA approval.



Property of the desired from	#	Time	Spoken text
Name and Address of the Owner o	171.	00:05:52	And then other things we have, for example, are fatigue, or integral.
	172.	00:05:57	Let's say do integral.
Sec. Health Aller	173.	00:05:58	What is it?
	174.	00:05:59	Integral.
	175.	00:06:00	What is it?
	176.	00:06:01	Integral.
	177.	00:06:02	What is it?
State of the last state of the last	178.	00:06:03	Integral.
	179.	00:06:05	The area under the kinematic, but first you have to rectify it.
	180.	00:06:14	Otherwise it would be zero.
	181.	00:06:17	Because the positive and negative would subtract from each other.
1,01	182.	00:06:20	Did you rectify it?
	183.	00:06:21	No.
	184.	00:06:22	So you have to rectify it?
0	185.	00:06:24	Where?
	186.	00:06:25	Someplace, though.
	187.	00:06:27	I forget it.
*** VIP (44 MIN (1) to ) to	188.	00:06:28	I think it does it.
	189.	00:06:29	Oh, okay.
3 (MI)	190.	00:06:30	I believe in the philanthropy.
	191.	00:06:32	No reset.
	192.	00:06:33	All right.
	193.	00:06:34	So just be
	194.	00:06:35	Shoot.
A .	195.	00:06:36	All right.
	196.	00:06:37	Okay.
	197.	00:06:38	Let's start.
	198.	00:06:39	That's a compliment.
	199.	00:06:40	It continues up.
A 4	200.	00:06:41	At the end it tells us how much electrical activity occurred over that time period.
and the same of th	201.	00:06:43	So I'll do the same thing.
	202.	00:06:44	I'll save value on the y.
	203.	00:06:51	Didn't think it.
	204.	00:06:55	So it was a total accumulation at one point.
	205.	00:06:59	It was zero, nine, nine millivolts per second.



#	Time	Spoken text
206.	00:07:02	And what I do on my FCEs, I have a form of them going up.
207.	00:07:05	It should be two and two pretty close areas.
208.	00:07:08	There's still some residual stuff going on.
209.	00:07:10	What I find is if a muscle is recovering, it works harder.



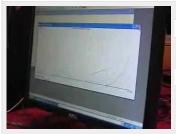
210.	00:07:15	So the total integral is much less higher than the normal side.
211.	00:07:19	Integral is the early on of the kinematic.
212.	00:07:21	What I'm confused about is why it's going up on an angle.
213.	00:07:25	Because it's accumulated.
214.	00:07:27	Oh, okay.



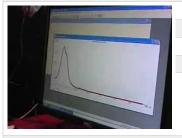
215.	00:07:28	It's a new reset.
216.	00:07:29	Yeah.
217.	00:07:30	It's a new reset.
218.	00:07:31	It's kind of giving you the max work or the max electrical activity.
219.	00:07:34	The whole thing.



220.	00:07:35	I say integral.
221.	00:07:37	And I say overtime.
222.	00:07:40	And I can reset it every second.
223.	00:07:43	No.
224.	00:07:44	None of the time.



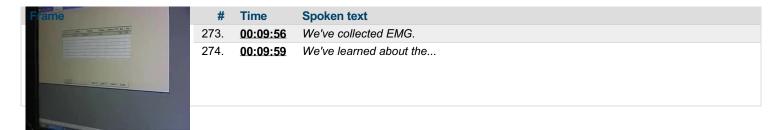
225.	00:07:46	You can do anything you want.
226.	00:07:48	If that's the formula you're still looking at right now.
227.	00:07:50	But I guess for your MS patient on the portfolio, you won't want to see the total work over time.
228.	00:07:55	Maybe every second.
229.	00:07:56	And see if every second is stuck going down.



230.	<u>00:07:59</u>	I'm not going to do that.
231.	00:88:00	That's when you say that's your exercise program.
232.	00:08:02	But there you go.
233.	00:08:03	I don't want to go about that.
234.	00:08:05	You'll probably know about this aspect more than we know about it.

235.	00:08:09	We are more in the kinematic than the motion.
236.	00:08:11	I mean, that's what you're saying.

Frame	#	Time	Spoken text
The same of the same of the same of	237.	00:08:13	It's okay.
	238.	00:08:14	If you're just looking at the actual activity, if you need to go down.
22 May 1947 May 1947	239.	00:08:19	Yes.
W. C.	240.	00:08:20	At a certain point.
100 mm 10	241.	00:08:21	Yes.
	242.	00:08:22	I don't want to go down.
	243.	00:08:23	I don't want you to go down.
	244.	00:08:24	You set that point.
			,
	245.	00:08:25	Oh, by the way, you can also put Regia RMS in any real power, power spectrum of the curves.
	246.	00:08:40	And again, we'll find that there was pain that the power would drift to the right.
The state of the s	247.	00:08:47	Anyway, fatigue.
	248.	00:08:52	You can set the parameters.
	249.	<u>00:08:56</u>	I don't know what the
THE RESERVE OF THE PERSON NAMED IN	250.	00:08:57	This is a whole formula.
The same and	251.	00:08:58	That came from a guy in Belgium, very famous.
	252.	00:09:02	Clarisse.
	253.	00:09:03	Clarisse.
	254.	00:09:04	That's a publication about EMG.
( To 100 )	255.	00:09:08	So, lots of the software, some scientists interesting in particular parameters.
	256.	00:09:13	You put it in in.
	257.	00:09:14	And many times you don't know what it means.
at M A	258.	00:09:16	It's a linear envelope.
	259.	00:09:17	I'll tell you that for me.
NY NY			
	260.	00:09:20	And the way I did that was I said, beta.
	261.	00:09:22	And instead of doing raw, I did a linear envelope.
	262.	00:09:25	Or you can do both together like that.
	263.	00:09:28	Good.
	264.	00:09:29	So, you'll see here is the rectified.
100	265.	00:09:34	How do we change from rectified on rectified?
Andrew Control	266.	00:09:40	No, you have the both.
	267.	00:09:41	The linear is rectified.
THE RESERVE OF THE PARTY OF THE	268.	00:09:45	The envelope.
700	269.	00:09:46	I know, but there used to be a way
	270.	00:09:48	Yeah, I know.
	271.	00:09:49	For XEE purposes, that is to you.
	272.	00:09:51	All we do is to do a little analysis of the product.



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