The example data object



	Α	В	С	D	E
1	t	ax	ay	az	scr
2	0	0.3931848	-0.1593144	-0.4178079	0
3	0.01	0.3957354	-0.15696	-0.4242825	0
4	0.04	0.4138839	-0.1547037	-0.429678	0
5	0.05	0.4415481	-0.1512702	-0.4325229	0
6	0.06	0.4741173	-0.1488177	-0.434583	0
7	0.08	0.5021739	-0.1521531	-0.4285008	0
8	0.1	0.5247369	-0.1669662	-0.420849	0
9	0.11	0.5421987	-0.1813869	-0.4160421	0
10	0.14	0.5506353	-0.1947285	-0.4094694	0
11	0.15	0.5538726	-0.203067	-0.4057416	0
12	0.16	0.5534802	-0.2035575	-0.4056435	0
13	0.17	0.5527935	-0.1961019	-0.4098618	0
14	0.2	0.558189	-0.1908045	-0.4121181	0
15	0.21	0.5764356	-0.1865862	-0.4162383	0
16	0.22	0.589581	-0.18639	-0.4258521	0
17	0.25	0.6049827	-0.1941399	-0.4243806	0
18	0.26	0.619992	-0.206991	-0.4192794	0
19	0.27	0.6320583	-0.2191554	-0.4092732	0
20	0.3	0.6392196	-0.2279844	-0.3975993	0
21	0.31	0.6465771	-0.2317122	-0.3908304	0
22	0.32	0.6583491	-0.2291616	-0.3950487	0
23	0.34	0.6725736	-0.2220984	-0.4050549	0

Example data - what it really shows



		Α	В	С	D	E
T :	1 t		ax	ay	az	scr
Time	2	0	0.3931848	-0.1593144	-0.4178079	0
	3	0.01	0.3957354	-0.15696	-0.4242825	0
	4	0.04	0.4138839	-0.1547037	-0.429678	0
	5	0.05	0.4415481	-0.1512702	-0.4325229	0
	6	0.06	0.4741173	-0.1488177	-0.434583	0
	7	0.08	0.5021739	-0.1521531	-0.4285008	0
	8	0.1	0.5247369	-0.1669662	-0.420849	0
	9	0.11	0.5421987	-0.1813869	-0.4160421	0
	10	0.14	0.5506353	-0.1947285	-0.4094694	0
	11	0.15	0.5538726	-0.203067	-0.4057416	0
	12	0.16	0.5534802	-0.2035575	-0.4056435	0
	13	0.17	0.5527935	-0.1961019	-0.4098618	0
	14	0.2	0.558189	-0.1908045	-0.4121181	0
	15	0.21	0.5764356	-0.1865862	-0.4162383	0
	16	0.22	0.589581	-0.18639	-0.4258521	0
	17	0.25	0.6049827	-0.1941399	-0.4243806	0
	18	0.26	0.619992	-0.206991	-0.4192794	0
	19	0.27	0.6320583	-0.2191554	-0.4092732	0
	20	0.3	0.6392196	-0.2279844	-0.3975993	0
	21	0.31	0.6465771	-0.2317122	-0.3908304	0
	22	0.32	0.6583491	-0.2291616	-0.3950487	0
	23	0.34	0.6725736	-0.2220984	-0.4050549	0

Example data - what it really shows



Time Biomechanical acceleration

Pendrill, AM., Eager, D.(2020). "Velocity, acceleration, jerk,	
snap and vibration: forces in our bodies during a roller coaste	er
ride " Phys. Educ. 55 065012	

		A	В	С	D	Е
	1	t	ax	ay	az	scr
	2	0	0.3931848			0
Į	3	0.01	0.3957354			0
	4	0.04				0
	5	0.05	0.4415481	-0.1512702	-0.4325229	0
	6	0.06	0.4741173	-0.1488177	-0.434583	0
	7	0.08	0.5021739	-0.1521531	-0.4285008	0
	8	0.1	0.5247369	-0.1669662	-0.420849	0
	9	0.11	0.5421987	-0.1813869	-0.4160421	0
1	10	0.14	0.5506353	-0.1947285	-0.4094694	0
ĺ	11	0.15	0.5538726	-0.203067	-0.4057416	0
ĺ	12	0.16	0.5534802	-0.2035575	-0.4056435	0
	13	0.17	0.5527935	-0.1961019	-0.4098618	0
ĺ	14	0.2	0.558189	-0.1908045	-0.4121181	0
ĺ	15	0.21	0.5764356	-0.1865862	-0.4162383	0
	16	0.22	0.589581	-0.18639	-0.4258521	0
	17	0.25	0.6049827	-0.1941399	-0.4243806	0
	18	0.26	0.619992	-0.206991	-0.4192794	0
	19	0.27	0.6320583	-0.2191554	-0.4092732	0
Ì	20	0.3	0.6392196	-0.2279844	-0.3975993	0
	21	0.31		-0.2317122	-0.3908304	0
	22	0.32				0
	23	0.34				0
ı		0.01	0.0120100	O.LLLCOO I	0. 10000 10	·

Example data - what it really shows



ax ay az scr Time 0.3931848 -0.1593144 -0.41780790.01 0.3957354 -0.15696 -0.4242825 0.04 0.4138839 -0.1547037 -0.429678 0.05 0.4415481 -0.1512702 -0.4325229 0.06 0.4741173 -0.1488177 -0.434583 0.08 0.5021739 -0.1521531 -0.4285008 **Biomechanical A**.5247369 -0.1669662 -0.420849 0.5421987 -0.1813869 -0.4160421 acceleration 0.14 0.5506353 -0.1947285 -0.4094694 10 0.15 0.5538726 -0.203067-0.4057416 0.16 0.5534802 -0.2035575 -0.4056435 0.17 0.5527935 -0.1961019 -0.4098618 0.2 0.558189 -0.1908045 -0.4121181 0.21 0.5764356 -0.1865862 0 -0.4162383 0.22 0.589581 -0.18639-0.42585210.25 0.6049827 -0.1941399 -0.4243806 0 0.26 0.619992 -0.206991 -0.4192794 18 0.27 0.6320583 -0.2191554 -0.4092732 0 19 0.3 0.6392196 -0.2279844 0 -0.3975993 0.31 0.6465771 -0.2317122 -0.3908304 0 0.32 0.6583491 -0.2291616 -0.3950487 0

0.34

0.6725736

-0.2220984

-0.4050549

Scream detected

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Pendrill, A.-M., Eager, D.(2020). "Velocity, acceleration, jerk, snap and vibration: forces in our bodies during a roller coaster ride." *Phys. Educ.* **55** 065012



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