#### Data information

		#vio	deo	Duration	(video)	Length of	the action	#insta	ances	Mean le	nght	Std Deviatio	n Lenght
#	Name	training	test	training	test	training	test	training	test	training	test	training	test
1	carrot	3	3	00:00:31	00:00:30	4336	3401	60	79	45,27	35,06	2,24	13,11
2	cutting	3	3	00:01:04	00:01:04	6371	6737	18	17	304,44	358,94	54,62	54,49
3	dish	3	3	00:00:22	00:00:14	1856	2109	18	17	48,22	46,24	1,96	6,10
4	eating	3	3	00:01:18	00:01:21	7415	8151	14	14	517,29	531,79	112,71	104,08
5	eggs	3	3	00:00:27	00:00:29	3045	3329	77	80	26,68	28,45	4,67	9,58
6	lemon	3	3	00:00:22	00:00:19	3391	2318	23	17	82,61	76,59	13,21	16,14
7	mezzaluna	3	3	00:00:23	00:00:25	2447	3024	26	35	66,88	57,29	4,29	3,03
8	mixing	3	3	00:00:22	00:00:23	2662	3050	17	20	70,59	84,20	2,35	4,83
9	openbottle	3	3	00:01:15	00:01:06	7500	6684	19	15	354,37	334,13	31,75	27,03
10	pan	3	3	00:00:49	00:00:31	4460	3312	20	17	128,90	133,18	15,79	31,99
11	pestling	3	3	00:00:21	00:00:25	2026	2556	24	19	70,04	79,05	16,58	5,01
12	pouringmult	3	3	00:00:38	00:00:37	4508	4180	12	10	272,00	250,60	29,10	36,41
13	pouringsingle	3	3	00:01:35	00:01:31	9229	9122	20	20	436,05	408,75	60,62	61,32
14	reaching	3	3	00:01:15	00:00:13	7335	7728	21	18	318,86	360,89	36,51	90,60
15	rolling	3	3	00:00:30	00:00:36	3064	4083	25	22	103,16	133,91	26,10	25,09
16	salad	3	3	00:00:30	00:00:30	3024	3171	22	19	109,36	108,63	16,30	4,04
17	salting	3	3	00:00:47	00:00:43	5056	4775	18	17	192,33	202,65	42,17	42,21
18	spreading	3	3	00:00:52	00:00:51	5343	5624	23	20	197,87	217,75	28,39	38,37
19	table	3	3	00:00:22	00:00:20	2333	2110	21	19	81,10	67,37	39,66	2,22
20	transporting	3	3	00:01:11	00:01:14	7201	7713	38		178,92	189,40	37,31	42,93
		60	60	0:14:54	0:13:22			516	510				

#### Taxonomy

			5	Semantic			Sp	atial occupat	ion		Velocity	
Action	#	continuous	with pause	circular	backward	mixed	one axis	two axes	all axes	one axis	two axes	all axes
carrot	1	х			Х		х		-	х		
cutting	2		x			Х		X		х		
dish	3	х			X				X			X
eating	4		х		X				X			X
eggs	5	х		Х					X			X
lemon	6	х		Х				X				X
mezzaluna	7	x			X			X			X	
mixing	8	х		Х			х					X
openbottle	9	х		Х				X				X
pan	10	х				Х			X			X
pestling	11	x				Х		X			X	
pouringmult	12	х				Χ	х					X
pouringsingle	13		х		X				X			X
reaching	14		х		x			X				X
rolling	15	x			x		х			х		
salad	16	х		Х				Х			X	
salting	17		х			Х		X			X	
spreading	18	х			Х			X				x
table	19	х			Х		х			х		
transporting	20		х		Х			Х				x
		14	6	5	10	5	5	10	5	5	4	11

	Ī	l	nstance length		Vel	ocity at segm	entation	instants	Use of	objects	Both	hands
Action	#	1sec	and 3 sec	3sec	near zero	near zero	zero	velocity >> 0	yes	no	yes	no
carrot	1	Х						Х		Х		Х
cutting	2			Х		X			X			Х
dish	3	X						х	X			Х
eating	4			Х			Х			X		Х
eggs	5	X						х	X			Х
lemon	6	X						х	X			Х
mezzaluna	7	Х			х				X		x	
mixing	8	X						х	X			Х
openbottle	9			Х	х					X		Х
pan	10		Х			X				X	x	
pestling	11	Х			х				X			Х
pouringmult	12		Х		х				X			Х
pouringsingle	13			Х			X		X			Х
reaching	14			Х			Х			X		Х
rolling	15		Х					х	X		х	
salad	16		Х		х				X			Х
salting	17		Х		х				X			Х
spreading	18		Х		х				X			Х
table	19	Х						х	X			Х
transporting	20			Х			Х			Х		Х
		8	6	6	7	2	4	7	14	6	3	15

Scenes composition

		O	cenes composit	MoC	Cap
Scene	File	Action	#	startFrame	endFrame
1	Scene1.mat	eggs	5	1165	1185
1	Scene1.mat	eggs	5	1185	1212
1	Scene1.mat	eggs	5	1212	1252
1	Scene1.mat	eggs	5	1252	1270
1	Scene1.mat	eggs	5	1270	1292
1	Scene1.mat	eggs	5	1292	1313
1	Scene1.mat	eggs	5	1313	1334
1	Scene1.mat	eggs	5	1334	1357
1	Scene1.mat	eggs	5	1357	1379
1	Scene1.mat	eggs	5	1379	1401
1	Scene1.mat	eggs	5	1401	1430
1	Scene1.mat	eggs	5	1430	1478
1 1	Scene1.mat Scene1.mat	pause	0	1478	1815 2014
1 1	Scene 1.mat	reaching pause	14	1815 2014	2304
1 1	Scene1.mat	transporting	20	2304	2567
1 1	Scene1.mat	pause	0	2567	2766
1 1	Scene1.mat	salting	17	2766	2969
1 1	Scene1.mat	pause	0	2969	3108
1 1	Scene1.mat	transporting	20	3108	3250
1 1	Scene1.mat	pause	0	3250	3393
1 1	Scene1.mat	reaching	14	3393	3553
	Scene1.mat	pause	0	3553	3695
1 1	Scene1.mat	pouringsingle	13	3695	4188
1 1	Scene1.mat	transporting	20	4213	4364
1	Scene1.mat	pause	0	4364	4725
1	Scene1.mat	reaching	14	4725	4746
1	Scene1.mat	pause	0	4746	4934
1	Scene1.mat	eggs	5	4934	4954
1	Scene1.mat	eggs	5	4954	4970
1	Scene1.mat	eggs	5	4970	4988
1	Scene1.mat	eggs	5	4988	5008
1	Scene1.mat	eggs	5	5008	5029
1	Scene1.mat	eggs	5	5029	5050
1	Scene1.mat	eggs	5	5050	5073
1	Scene1.mat	eggs	5	5073	5093
1	Scene1.mat	eggs	5	5093	5113
1	Scene1.mat	eggs	5	5113	5136
1	Scene1.mat	eggs	5	5136	5154
1	Scene1.mat	eggs	5	5154	5204
1	Scene1.mat	eggs	5	5204	5220
1	Scene1.mat	eggs	5 5	5220	5274
1	Scene1.mat	eggs	5	5274	5319
1	Scene1.mat	eggs	5	5319	5353
2	Scene2.mat	reaching	14	818	934
2	Scene2.mat	pause	0	934	1020
2	Scene2.mat	transporting	20	1020	1159
2	Scene2.mat	pause	0	1159	1285
2 2	Scene2.mat	carrot	1	1285	1358
2 2	Scene2.mat	carrot	1	1358 1439	1439 1510
2 2	Scene2.mat Scene2.mat	carrot	1 1	1439 1510	1510
2 2	Scenez.mat Scene2.mat	carrot carrot	1	1510	1615
2	Scene2.mat	carrot	1 1	1615	1667
2	Scene2.mat	carrot	1 1	1667	1719
2	Scene2.mat	carrot	1 1	1719	1719
2	Scene2.mat	carrot	1	1719	1827
2	Scene2.mat	carrot	1	1827	1874
2	Scene2.mat	carrot	1	1874	1929
2	Scene2.mat	carrot	1	1929	1972
2	Scene2.mat	carrot	1	1972	2015
2	Scene2.mat	carrot	1	2015	2060
2	Scene2.mat	carrot		2060	2110
2	Scene2.mat	carrot	1 1	2110	2154
2	Scene2.mat	carrot	1	2154	2188
2	Scene2.mat	pause	0	2188	2283
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## Scenes composition

3         Scene3.mat         mixing         8         4058         4102           3         Scene3.mat         mixing         8         4102         4147           4         Scene4.mat         cutting         2         356         567           4         Scene4.mat         pause         0         567         1123           4         Scene4.mat         transporting         20         1123         1233           4         Scene4.mat         pause         0         1233         1498           4         Scene4.mat         transporting         20         1498         1708           4         Scene4.mat         pause         0         1708         1847					MoC	
3   Scene3.mat   reaching   14   932   1097   1313   350ene3.mat   transporting   20   1131   1330   350ene3.mat   transporting   20   1131   1330   350ene3.mat   pause   0   1498   1572   1839   1572   1839   350ene3.mat   pause   0   1498   1572   1839   1592   350ene3.mat   pause   0   1592   2068   350ene3.mat   pause   0   1592   2068   350ene3.mat   pause   0   1592   2068   350ene3.mat   pause   0   2183   2206   350ene3.mat   pause   0   2183   2206   350ene3.mat   pause   0   2183   2206   350ene3.mat   pause   0   2757   2806   350ene3.mat   pause   0   3109   3322   3363   350ene3.mat   mixing   8   3322   3363   350ene3.mat   mixing   8   3322   3363   350ene3.mat   mixing   8   3363   3423   3465   350ene3.mat   mixing   8   3363   3423   3466   350ene3.mat   mixing   8   3363   3423   3466   350ene3.mat   mixing   8   3363   3423   3465   350ene3.mat   mixing   8   3365   350ene3.mat   mixing   8   3665   3515   3561   350ene3.mat   mixing   8   3665   3515   3561   350ene3.mat   mixing   8   3665   3615   3665   3516   350ene3.mat   mixing   8   3665   3615   3666   3516   350ene3.mat   mixing   8   3615   3666   3616   350ene3.mat   mixing   8   3615   3666   3616   350ene3.mat   mixing   8   3615   3666   3616   36						
3   Scone3.mat transporting   20   1131   1330   3   Scene3.mat transporting   20   1131   1330   3   Scene3.mat transporting   20   1498   1577   1833   Scene3.mat transporting   20   1839   1992   2068   3   Scene3.mat transporting   20   1839   1992   2068   3   Scene3.mat transporting   20   1839   1992   2068   3   Scene3.mat transporting   20   2183   2269   2757   2805   2757   2805						
3 Scene3.mat reaching 20 1131 1330 1330 3 Scene3.mat pause 0 1498 1572 1833 3 Scene3.mat transporting 20 1839 1992 2008 2008 2008 2008 2008 2008 2008 2			_			
3 Scene3.mat pause 0 1498 1572 3 Scene3.mat openbottle 9 1572 1839 3 Scene3.mat transporting 20 1839 1992 3 Scene3.mat transporting 14 2088 2133 2269 3 Scene3.mat pause 0 1992 2088 2133 2269 3 Scene3.mat pause 0 2183 2269 2757 3 Scene3.mat pause 0 2757 2805 3 Scene3.mat pause 0 2757 2805 3 Scene3.mat pause 0 2757 2805 3 Scene3.mat reaching 14 2805 2980 3109 3 Scene3.mat reaching 14 2805 2980 3109 3 Scene3.mat reaching 14 2805 2980 3109 3 Scene3.mat mixing 8 3322 3363 3 Scene3.mat mixing 8 3332 3363 3 Scene3.mat mixing 8 3332 3465 3 Scene3.mat mixing 8 3423 3465 3 Scene3.mat mixing 8 3465 3515 3 Scene3.mat mixing 8 3465 3515 3 Scene3.mat mixing 8 3615 3661 3 Scene3.mat mixing 8 3615 3665 3 Scene3.mat mixing 8 3615 3615 3 Scene3.mat mixing 8 3615 3615 3 Scene3.mat mixing 8 3611 3812 3857 4 Scene4.mat pause 0 567 4010 4 Scene4.mat pause 0 567 402 4 Scene4.mat transporting 20 1123 1233 4 Scene4.mat transporting 20 1488 4702 4 Scene4.mat transporting 20 1488 4702 4 Scene4.mat transporting 20 1498 2699 2759 4 Scene4.mat transporting 14 4965 4669 4 Scene4.mat spreading 18 2890 3072 4 Scene4.mat spreading 18 2890 3072 5 Scene5.mat lemon 6 1480 699 3455 5 Scene5.mat lemon 6 1480 699 3455 5 Scene5.mat lemon 6 6 1605 1716 5 Scene5.mat lemon 6 1605 2338 24665			I ·			
3 Scene3.mat pause 0 1498 1572 1833 3 Scene3.mat transporting 20 1839 1992 2068 3 Scene3.mat pause 0 1992 2068 3 Scene3.mat reaching 14 2068 2183 3 Scene3.mat pause 0 2183 2259 2757 3 Scene3.mat pouringsingle 13 2259 2757 3 Scene3.mat pause 0 2757 2805 3 Scene3.mat reaching 14 2805 2980 3 Scene3.mat reaching 14 2805 2980 3 Scene3.mat pause 0 2757 2805 3 Scene3.mat reaching 14 2805 2980 3 Scene3.mat pause 0 2757 2805 3 Scene3.mat transporting 20 2980 3109 3 Scene3.mat mixing 8 3322 3363 3 Scene3.mat mixing 8 3322 3363 3 Scene3.mat mixing 8 3322 3363 3 Scene3.mat mixing 8 3423 3423 3465 3516 3 Scene3.mat mixing 8 3466 3515 3 Scene3.mat mixing 8 3466 3515 3 Scene3.mat mixing 8 3515 3561 3561 3 Scene3.mat mixing 8 3515 3561 3561 3 Scene3.mat mixing 8 3515 3661 3513 3 Scene3.mat mixing 8 3515 3665 3714 3766 3 Scene3.mat mixing 8 3765 3714 3766 3 Scene3.mat mixing 8 3765 3714 3766 3 Scene3.mat mixing 8 3765 3813 3861 351 3651 3651 3651 3651 3651 3651 365						
3 Scene3.mat transporting 20 1833 1992 3 Scene3.mat transporting 20 1833 1992 3 Scene3.mat pause 0 1992 2068 3 Scene3.mat pause 0 2183 2298 2757 3 Scene3.mat pause 0 2183 2299 2757 3 Scene3.mat pause 0 2757 2806 3 Scene3.mat pause 0 2757 2806 3 Scene3.mat reaching 14 2805 2980 3109 3 Scene3.mat transporting 14 2805 2980 3109 3 Scene3.mat transporting 20 2980 3109 3 Scene3.mat mixing 8 3363 3322 3363 3 Scene3.mat mixing 8 3363 3423 3465 3 Scene3.mat mixing 8 3442 3466 3 Scene3.mat mixing 8 3465 3515 3 Scene3.mat mixing 8 3461 3615 3 Scene3.mat mixing 8 361 3615 3 Scene3.mat mixing 8 3615 3665 3 Scene3.mat mixing 8 3616 3816 3 Scene3.mat mixing 8 3714 3765 3 Scene3.mat mixing 8 3714 3765 3 Scene3.mat mixing 8 3616 3816 3 Scene3.mat mixing 8 3714 3765 3 Scene3.mat mixing 8 3616 3811 3 Scene3.mat mixing 8 3714 3765 3 Scene3.mat mixing 8 3616 3811 4 Scene4.mat mixing 8 3616 3816 4 Scene4.mat mixing 9 366 367 4010 5 Scene4.mat mixing 9 366 367 4010 5 Scene4.mat mixing 9 366 367 4010 6 Scene4.mat mixing 9 366 368 4952 6 Scene5.mat mixing 9 366 368 4952 6 Scene6.mat mixing 9 366 3			•			
3 Scene3.mat transporting 20 1839 1992 2088 3 Scene3.mat pause 0 1992 2088 3 Scene3.mat pause 0 2183 2268 2183 2268 2183 3 Scene3.mat pouringsingle 13 2268 22757 3 Scene3.mat pouringsingle 13 2268 22757 3 Scene3.mat pause 0 2763 2280 2757 3 Scene3.mat pause 0 2763 2280 2980 3 Scene3.mat transporting 20 2980 3109 3322 3 Scene3.mat mixing 8 3322 3363 3 Scene3.mat mixing 8 3322 3363 3 Scene3.mat mixing 8 3323 3 Scene3.mat mixing 8 3423 3 Scene3.mat mixing 8 3423 3 Scene3.mat mixing 8 3425 3 Scene3.mat mixing 8 3455 3 Scene3.mat mixing 8 3455 3 Scene3.mat mixing 8 3515 3561 3 Scene3.mat mixing 8 3515 3561 3561 3 Scene3.mat mixing 8 3561 3615 3 Scene3.mat mixing 8 3615 3 Scene3.mat mixing 8 3615 3615 3 Scene3.mat mixing 8 3615 3651 3 Scene3.mat mixing 8 3615 3651 3 Scene3.mat mixing 8 3615 3 Scene3.mat mixing 9 Scene3.mat 9 Scene3.mat 9 Scene3.mat 9 Scene3.mat 9 Scene3.mat 9			I ·			
3 Scene3.mat pause 0 1992 2088 2183 3 Scene3.mat pause 0 2183 2269 2757 2805 3 Scene3.mat pause 0 2757 2805 3 Scene3.mat pause 0 2757 2805 3 Scene3.mat pause 0 2757 2805 3 Scene3.mat reaching 14 2805 2980 3109 3 Scene3.mat transporting 20 2990 3109 3 Scene3.mat mixing 8 3322 3363 3 Scene3.mat mixing 8 3322 3363 3 Scene3.mat mixing 8 3322 3363 3 Scene3.mat mixing 8 3423 3465 3 Scene3.mat mixing 8 3615 3615 3 Scene3.mat mixing 8 3615 3615 3 Scene3.mat mixing 8 3615 3615 3615 3 Scene3.mat mixing 8 3651 3615 3615 3 Scene3.mat mixing 8 3665 3714 3765 3 Scene3.mat mixing 8 3661 3912 3957 3013 3 Scene3.mat mixing 8 3615 3665 3714 3765 3 Scene3.mat mixing 8 3615 3615 365 3 Scene3.mat mixing 8 3615 3615 365 3 Scene3.mat mixing 8 3615 365 3714 3765 3 Scene3.mat mixing 8 3615 365 3714 3765 3 Scene3.mat mixing 8 3615 365 3714 3765 3 Scene3.mat mixing 8 3613 3861 3912 3957 3010 3 Scene3.mat mixing 8 3613 3861 3912 3957 4010 3 Scene3.mat mixing 8 3613 3861 3912 3957 4010 3 Scene3.mat mixing 8 3613 3861 3912 3957 4010 3 Scene3.mat mixing 8 3613 3861 3912 3957 4010 3 Scene3.mat mixing 8 4010 4058 4058 4102 4147 4 Scene4.mat transporting 20 1123 1233 448 4 Scene4.mat transporting 20 1123 1233 4 Scene3.mat mixing 8 4010 4058 4058 4102 4147 4 Scene4.mat transporting 20 1123 1233 4 Scene4.mat transporting 20 1123 1233 4 Scene4.mat spreading 18 2532 2629 2759 345 5 Scene5.mat transporting 20 1166 1365 5 Scene5.mat transporting 20 1261 12333 5 Scene5.mat transporting 20 1261 12333 2465 5 Scene5.m			l · ·			
3   Scene3.mat   reaching   14   2068   2183   2269   3   Scene3.mat   pause   0   2157   2805   2805   3   Scene3.mat   reaching   14   2805   2980   3   3   Scene3.mat   reaching   14   2805   2980   3   3   Scene3.mat   reaching   14   2805   2980   3   3   Scene3.mat   transporting   20   2980   3   3   3   Scene3.mat   mixing   8   3   3   3   3   3   3   3   Scene3.mat   mixing   8   3   3   3   3   3   3   3   3   3						
3   Scene3.mat   pause   0   2183   2269   2757   2805   3   Scene3.mat   pause   0   2757   2805   2805   3   Scene3.mat   ransporting   14   2805   2980   3109   3   Scene3.mat   ransporting   20   2980   3109   3322   3363   3   Scene3.mat   mixing   8   3322   3363   3   Scene3.mat   mixing   8   3322   3363   3423   3   Scene3.mat   mixing   8   3465   3515   3561   3   Scene3.mat   mixing   8   3465   3515   3   Scene3.mat   mixing   8   3465   3515   3   Scene3.mat   mixing   8   3465   3515   3   Scene3.mat   mixing   8   3651   3655   3   Scene3.mat   mixing   8   3665   3714   3765   3   Scene3.mat   mixing   8   3665   3714   3765   3   Scene3.mat   mixing   8   3665   3714   3765   3   Scene3.mat   mixing   8   3661   3615   3   Scene3.mat   mixing   8   3661   3615   3   Scene3.mat   mixing   8   3661   3615   3   Scene3.mat   mixing   8   3613   3912   3957   3   Scene3.mat   mixing   8   3912   3957   4010   4058   3   Scene3.mat   mixing   8   4006   4102   4147   4   Scene4.mat   cutting   8   4058   4102   4147   4   Scene4.mat   cutting   8   4058   4102   4147   4   Scene4.mat   cutting   2   356   567   4   Scene4.mat   cutting   2   2   356   567   3   3   3   3   3   3   3   3   3			=			
3   Scene3 mat   pause   0   2757   2805   3   Scene3 mat   transporting   14   2805   2980   3109   3322   3363   3   Scene3 mat   transporting   20   2980   3109   3322   3363   3   Scene3 mat   mixing   8   3322   3363   3   Scene3 mat   mixing   8   3322   3363   3   Scene3 mat   mixing   8   3423   3465   3453   3   Scene3 mat   mixing   8   3423   3465   3453   3   Scene3 mat   mixing   8   3465   3515   3561   3   Scene3 mat   mixing   8   3561   3561   3   Scene3 mat   mixing   8   3561   3561   3561   3   Scene3 mat   mixing   8   3561   3615   3665   3714   3765   3   Scene3 mat   mixing   8   3765   3813   3   Scene3 mat   mixing   8   3765   3813   3   Scene3 mat   mixing   8   3765   3813   3   Scene3 mat   mixing   8   3813   3861   3   Scene3 mat   mixing   8   3912   3957   4010   4058   3   Scene3 mat   mixing   8   3912   3957   4010   4058   3   Scene3 mat   mixing   8   3957   4010   4058   3   Scene3 mat   mixing   8   4010   4058   3   Scene3 mat   mixing   8   4010   4058   4   Scene4 mat   cutting   2   356   567   1123   4   Scene4 mat   transporting   20   1123   1438   4   Scene4 mat   transporting   20   1123   1438   4   Scene4 mat   transporting   20   1488   1708   4   Scene4 mat   transporting   20   1488   1708   4   Scene4 mat   transporting   20   1498   2598   4   Scene4 mat   transporting   20   1498   2599   2598   4   Scene4 mat   transporting   20   1498   2599   2598   4   Scene4 mat   transporting   20   1498   2699   2759   2598   4   Scene4 mat   transporting   20   1498   2699   2759   2598   2598   2599   25			•			
3   Scene3 mat   pause   0   2757   2805   2980   3   3   Scene3 mat   transporting   14   2805   2980   3   3   3   Scene3 mat   transporting   20   2980   3   3   3   3   3   3   3   3   3			=			
3   Scene3.mat   reaching   14   2805   2980   3109   3302   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3302   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   3303   3009   33						
3   Scene3.mat   transporting   20   2980   3109   3322   3363   35cene3.mat   mixing   8   3363   3423   3436   3423   3436   3423   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436   3433   3436			=			
3   Scene3.mat			•			
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3   Scene3.mat   mixing   8   4102   4147     4   Scene4.mat   cutting   2   356   567     4   Scene4.mat   pause   0   567   1123     4   Scene4.mat   transporting   20   1123   1233     4   Scene4.mat   transporting   20   1498   1708     4   Scene4.mat   transporting   20   1498   1708     4   Scene4.mat   transporting   20   1498   1708     5   Scene4.mat   transporting   20   1498   1708     4   Scene4.mat   reaching   14   1847   1982     4   Scene4.mat   transporting   20   1982   2508     4   Scene4.mat   pause   0   2508   2532     4   Scene4.mat   spreading   18   2632   2629     4   Scene4.mat   spreading   18   2629   2759     4   Scene4.mat   spreading   18   2629   2759     4   Scene4.mat   spreading   18   2759   2853     4   Scene4.mat   spreading   18   2990   3072     5   Scene4.mat   spreading   18   3072   3159     4   Scene4.mat   spreading   18   3072   3159     4   Scene4.mat   spreading   14   3435   3629     4   Scene4.mat   transporting   20   3159   3435     4   Scene4.mat   transporting   20   3159   3435     4   Scene4.mat   eating   4   3858   4952     4   Scene4.mat   eating   4   4952   5486     4   Scene4.mat   eating   4   5486   6294     4   Scene4.mat   eating   4   5486   6294     5   Scene5.mat   transporting   20   1166   1358     5   Scene5.mat   temon   6   1490   1695     5   Scene5.mat   temon   6   1490   1695     5   Scene5.mat   temon   6   1490   1695     5   Scene5.mat   temon   6   1605   1716     5   Scene5.mat   temon   6   1900   1980     5   Scene5.mat   transporting   20   2161   2333		Scene3.mat	_		4058	4102
4         Scene4.mat         cutting         2         356         567           4         Scene4.mat         pause         0         567         1123           4         Scene4.mat         transporting         20         1123         1233           4         Scene4.mat         transporting         20         1498         1708           4         Scene4.mat         transporting         20         1498         1708           4         Scene4.mat         pause         0         1708         1847           4         Scene4.mat         transporting         20         1982         2508           4         Scene4.mat         transporting         20         1982         2508           4         Scene4.mat         spreading         18         2532         2629           4         Scene4.mat         spreading         18         2629         2759           4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         3072         3159		Scene3.mat	_		4102	4147
4         Scene4.mat         transporting         20         1123         1233           4         Scene4.mat         pause         0         1233         1498           4         Scene4.mat         transporting         20         1498         1708           4         Scene4.mat         reaching         14         1847         1982           4         Scene4.mat         transporting         20         1982         2508           4         Scene4.mat         pause         0         2508         2532           4         Scene4.mat         spreading         18         2532         2629           4         Scene4.mat         spreading         18         2639         2759           4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         2990         3072           4         Scene4.mat         spreading         18         2990         3072           4         Scene4.mat         spreading         18         293         3159 <t< td=""><td>4</td><td></td><td></td><td>2</td><td>356</td><td>567</td></t<>	4			2	356	567
4         Scene4.mat         pause         0         1233         1498           4         Scene4.mat         transporting         20         1498         1708           4         Scene4.mat         pause         0         1708         1847           4         Scene4.mat         reaching         14         1847         1982           4         Scene4.mat         pause         0         2508         2532           4         Scene4.mat         spreading         18         2532         2629           4         Scene4.mat         spreading         18         2629         2759           4         Scene4.mat         spreading         18         2759         2853           4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         spreading         18         3072         3159	4	Scene4.mat	pause	0	567	1123
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4         Scene4.mat         reaching         14         1847         1982         2508           4         Scene4.mat         transporting         20         1982         2508         2532         2629         2508         2532         2629         2759         2853         2629         2759         2853         2629         2759         2853         2950         2759         2853         2950         2759         2853         2990         3072         2853         2990         3072         3159         3435         2853         2990         3072         3159         3435         4859         2853         2990         3072         3159         3435         4859         2900         3072         3159         3435         3459         3459         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455         3459         3455		Scene4.mat	transporting	20		1708
4         Scene4.mat         transporting         20         1982         2508           4         Scene4.mat         spreading         18         2532         2629           4         Scene4.mat         spreading         18         2629         2759           4         Scene4.mat         spreading         18         2759         2853           4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         2990         3072           4         Scene4.mat         spreading         18         2990         3072           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         transporting         20         3159         3435           4         Scene4.mat         transporting         4         3435         3629           4         Scene4.mat         eating         4         3858         4952		Scene4.mat	=	0		1847
4         Scene4.mat         pause         0         2508         2532           4         Scene4.mat         spreading         18         2532         2629           4         Scene4.mat         spreading         18         2629         2759           4         Scene4.mat         spreading         18         2759         2853           4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         2990         3072           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         transporting         20         3159         3435           4         Scene4.mat         reaching         14         3435         3629           4         Scene4.mat         pause         0         3629         3858           4         Scene4.mat         eating         4         3858         4952           5         Scene4.mat         eating         4         4952         5486 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>1982</td></t<>						1982
4         Scene4.mat         spreading         18         2532         2629           4         Scene4.mat         spreading         18         2629         2759           4         Scene4.mat         spreading         18         2759         2853           4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         2990         3072           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         transporting         20         3159         3435           4         Scene4.mat         pause         0         3629         3858           4         Scene4.mat         eating         4         4952         5486           4         Scene4.mat         eating         4         5486         6294			transporting			
4         Scene4.mat         spreading         18         2629         2759           4         Scene4.mat         spreading         18         2759         2853           4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         2990         3072           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         transporting         20         3159         3435           4         Scene4.mat         reaching         14         3435         3629           4         Scene4.mat         pause         0         3629         3858           4         Scene4.mat         eating         4         3858         4952           4         Scene4.mat         eating         4         4952         5486           4         Scene4.mat         eating         4         5486         6294           4         Scene5.mat         eating         4         5486         6294           5         Scene5.mat         reaching         14         747         914           5 <td></td> <td></td> <td>· ·</td> <td></td> <td></td> <td></td>			· ·			
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4         Scene4.mat         spreading         18         2853         2990           4         Scene4.mat         spreading         18         2990         3072           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         transporting         20         3159         3435           4         Scene4.mat         reaching         14         3435         3629           4         Scene4.mat         eating         4         3858         4952           4         Scene4.mat         eating         4         4952         5486           4         Scene4.mat         eating         4         4952         5486           4         Scene4.mat         eating         4         4952         5486           4         Scene4.mat         eating         4         5486         6294           4         Scene4.mat         eating         4         6294         6993           5         Scene5.mat         reaching         14         747         914           5         Scene5.mat         reaching         14         747         914           5						
4         Scene4.mat         spreading         18         2990         3072           4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         transporting         20         3159         3435           4         Scene4.mat         reaching         14         3435         3629           4         Scene4.mat         pause         0         3629         3858           4         Scene4.mat         eating         4         3858         4952           4         Scene4.mat         eating         4         4952         5486           4         Scene4.mat         eating         4         5486         6294           4         Scene4.mat         eating         4         5486         6294           4         Scene4.mat         eating         4         5486         6294           4         Scene5.mat         eating         4         6294         6993           5         Scene5.mat         reaching         14         747         914           5         Scene5.mat         transporting         20         1166         1358           5						
4         Scene4.mat         spreading         18         3072         3159           4         Scene4.mat         transporting         20         3159         3435           4         Scene4.mat         reaching         14         3435         3629           4         Scene4.mat         pause         0         3629         3858           4         Scene4.mat         eating         4         3858         4952           4         Scene4.mat         eating         4         4952         5486           4         Scene5.mat         eating         4         4952         5486           6         Scene5.mat         pause         0         914         1166           5         Scene5.mat         pause         0         914         1166           5         Scene5						
4         Scene4.mat         transporting         20         3159         3435           4         Scene4.mat         reaching         14         3435         3629           4         Scene4.mat         eating         4         3858         4952           4         Scene4.mat         eating         4         4952         5486           4         Scene4.mat         eating         4         5486         6294           4         Scene4.mat         eating         4         6294         6993           5         Scene5.mat         reaching         14         747         914           5         Scene5.mat         pause         0         914         1166           5         Scene5.mat         transporting         20         1166         1358           5         Scene5.mat         lemon         6         1480         1605           5         Scene5.mat         lemon         6         1716         1827           5         Scene5.mat         lemon         6         1827         1900           5         Scene5.mat         lemon         6         1900         1980           5         Sce			_ · ·			
4         Scene4.mat         reaching         14         3435         3629           4         Scene4.mat         pause         0         3629         3858           4         Scene4.mat         eating         4         3858         4952           4         Scene4.mat         eating         4         4952         5486           4         Scene4.mat         eating         4         6294         6993           5         Scene4.mat         eating         4         6294         6993           5         Scene5.mat         reaching         14         747         914           5         Scene5.mat         pause         0         914         1166           5         Scene5.mat         transporting         20         1166         1358           5         Scene5.mat         lemon         6         1480         1605           5         Scene5.mat         lemon         6         1716         1827           5         Scene5.mat         lemon         6         1827         1900           5         Scene5.mat         lemon         6         1900         1980           5         Scene5.mat<						
4         Scene4.mat         pause         0         3629         3858           4         Scene4.mat         eating         4         3858         4952           4         Scene4.mat         eating         4         4952         5486           4         Scene4.mat         eating         4         6294         6993           5         Scene5.mat         reaching         14         747         914           5         Scene5.mat         pause         0         914         1166           5         Scene5.mat         transporting         20         1166         1358           5         Scene5.mat         lemon         6         1480         1605           5         Scene5.mat         lemon         6         1605         1716           5         Scene5.mat         lemon         6         1827         1900           5         Scene5.mat         lemon         6         1900         1980           5         Scene5.mat         pause         0         2161         2333           5         Scene5.mat         transporting         20         2161         2333           5         Scene5.m						
4       Scene4.mat       eating       4       3858       4952         4       Scene4.mat       eating       4       4952       5486         4       Scene4.mat       eating       4       5486       6294         4       Scene4.mat       eating       4       6294       6993         5       Scene5.mat       reaching       14       747       914         5       Scene5.mat       pause       0       914       1166         5       Scene5.mat       transporting       20       1166       1358         5       Scene5.mat       lemon       6       1480       1605         5       Scene5.mat       lemon       6       1605       1716         5       Scene5.mat       lemon       6       1716       1827         5       Scene5.mat       lemon       6       1827       1900         5       Scene5.mat       pause       0       1980       2161         5       Scene5.mat       transporting       20       2161       2333         5       Scene5.mat       pause       0       2333       2462			_			
4       Scene4.mat       eating       4       4952       5486         4       Scene4.mat       eating       4       5486       6294         4       Scene4.mat       eating       4       6294       6993         5       Scene5.mat       reaching       14       747       914         5       Scene5.mat       pause       0       914       1166         5       Scene5.mat       transporting       20       1166       1358         5       Scene5.mat       lemon       6       1480       1605         5       Scene5.mat       lemon       6       1716       1827         5       Scene5.mat       lemon       6       1827       1900         5       Scene5.mat       lemon       6       1900       1980         5       Scene5.mat       pause       0       1980       2161         5       Scene5.mat       transporting       20       2161       2333         5       Scene5.mat       pause       0       2333       2462			=			
4       Scene4.mat       eating       4       5486       6294         4       Scene4.mat       eating       4       6294       6993         5       Scene5.mat       reaching       14       747       914         5       Scene5.mat       pause       0       914       1166         5       Scene5.mat       transporting       20       1166       1358         5       Scene5.mat       lemon       6       1480       1605         5       Scene5.mat       lemon       6       1716       1827         5       Scene5.mat       lemon       6       1827       1900         5       Scene5.mat       lemon       6       1900       1980         5       Scene5.mat       pause       0       1980       2161         5       Scene5.mat       transporting       20       2161       2333         5       Scene5.mat       pause       0       2333       2462			•			
4         Scene4.mat         eating         4         6294         6993           5         Scene5.mat         reaching         14         747         914           5         Scene5.mat         pause         0         914         1166           5         Scene5.mat         transporting         20         1166         1358           5         Scene5.mat         lemon         6         1480         1605           5         Scene5.mat         lemon         6         1605         1716           5         Scene5.mat         lemon         6         1827         1900           5         Scene5.mat         lemon         6         1900         1980           5         Scene5.mat         pause         0         1980         2161           5         Scene5.mat         transporting         20         2161         2333           5         Scene5.mat         pause         0         2333         2462			_			
5         Scene5.mat         reaching         14         747         914           5         Scene5.mat         pause         0         914         1166           5         Scene5.mat         transporting         20         1166         1358           5         Scene5.mat         lemon         6         1480         1605           5         Scene5.mat         lemon         6         1605         1716           5         Scene5.mat         lemon         6         1716         1827           5         Scene5.mat         lemon         6         1827         1900           5         Scene5.mat         lemon         6         1900         1980           5         Scene5.mat         pause         0         1980         2161           5         Scene5.mat         transporting         20         2161         2333           5         Scene5.mat         pause         0         2333         2462			•			
5         Scene5.mat         pause         0         914         1166           5         Scene5.mat         transporting         20         1166         1358           5         Scene5.mat         lemon         6         1480         1605           5         Scene5.mat         lemon         6         1605         1716           5         Scene5.mat         lemon         6         1716         1827           5         Scene5.mat         lemon         6         1900         1980           5         Scene5.mat         pause         0         1980         2161           5         Scene5.mat         transporting         20         2161         2333           5         Scene5.mat         pause         0         2333         2462						
5         Scene5.mat         transporting         20         1166         1358           5         Scene5.mat         lemon         6         1480         1605           5         Scene5.mat         lemon         6         1605         1716           5         Scene5.mat         lemon         6         1716         1827           5         Scene5.mat         lemon         6         1827         1900           5         Scene5.mat         lemon         6         1900         1980           5         Scene5.mat         pause         0         1980         2161           5         Scene5.mat         transporting         20         2161         2333           5         Scene5.mat         pause         0         2333         2462			_			
5         Scene5.mat         lemon         6         1480         1605           5         Scene5.mat         lemon         6         1605         1716           5         Scene5.mat         lemon         6         1716         1827           5         Scene5.mat         lemon         6         1827         1900           5         Scene5.mat         lemon         6         1900         1980           5         Scene5.mat         pause         0         1980         2161           5         Scene5.mat         transporting         20         2161         2333           5         Scene5.mat         pause         0         2333         2462			· ·			
5         Scene5.mat         lemon         6         1605         1716           5         Scene5.mat         lemon         6         1716         1827           5         Scene5.mat         lemon         6         1827         1900           5         Scene5.mat         lemon         6         1900         1980           5         Scene5.mat         pause         0         1980         2161           5         Scene5.mat         transporting         20         2161         2333           5         Scene5.mat         pause         0         2333         2462						
5         Scene5.mat         lemon         6         1716         1827           5         Scene5.mat         lemon         6         1827         1900           5         Scene5.mat         lemon         6         1900         1980           5         Scene5.mat         pause         0         1980         2161           5         Scene5.mat         transporting         20         2161         2333           5         Scene5.mat         pause         0         2333         2462						
5       Scene5.mat       lemon       6       1827       1900         5       Scene5.mat       lemon       6       1900       1980         5       Scene5.mat       pause       0       1980       2161         5       Scene5.mat       transporting       20       2161       2333         5       Scene5.mat       pause       0       2333       2462						
5       Scene5.mat       lemon       6       1900       1980         5       Scene5.mat       pause       0       1980       2161         5       Scene5.mat       transporting       20       2161       2333         5       Scene5.mat       pause       0       2333       2462						
5         Scene5.mat         pause         0         1980         2161           5         Scene5.mat         transporting         20         2161         2333           5         Scene5.mat         pause         0         2333         2462						
5         Scene5.mat         transporting         20         2161         2333           5         Scene5.mat         pause         0         2333         2462						
5 Scene5.mat pause 0 2333 2462						
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## Scenes composition

				MoC	ap
Scene	File	Action	#	startFrame	endFrame
5	Scene5.mat	reaching	14	2462	2712
5	Scene5.mat	transporting	20	2712	2850
5	Scene5.mat	reaching	14	2850	3191
5	Scene5.mat	transporting	20	3191	3354
5	Scene5.mat	pause	0	3354	3424
5	Scene5.mat	table	19	3424	3489
5	Scene5.mat	table	19	3489	3546
5	Scene5.mat	table	19	3546	3605
5	Scene5.mat	table	19	3605	3666
5	Scene5.mat	table	19	3666	3727
5	Scene5.mat	table	19	3727	3785
5	Scene5.mat	table	19	3785	3844
5	Scene5.mat	table	19	3844	3900
5	Scene5.mat	table	19	3900	3958
5	Scene5.mat	table	19	3958	4038

# Video/MoCap synchronization frames

			startF	rame			
		trai	ning		est		
#	Action	MoCap	video	MoCap	video		
1	carrot	1500	90	601	76		
2	cutting	850	165	600	85		
3	dish	350	210	800	60		
4	eating	150	150	580	75		
5	eggs	650	75	550	60		
6	lemon	1470	90	535	60		
7	mezzaluna	570	120	500	60		
8	mixing	800	140	850	45		
9	openbottle	350	135	350	75		
10	pan	1400	570	220	45		
11	pestling	150	100	450	120		
12	pouringmult	1000	90	750	90		
13	pouringsingle	250	140	500	130		
14	reaching	200	110	900	140		
15	rolling	250	90	930	120		
16	salad	110	80	480	120		
17	salting	900	210	450	1		
18	spreading	110	80	800	70		
19	table	350	65	315	90		
20	transporting	500	95	400	75		

		starti	-rame
#	Scene	MoCap	video
1	scene1	1165	120
2	scene2	818	115
3	scene3	932	100
4	scene4	356	1
5	scene5	747	103