

1. Possible model/neural substrate of visual mental imagery (VMI)?

However, still need more temporal-resolved and structural information...

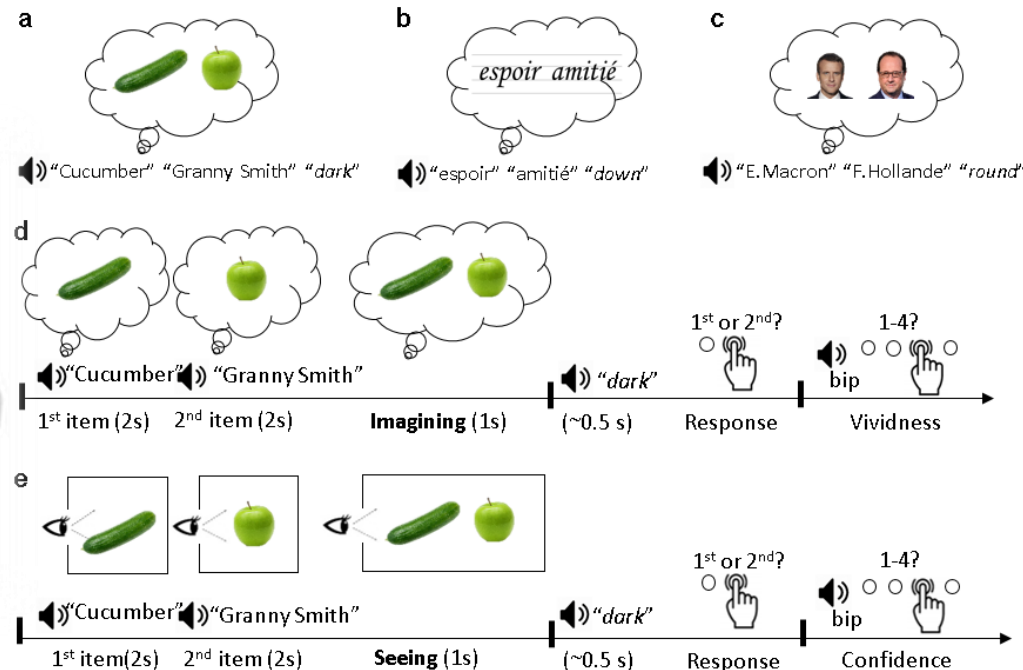


Feedforward or Feedback?
Coherence of activity?
Oscillations?



**Spatiotemporal Dynamics of Domain-General
and Domain-Specific Visual Mental Imagery**

Intracranial recording during VMI in epilepsy patients, high temporal and spatial resolution



Cluster analysis

Specific group of contact responses to specific domains?

Neural signatures corresponding to specific imagery and perception domains?

Single unite recording

Do perception and imagery fire the same neuron?

Oscillations

Is imagery performance locked with some memory-related oscillations, like ripple?

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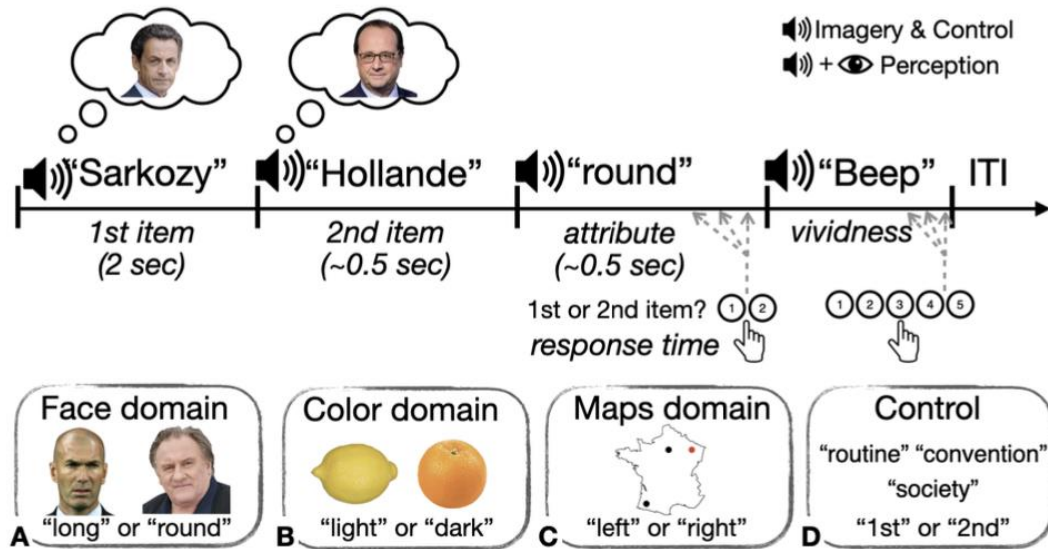


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**Spatiotemporal Dynamics of Domain-General
and Domain-Specific Visual Mental Imagery**

Using MEG and combining fMRI as a localizer



Activation of the frontal and parietal nodes during VMI

Activation of the ventrotemporal nodes of the VMI network

Top-down and bottom-up information flow during imagery

[1] a *VVIQ* block(no scanning), [2] three *Imagery* blocks (map, face, color), [3] three *Perception* blocks (map, face, color), [4] one *Control* block (auditorily abstract word)