

Supplemental Material

Supplemental Table 1.
Average Complexity Scores Per Sub-Category According to Group Assignment

Video Title	Visual	Auditory	Narrative	Emotional	Group
Moderna Museet	2.00	2.50	1.50	1.36	1
Fotografiska	1.83	1.00	2.00	1.93	1
Storkyrkan	2.83	3.00	2.00	1.00	1
Solna Centrum	2.50	1.50	2.00	1.29	1
Vasa Museet	2.67	2.50	2.00	1.21	1
Gamla Stan	3.50	3.00	2.50	1.64	1
Kungsträdgården	2.00	2.00	2.50	1.00	1
Stadshuset	2.33	3.00	2.50	1.14	1
Hagaparken	2.67	1.00	2.50	1.14	1
Odenplan	2.83	4.00	3.00	1.07	1
Karlaplan	2.33	1.50	3.00	1.07	1
Filmstaden Sergel	2.67	3.00	3.50	1.21	1
Central Station	3.00	2.00	1.00	1.93	2
KI Sjukhuset	4.50	2.50	1.50	2.43	2
Humlegården	1.67	1.50	2.00	1.07	2
Royal Palace	2.17	3.00	2.00	1.00	2
Strömkajen	2.50	3.00	2.00	1.29	2
Skansen	2.33	1.50	2.50	1.14	2
Stadsbiblioteket	1.50	1.00	2.50	1.43	2
Skinnarviksberget	1.83	3.50	2.50	1.21	2
Nytorget	2.33	3.00	2.50	1.07	2
Vasaparken	2.33	2.50	2.50	1.00	2
Globen	3.00	3.00	3.50	1.14	2
Grona Lund	2.83	3.00	3.50	1.14	2

Supplemental Table 2.
Differences in Average Complexity Between Groups of Video Stimuli

	Complexity Category			
	Visual	Auditory	Narrative	Emotional
Group 1	2.51	2.33	2.42	1.26
Group 2	2.00	2.46	2.33	1.32
<i>Difference</i>	0.01	-0.13	0.08	-0.07

Supplemental Table 3.
Average Intraclass Correlation Coefficients of Complexity Sub-Categories

Visual Complexity Measure	Intraclass Correlation Coefficient
Background	0.80
Movement	0.73
Number of Characters	0.82
Auditory Complexity Measure	
Background Audio	0.88
Narrative Complexity Measure	
Storyline	0.62
Emotional Complexity	
Excitement	0.81
Joy	0.77
Sadness	not enough variance
Anger	not enough variance
Disgust	not enough variance
Fear	not enough variance
Shame	not enough variance

Supplemental Table 4. Clusters activated by memory encoding (N = 24)

Anatomical region	BA	k_E	$p_{FDR-corr}$	TFCE Score	X	Y	Z
Superior Temporal Gyrus	22	39776	< 0.001	23232.58	-58	-18	0
Superior Temporal Gyrus	22		< 0.001	20003.64	-56	-10	-6
Middle Temporal Gyrus*	21		< 0.001	19372.18	-58	-30	0
Supplementary Motor Area	6	167	0.004	297.57	2	12	62
Insula	13	1	0.034	327.79	-26	20	-12
Dorsal Posterior Cingulate Cortex	31	225	0.025	0.008	0	-58	34
Postcentral Gyrus	1	1	0.024	239.54	48	-20	54
Superior Parietal Gyrus	7	65	0.026	183.80	28	-50	56
Inferior Frontal Gyrus (Pars Opercularis)	8	1	0.048	167.94	48	18	36
Cerebellum Lobule IV/V	-	1	0.049	239.54	-20	-32	-30

* cluster extends to the hippocampus

Supplemental Table 5 Clusters activated by memory retrieval for all participants (N = 29)*

Anatomical region	BA	k_E	$p_{FDR-corr}$	TFCE Score	X	Y	Z
Premotor Cortex*	6	11488	0.003	3060.19	-26	8	52
Dorsolateral Superior Frontal Gyrus	8		0.003	2848.31	-16	18	40
Medial Superior Frontal Gyrus	8		0.003	2770.88	-8	20	44
Cerebellum Lobule IX	-	149	0.014	357.08	2	-46	-52
Medulla	-		0.031	287.78	2	-36	-52
Cerebellum Lobule VIII	-	97	0.017	341.96	26	-74	-52
Cerebellum Lobule VII	-		0.025	317.70	36	-70	-50
Cerebellum Lobule Crus II	-		0.032	309.78	42	-70	-42
Caudate	-	54	0.037	307.14	2	-2	22
Caudate	-		0.045	294.45	-4	-8	24

* analysis restricted to initial 10s of each memory retrieval trial

**cluster extends to regions including dorsolateral prefrontal cortex, angular gyrus, inferior temporal cortex, and the precuneus