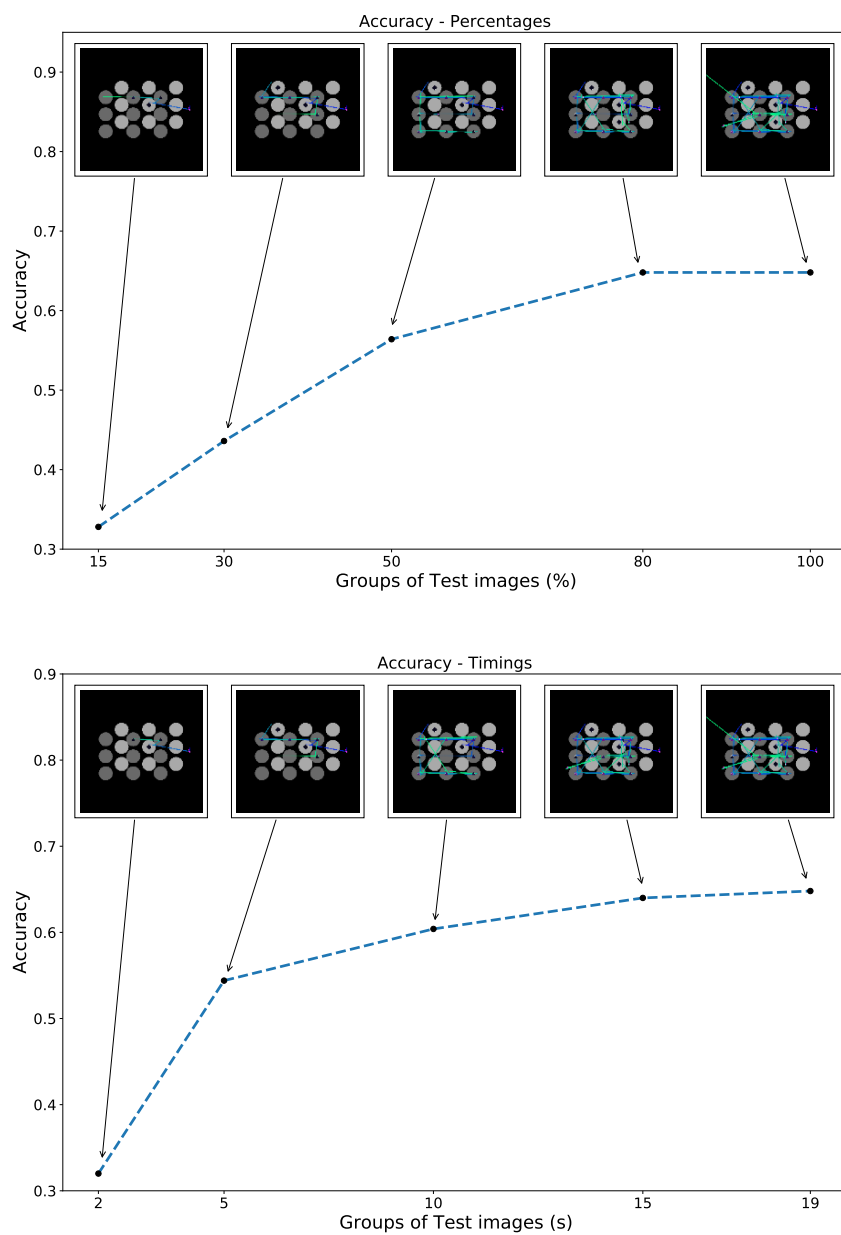


Supplementary material



Supplementary Figure 1. Accuracy of VGG-19 model in CT 2 using subsequences via percentages (li) and time points (lii).

	Left	Middle	Right
Up	49	67	75
Middle	27	21	38
Bottom	33	41	78

	Left	Middle	Right
Up	68	47	76
Middle	40	33	84
Bottom	19	29	40

	Left	Middle	Right
Up	79	36	29
Middle	77	71	52
Bottom	39	20	33

	Left	Middle	Right
Up	21	42	33
Middle	37	83	27
Bottom	70	74	49

	Left	Middle	Right
Up	43	30	84
Middle	41	28	21
Bottom	84	24	43

	Left	Middle	Right
Up	39	62	78
Middle	76	38	61
Bottom	38	20	53

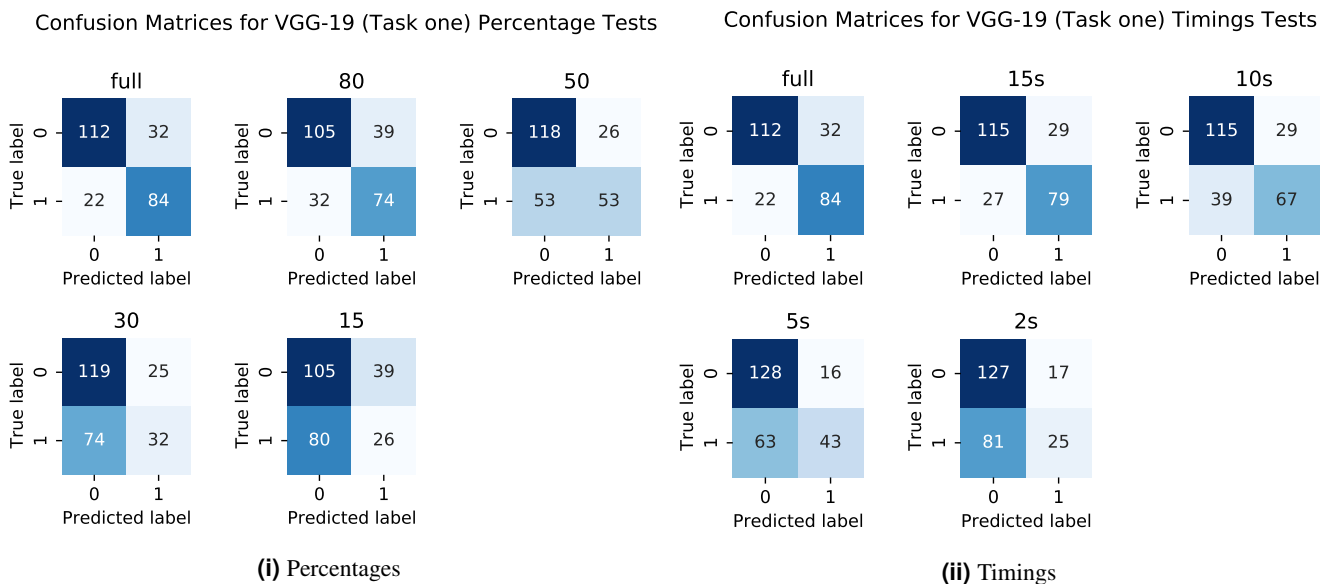
	Left	Middle	Right
Up	79	34	56
Middle	40	17	52
Bottom	39	65	73

	Left	Middle	Right
Up	79	39	59
Middle	47	37	19
Bottom	60	83	34

	Left	Middle	Right
Up	43	74	62
Middle	82	57	37
Bottom	41	52	19

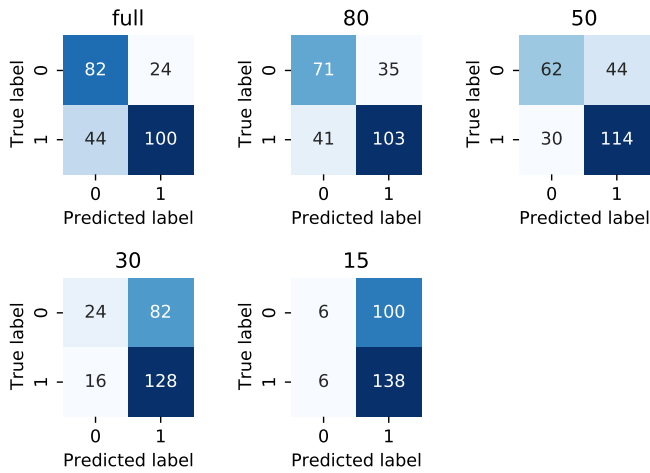
	Left	Middle	Right
Up	74	40	65
Middle	64	78	36
Bottom	42	53	80

Supplementary Figure 2. The games used in the experiment grouped by types. The payoffs of the Row/Column player are located in the Bottom-left/Upper-right part of the nine cells. The Nash equilibrium payoffs is indicated in grey. The Naive strategy is underlined with a solid line and the Coordination strategy with a dashed line.



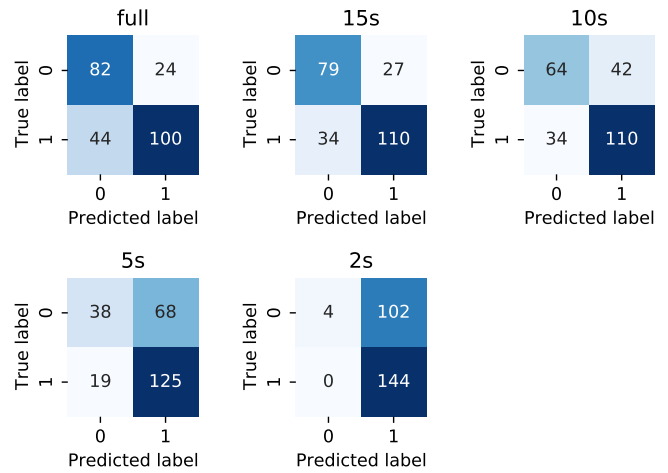
Supplementary Figure 3. Confusion Matrices of VGG19-model in CT 1 using subsequences via percentages (3i) and time points (3ii)

Confusion Matrices for SVM (Task one) Percentage Tests



(i) Percentages

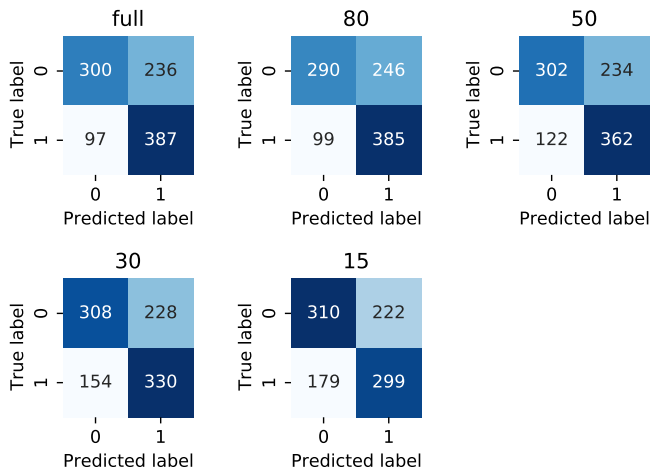
Confusion Matrices for SVM (Task one) Timings Tests



(ii) Timings

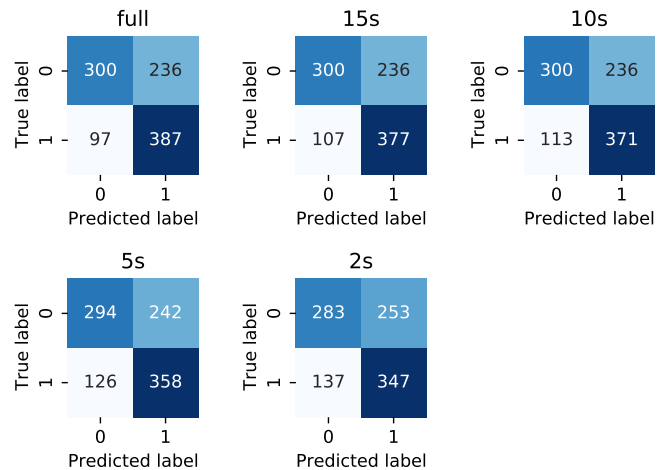
Supplementary Figure 4. Confusion Matrices of SVM-model in CT 1 using subsequences via percentages (4i) and time points (4ii)

Confusion Matrices for Logit (Task one) Percentage Tests



(i) Percentages

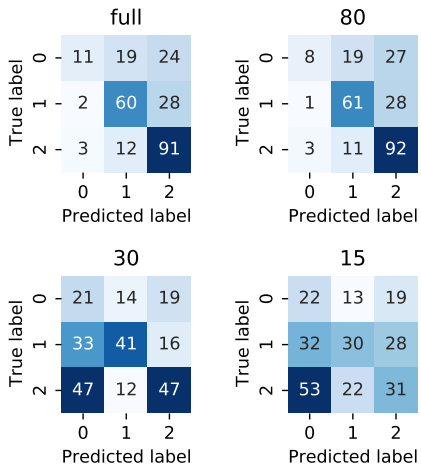
Confusion Matrices for Logit (Task one) Timings Tests



(ii) Timings

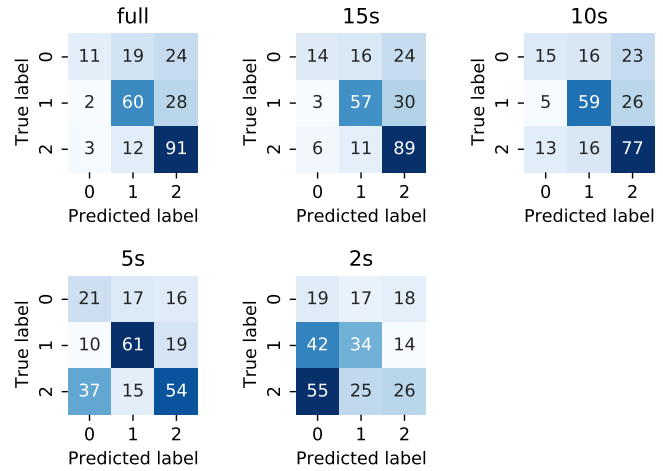
Supplementary Figure 5. Confusion Matrices of Logit regression model in CT 1 using subsequences via percentages (5i) and time points (5ii)

Confusion Matrices for VGG19 (Task two) Percentage Tests



(i) Percentages

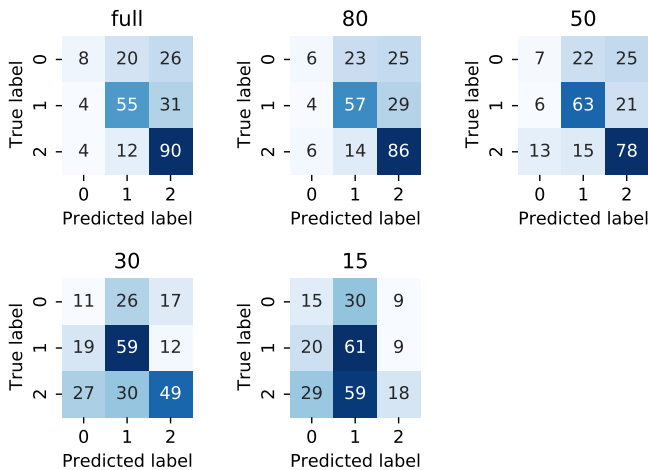
Confusion Matrices for VGG19 (Task two) Timings Tests



(ii) Timings

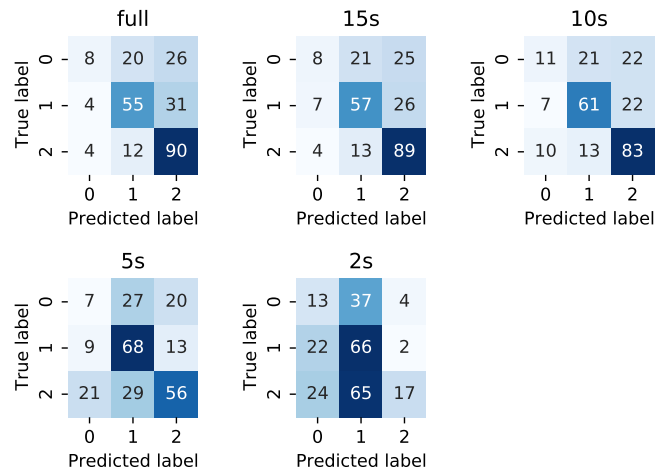
Supplementary Figure 6. Confusion Matrices of VGG19-model in CT 2 using subsequences via percentages (6i) and time points (6ii)

Confusion Matrices for SVM (Task two) Percentage Tests



(i) Percentages

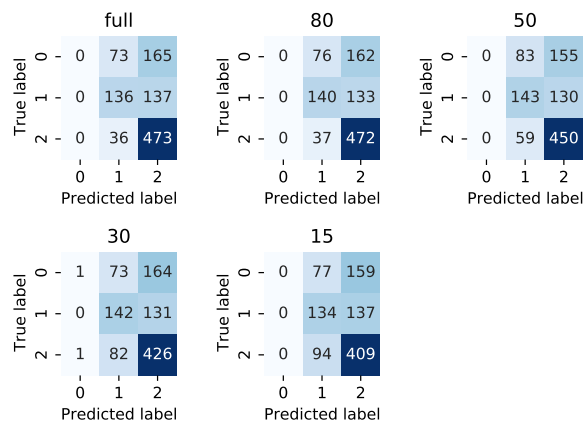
Confusion Matrices for SVM (Task two) Timings Tests



(ii) Timings

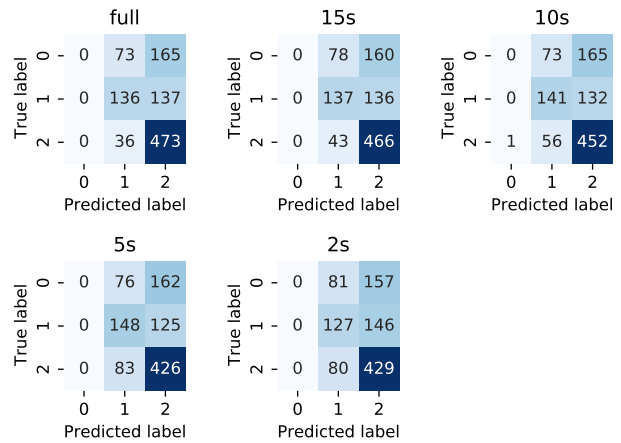
Supplementary Figure 7. Confusion Matrices of SVM-model in CT 2 using subsequences via percentages (7i) and time points (7ii)

Confusion Matrices for Multinomial Logit (Task two) Percentage Tests



(i) Percentages

Confusion Matrices for Multinomial Logit (Task two) Timings Tests



(ii) Timings

Supplementary Figure 8. Confusion Matrices of Multinomial Logit regression model in CT 2 using subsequences via percentages (8i) and time points (8ii)

Percentages	Variable	Estimate	Std. Error	z value	Pr(> z)
Full	(Intercept)	0.6289	0.2918	2.16	0.0312
	Own	-4.2517	0.5469	-7.77	0.0000
	Other	2.8274	0.5590	5.06	0.0000
	Intracell	-3.0616	1.4590	-2.10	0.0359
80	(Intercept)	0.6058	0.2737	2.21	0.0269
	Own	-4.1175	0.5168	-7.97	0.0000
	Other	2.1976	0.5102	4.31	0.0000
	Intracell	-2.1822	1.3381	-1.63	0.1029
50	(Intercept)	0.5141	0.2426	2.12	0.0340
	Own	-3.4802	0.4586	-7.59	0.0000
	Other	1.4195	0.4386	3.24	0.0012
	Intracell	-0.9786	1.1078	-0.88	0.3770
30	(Intercept)	0.3457	0.1958	1.77	0.0774
	Own	-2.5292	0.3724	-6.79	0.0000
	Other	1.3784	0.3724	3.70	0.0002
	Intracell	-1.2306	0.7986	-1.54	0.1233
15	(Intercept)	0.1362	0.1475	0.92	0.3557
	Own	-1.7372	0.2930	-5.93	0.0000
	Other	1.4423	0.3140	4.59	0.0000
	Intracell	-0.5133	0.4307	-1.19	0.2334
Timings	Variable	Estimate	Std. Error	z value	Pr(> z)
Full	(Intercept)	0.6289	0.2918	2.16	0.0312
	Own	-4.2517	0.5469	-7.77	0.0000
	Other	2.8274	0.5590	5.06	0.0000
	Intracell	-3.0616	1.4590	-2.10	0.0359
15s	(Intercept)	0.5912	0.2785	2.12	0.0338
	Own	-3.9147	0.5151	-7.60	0.0000
	Other	2.3470	0.5233	4.49	0.0000
	Intracell	-2.3422	1.3380	-1.75	0.0800
10s	(Intercept)	0.6270	0.2614	2.40	0.0164
	Own	-3.8105	0.4868	-7.83	0.0000
	Other	1.8515	0.4853	3.81	0.0001
	Intracell	-1.7461	1.2094	-1.44	0.1488
5s	(Intercept)	0.6157	0.2363	2.61	0.0092
	Own	-3.3889	0.4371	-7.75	0.0000
	Other	1.1590	0.4334	2.67	0.0075
	Intracell	-0.7870	0.9360	-0.84	0.4005
2s	(Intercept)	0.4281	0.1781	2.40	0.0162
	Own	-2.5519	0.3409	-7.48	0.0000
	Other	0.6410	0.3451	1.86	0.0633
	Intracell	0.2406	0.5172	0.47	0.6418

Supplementary Table 1. Logistic (*Logit*) Regression Estimates for Task 1.

Percentages	Variable	Estimate	Std. Error	Pr(> z)	z value
Full	Intracell (Naive)	-3.01	1.92	0.12	-1.57
	Other (Naive)	-4.40	0.86	0.00	-5.10
	Own (Naive)	1.28	0.66	0.05	1.94
	Intercept (Naive)	0.68	0.39	0.08	1.72
	Intracell (NE)	-3.07	1.65	0.06	-1.86
	Other (NE)	1.18	0.67	0.08	1.77
	Own (NE)	-2.97	0.64	0.00	-4.64
	Intercept (NE)	1.51	0.35	0.00	4.35
80	Intracell (Naive)	-1.39	1.79	0.44	-0.78
	Other (Naive)	-3.63	0.79	0.00	-4.59
	Own (Naive)	1.47	0.62	0.02	2.37
	Intercept (Naive)	0.45	0.37	0.22	1.22
	Intracell (NE)	-1.75	1.56	0.26	-1.12
	Other (NE)	0.95	0.61	0.12	1.56
	Own (NE)	-2.81	0.61	0.00	-4.60
	Intercept (NE)	1.40	0.33	0.00	4.26
50	Intracell (Naive)	-0.96	1.53	0.53	-0.63
	Other (Naive)	-3.01	0.69	0.00	-4.34
	Own (Naive)	1.29	0.56	0.02	2.29
	Intercept (Naive)	0.41	0.33	0.22	1.23
	Intracell (NE)	-0.96	1.35	0.48	-0.71
	Other (NE)	0.45	0.53	0.39	0.86
	Own (NE)	-2.43	0.55	0.00	-4.39
	Intercept (NE)	1.37	0.30	0.00	4.61
30	Intracell (Naive)	-1.60	1.08	0.14	-1.48
	Other (Naive)	-3.09	0.59	0.00	-5.21
	Own (Naive)	0.48	0.46	0.29	1.05
	Intercept (Naive)	0.73	0.27	0.01	2.70
	Intracell (NE)	-1.83	0.97	0.06	-1.89
	Other (NE)	0.09	0.45	0.85	0.19
	Own (NE)	-2.09	0.46	0.00	-4.55
	Intercept (NE)	1.48	0.25	0.00	5.96
15	Intracell (Naive)	-0.57	0.61	0.35	-0.94
	Other (Naive)	-2.67	0.52	0.00	-5.12
	Own (Naive)	0.42	0.37	0.27	1.11
	Intercept (Naive)	0.63	0.21	0.00	2.95
	Intracell (NE)	-0.56	0.54	0.30	-1.03
	Other (NE)	0.28	0.38	0.47	0.72
	Own (NE)	-1.47	0.37	0.00	-3.95
	Intercept (NE)	1.25	0.19	0.00	6.47

Supplementary Table 2. Multinomial Regression Estimates for Task 2 (percentages).

Timings	Variable	Estimate	Std. Error	Pr(> z)	z value
Full	Intracell (Naive)	-3.01	1.92	0.12	-1.57
	Other (Naive)	-4.40	0.86	0.00	-5.10
	Own (Naive)	1.28	0.66	0.05	1.94
	Intercept (Naive)	0.68	0.39	0.08	1.72
	Intracell (NE)	-3.07	1.65	0.06	-1.86
	Other (NE)	1.18	0.67	0.08	1.77
	Own (NE)	-2.97	0.64	0.00	-4.64
	Intercept (NE)	1.51	0.35	0.00	4.35
15s	Intracell (Naive)	-1.88	1.80	0.30	-1.05
	Other (Naive)	-3.53	0.80	0.00	-4.39
	Own (Naive)	1.36	0.64	0.03	2.13
	Intercept (Naive)	0.47	0.38	0.21	1.24
	Intracell (NE)	-2.38	1.56	0.13	-1.53
	Other (NE)	1.00	0.63	0.11	1.58
	Own (NE)	-2.77	0.61	0.00	-4.52
	Intercept (NE)	1.47	0.34	0.00	4.34
10s	Intracell (Naive)	-1.55	1.68	0.35	-0.93
	Other (Naive)	-3.07	0.76	0.00	-4.06
	Own (Naive)	1.39	0.62	0.02	2.26
	Intercept (Naive)	0.38	0.37	0.30	1.04
	Intracell (NE)	-1.81	1.44	0.21	-1.25
	Other (NE)	0.67	0.59	0.25	1.14
	Own (NE)	-2.70	0.59	0.00	-4.61
	Intercept (NE)	1.49	0.32	0.00	4.64
5s	Intracell (Naive)	-1.79	1.36	0.19	-1.32
	Other (Naive)	-2.95	0.69	0.00	-4.29
	Own (Naive)	1.00	0.57	0.08	1.77
	Intercept (Naive)	0.50	0.34	0.14	1.48
	Intracell (NE)	-1.45	1.13	0.20	-1.29
	Other (NE)	-0.01	0.53	0.98	-0.02
	Own (NE)	-2.58	0.53	0.00	-4.83
	Intercept (NE)	1.60	0.29	0.00	5.44
2s	Intracell (Naive)	-1.73	0.80	0.03	-2.18
	Other (Naive)	-3.03	0.57	0.00	-5.36
	Own (Naive)	0.18	0.44	0.68	0.41
	Intercept (Naive)	0.85	0.26	0.00	3.25
	Intracell (NE)	-0.36	0.66	0.58	-0.55
	Other (NE)	-0.55	0.43	0.20	-1.29
	Own (NE)	-2.30	0.43	0.00	-5.35
	Intercept (NE)	1.60	0.23	0.00	6.86

Supplementary Table 3. Multinomial Regression Estimates for Task 2 (timings).

Intra-individual consistency in decision strategies across games

Level of consistency	100%	90%	80%	70%	Total
Proportion of Subjects	14%	11%	13%	14%	51%
Number of Subjects	34	26	31	33	124

Supplementary Table 4. Proportion and number of participants who use the same strategy 100%, 90%, 80% and 70% of the time over the course of the ten games.