

VIDEO REPORT

Professor of Psychology Les Parrott on Empathy



STRONGEST SECOND

0:04

after the first three seconds

STEEPEST FALL

47%

0:12 to 0:15

WEAKEST 3 SECONDS

0:45 to 0:48

lowest stretch of the curve

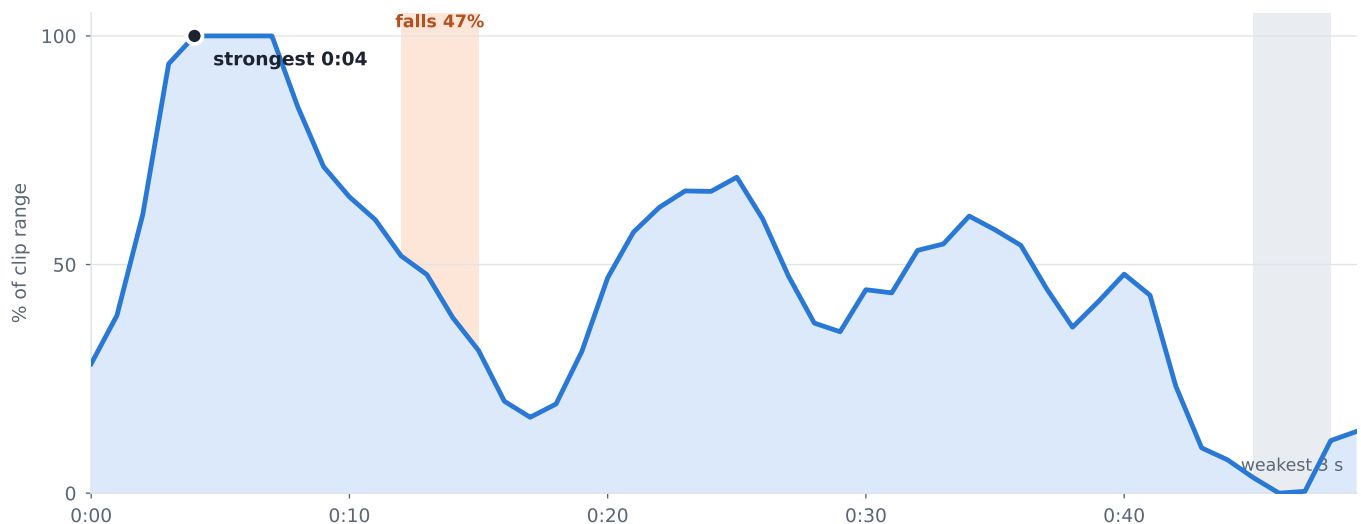
AVERAGE LEVEL

47%

of this clip's own range

Predicted response across the video

Each point is one second. The scale is this clip's own range: 0 is its lowest second, 100 its highest.



What the model predicts

- After the first three seconds, the predicted brain response peaks at 0:04, the predicted response falls 47% between 0:12 and 0:15, and the weakest 3-second stretch is 0:45 to 0:48.
- After the fall at 0:15 the predicted response climbs back to 88% of its pre-fall level by 0:38, the strongest moment after the opening.
- The auditory network has the highest predicted response for 94% of the clip, the attention network for 6%.
- Speech is present in 96% of the seconds; the words are set against the curve on the later pages.

In this report

Brain networks: which of the four networks leads, and when

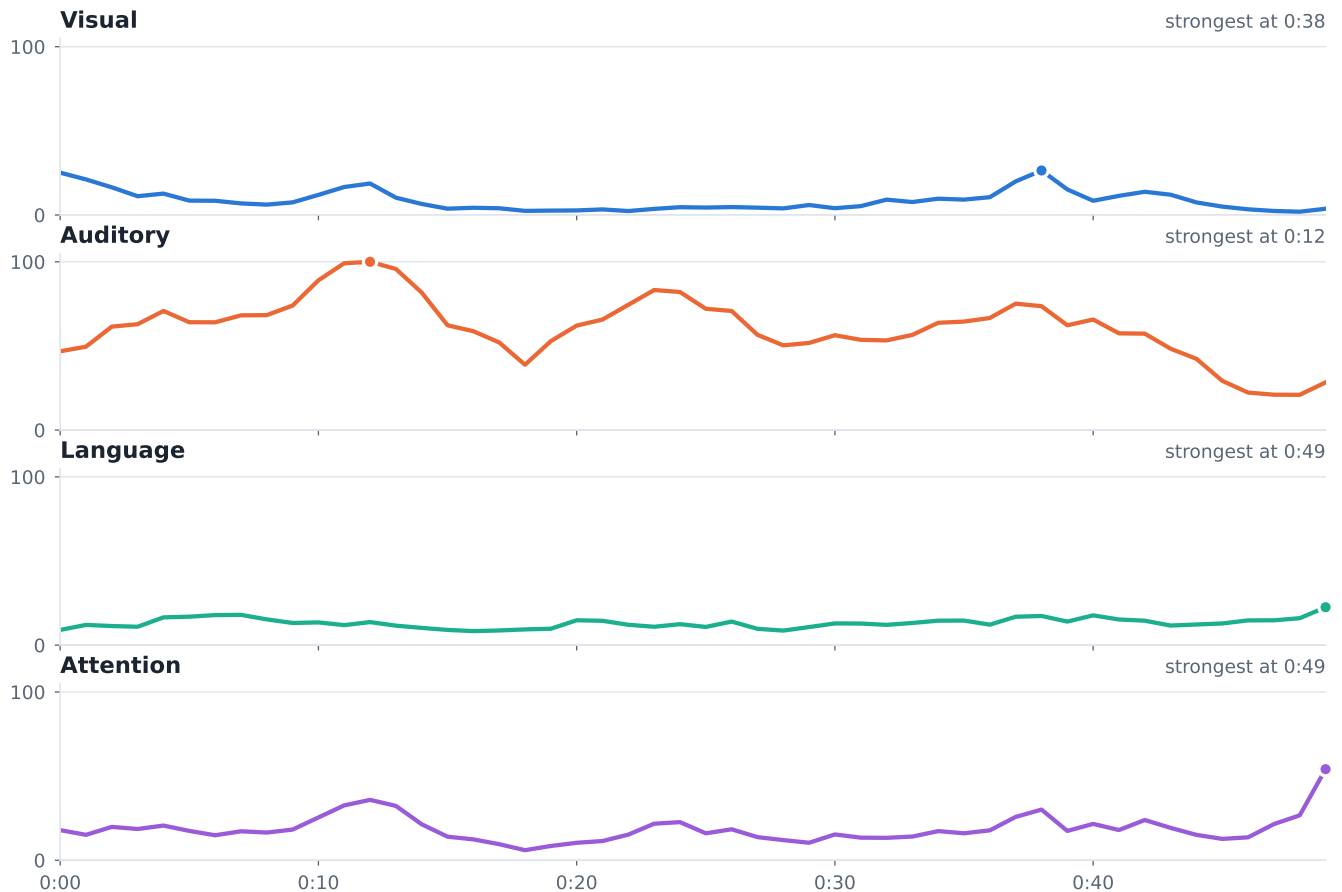
Key moments: the seconds worth a close look, with the frame and the words

Every second: level, leading network, most active regions and words

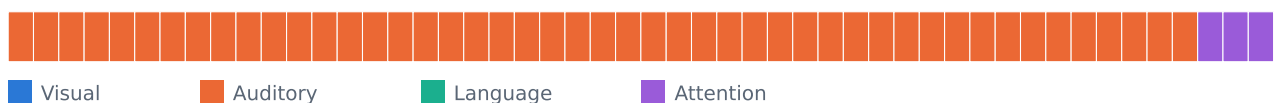
How to read this report: what each number is and what it is not

Brain networks

The model's cortical prediction is summarised as four networks. Each panel is scaled to that network's own range within this clip, so compare the shape and the timing of the panels, not their heights.



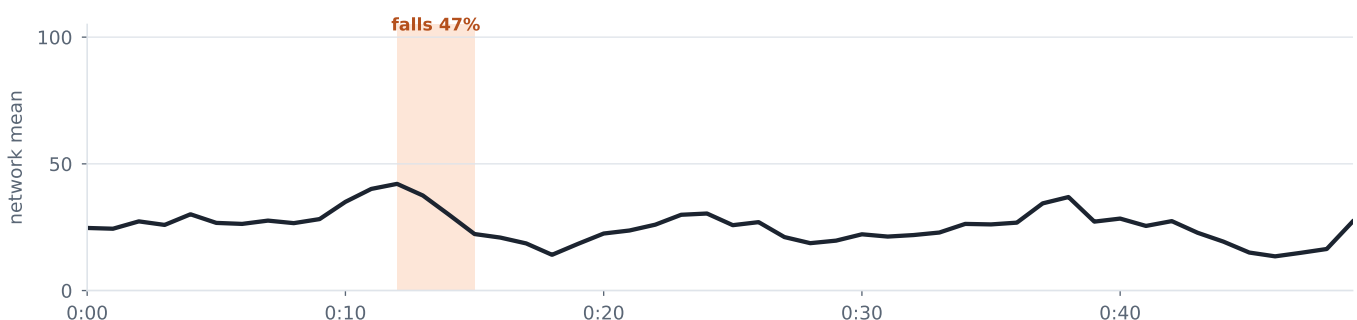
Leading network, second by second



NETWORK	LEADS FOR	SHARE OF THE CLIP	ITS STRONGEST SECOND
Auditory	47 s	94%	0:12
Attention	3 s	6%	0:49
Visual	0 s	0%	0:38
Language	0 s	0%	0:49

Mean of the four networks

This is the one series a percentage change is taken on, because it is not stretched to fill the chart. A fall is reported only when it starts at or above the clip average and loses 20% or more within three seconds.

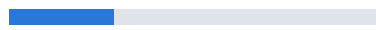


Key moments

The seconds that define this video's predicted response. Levels are on the clip's own 0 to 100 range.



0:00 Opening

 28 of 100

Leading network Auditory
System Objects & color
Regions Higher visual: color + face/object patches; Lateral belt (secondary)

"Listen, I wish"



0:04 Strongest second

 100 of 100

Leading network Auditory
System Auditory cortex
Regions Auditory area 5 (superior temporal); Posterior belt (secondary auditory)

"up and just give it to you, a box of"



0:12 Fall begins

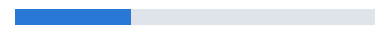
 52 of 100

Leading network Auditory
System Auditory cortex
Regions Auditory area 5 (superior temporal); Posterior belt (secondary auditory)

"relationships and it's even more essential for"



0:15 Fall ends

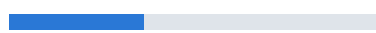
 31 of 100

Leading network Auditory
System Auditory cortex
Regions Auditory area 5 (superior temporal); Superior temporal sulcus (speech)

"If you're trying to rebuild a"



0:38 Best after the fall

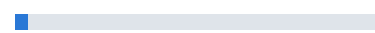
 36 of 100

Leading network Auditory
System Auditory cortex
Regions Auditory area 5 (superior temporal); Auditory association cortex

"must be like to be lived in their skin."



0:45 Weakest 3 s begin

 3 of 100

Leading network Auditory
System Voice & speech
Regions Superior temporal sulcus (speech); Supplementary & cingulate eye field

"Empathy, it's at the heart of"

Every second

One row per second. Level is the position on the clip's own 0 to 100 range. The strongest second is marked with a dot; rows inside the steepest fall are tinted. Words are listed at the second their line starts.

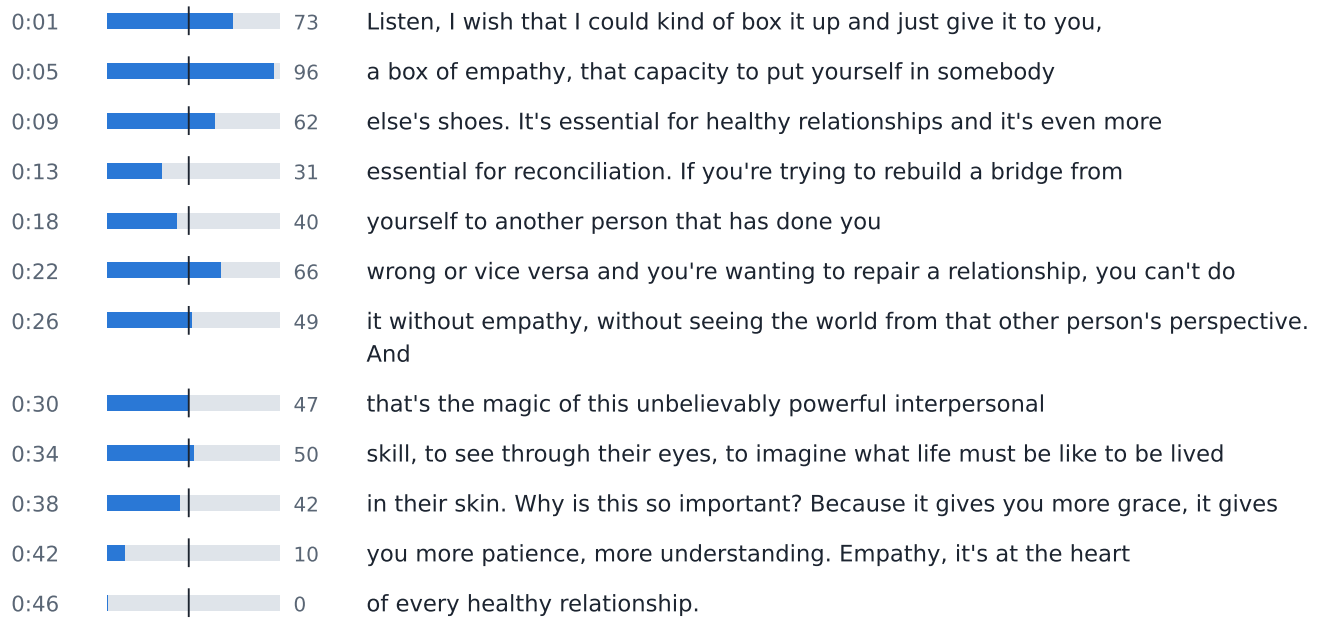
TIME	LEVEL	NETWORK	MOST ACTIVE REGIONS	WORDS	CONFID.
0:00	28	 Auditory	Higher visual: color + face/object patches; Lateral belt (secondary auditory)	<i>Listen,</i>	medium
0:01	39	 Auditory	Lateral belt (secondary auditory); Posterior belt (secondary auditory)	<i>Listen, I wish that I</i>	medium
0:02	61	 Auditory	Posterior belt (secondary auditory); Lateral belt (secondary auditory)	<i>I could kind of box</i>	medium
0:03	94	 Auditory	Posterior belt (secondary auditory); Lateral belt (secondary auditory)	<i>box it up and just give</i>	medium
0:04	100 ●	 Auditory	Auditory area 5 (superior temporal); Posterior belt (secondary auditory)	<i>give it to you, a box</i>	lower
0:05	100	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>box of empathy,</i>	lower
0:06	100	 Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>that capacity</i>	medium
0:07	100	 Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>to put yourself</i>	lower
0:08	84	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>yourself in somebody else's</i>	medium
0:09	71	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>else's shoes. It's essential</i>	medium
0:10	65	 Auditory	Auditory area 5 (superior temporal); Posterior belt (secondary auditory)	<i>essential for</i>	medium
0:11	60	 Auditory	Posterior belt (secondary auditory); Auditory association cortex	<i>healthy relationships and</i>	medium
0:12	52	 Auditory	Auditory area 5 (superior temporal); Posterior belt (secondary auditory)	<i>and it's even more</i>	medium
0:13	48	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>more essential for reconciliation.</i>	medium
0:14	38	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>reconciliation.</i>	medium
0:15	31	 Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>If you're trying to rebuild</i>	medium
0:16	20	 Auditory	Auditory area 5 (superior temporal); Supplementary motor (action)	<i>rebuild a bridge</i>	medium
0:17	17	 Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>from yourself</i>	medium
0:18	20	 Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>yourself</i>	medium
0:19	31	 Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>to another person</i>	medium
0:20	47	 Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>that has</i>	medium
0:21	57	 Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>done you</i>	medium
0:22	62	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>you wrong or vice</i>	medium
0:23	66	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>vice versa and</i>	medium
0:24	66	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>and you're wanting to repair a relationship,</i>	medium
0:25	69	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>relationship, you can't do</i>	medium
0:26	60	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>do it without empathy, without</i>	medium
0:27	48	 Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>seeing the world from that</i>	medium

Every second (continued)

TIME	LEVEL	NETWORK	MOST ACTIVE REGIONS	WORDS	CONFID.
0:28	37	Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>other person's perspective.</i>	medium
0:29	35	Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>perspective.</i>	medium
0:30	44	Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>And that's the magic</i>	medium
0:31	44	Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>magic of this unbelievably</i>	medium
0:32	53	Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>unbelievably powerful interpersonal</i>	medium
0:33	54	Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>interpersonal</i>	medium
0:34	61	Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>skill, to</i>	medium
0:35	58	Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>to see through their</i>	medium
0:36	54	Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>eyes, to imagine what</i>	medium
0:37	45	Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>what life must be like to</i>	medium
0:38	36	Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>be lived in their skin.</i>	medium
0:39	42	Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>Why is</i>	medium
0:40	48	Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>is this so important? Because it gives</i>	medium
0:41	43	Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>gives you more grace, it</i>	medium
0:42	23	Auditory	Auditory area 5 (superior temporal); Auditory association cortex	<i>it gives you more patience,</i>	medium
0:43	10	Auditory	Auditory area 5 (superior temporal); Supplementary motor (action)	<i>more understanding.</i>	medium
0:44	7	Auditory	Auditory area 5 (superior temporal); Superior temporal sulcus (speech)	<i>understanding.</i>	medium
0:45	3	Auditory	Superior temporal sulcus (speech); Supplementary & cingulate eye field (action control)	<i>Empathy, it's at the</i>	lower
0:46	0	Auditory	Supplementary & cingulate eye field (action control); Superior temporal sulcus (speech)	<i>the heart of every</i>	lower
0:47	0	Attention	Frontal operculum (salience); Middle insula (salience / body signals)	<i>every healthy relationship.</i>	lower
0:48	12	Attention	Frontal operculum (salience); Middle insula (salience / body signals)		lower
0:49	14	Attention	Frontal operculum (salience); Cingulate (control)		lower

The words against the curve

Each spoken line with the average predicted level while it is said (clip range, 0 to 100). The clip average is 47; the tick on each bar marks it.



How to read this report

What the model is

v2neuro is a brain-encoding model. It was trained on fMRI recordings of people watching video, and for a new video it predicts the response of the cortex, one value per second, from the picture, the sound and the words. Nobody watched your video for this report.

Strongest second

The second with the highest predicted response, leaving aside the first three seconds. The cortex responds to any clip starting, so the opening would win on most videos and say nothing about yours.

Level, and "of this clip's own range"

Charts and bars use a 0 to 100 scale stretched to this clip: 0 is its lowest second and 100 its highest. It shows where a second sits inside this video. It cannot be compared between two videos, and a difference between two levels is not a percentage change.

Steepest fall

The largest fall within three seconds, as a true percentage of the level it falls from, taken on the mean of the four networks without stretching. It is reported only when it starts at or above the clip average and reaches 20%. When no window qualifies the report states no percentage.

Weakest 3 seconds

The three consecutive seconds with the lowest average level. Every video has one; it is the place to look first, not a fault by itself.

Networks, systems and regions

The four networks (visual, auditory, language, attention) group the cortical surface. The leading network is the one with the highest value in that second, each on its own range. Regions are the atlas areas with the highest predicted response in that second.

Confidence

Higher, medium or lower says how well the model has been shown to predict the regions that lead in that second, and how typical the second is for it. It is a guide to how much weight a row can carry.

What this is not

These are predictions of an average cortical response. They are not a measurement of your viewers and they do not forecast views, watch time or sales. On recordings held out from training, the model's predictions correlate with the measured response at about $r = 0.27$ for material like its training set and about $r = 0.12$ for very different films. The useful test is your own data: compare these moments with the numbers you already have.



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