

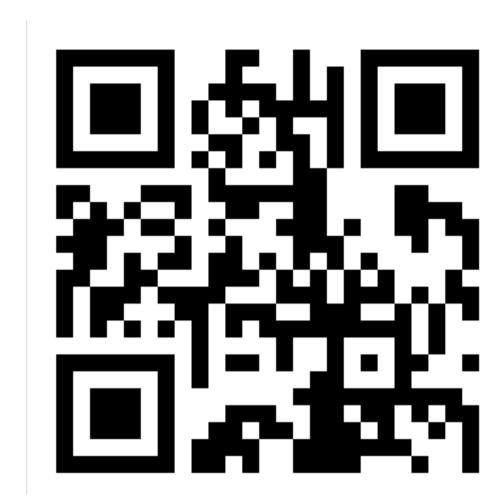
Course Sharing: Explaining the Psychology of Memory with the Movie Memento

Nitop '17 Wed #44

Diego Fernandez-Duque, Psychology Department, Villanova U.

diego.fernandezduque@villanova.edu

Website with all Instructional Materials



Start by accessing this website (includes links to videos)

Don't have a "QR Code Reader" app in your phone?

download a free one at google play or App Store iTunes

The Movie

- Critically acclaimed film noir (rotten tomatoes > 90) of an amnesic man searching for his wife's murderer
- Plot runs backwards, mimicking in viewers a feeling of long-term memory deficit (see example below).

The Handout

- Developed for Cognition course
- Suitable for Introduction to Psychology
- Modular format allows instructors to pick and choose which facts to emphasize.
- Materials are also applicable to online courses.
- Highlights 15 memory facts present in the movie
 (+ scene information & brief description of science
- Videos of relevant scenes posted also in youtube (search: memento nitop memory)

The Science Highlighted

- Memory is subjective and unreliable
- Memory is an active process of reconstruction
- Memories are distorted by cognitive and motivational biases
- Source memory is particularly vulnerable
- False memories can sometimes be implanted
- Metacognition is an important aspect of memory
- 'Knowing' and 'remembering' are different aspects of memory
- Implicit and explicit memory are dissociable systems
- Short-term memory and long-term memory are separate systems
- Long-term memory is enhanced by understanding of the story line
- Working memory is affected by distraction
- Memory is not only in the head but also in our surroundings
- Confidence is not a good way to judge memory accuracy
- Memory encoding depends on perceptual attention
- Strategies exist to enhance memory abilities

Chronological Order

(Not represented in the movie)

EVENT 1

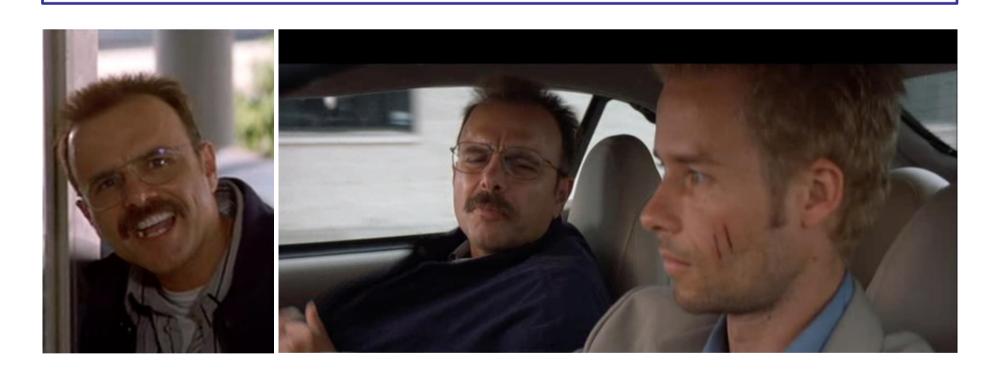


Leonard exits hotel room



talks to manager

EVENT 2



Teddy arrives

and they leave in car

Phenomenology

A forward moving script allows easy integration of sequenced information in healthy adults.

Movie Sequence

EVENT 2



Teddy arrives

and they leave in car

EVENT 1



Leonard exits hotel room



talks to manager



Teddy arrives

In a backward moving script, effort and confusion ensue, as viewers attempt to reconstruct sequenced information across a time delay, without narrative support.