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# How do we navigate our semantic memory when searching for creative ideas ?

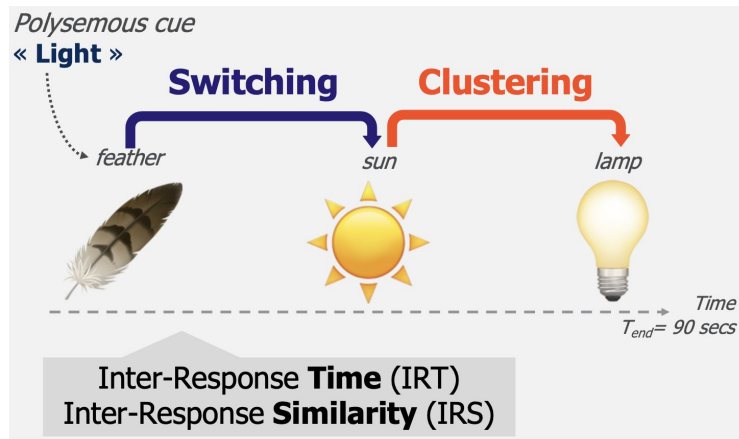
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Supervisor: Emmanuelle Volle

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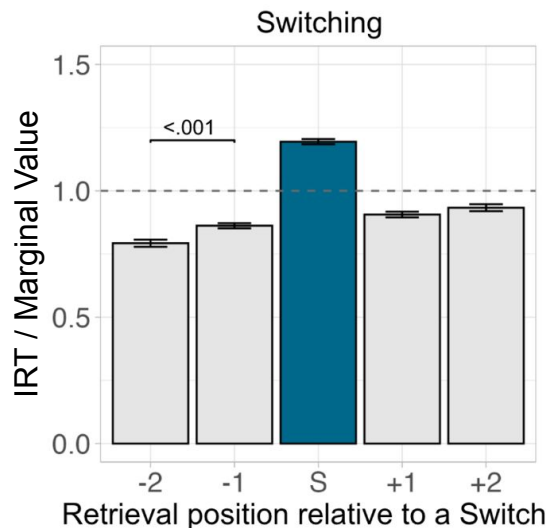


Ovando-Tellez et al., 2022  
Ovando-Tellez, Vigreux, et al.,  
*under review*

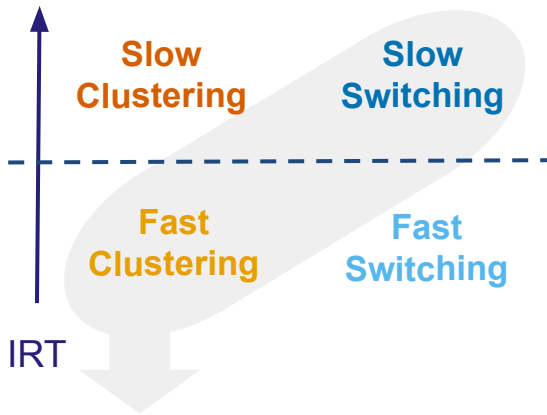


## Marginal Value Theorem (MVT) of the **Optimal Foraging Theory** :

1. Default behavior is **Clustering**
2. Inter Responses Time (IRT) increases as patch resources are depleted
3. **Switching** occurs when IRT reaches **Marginal Value**



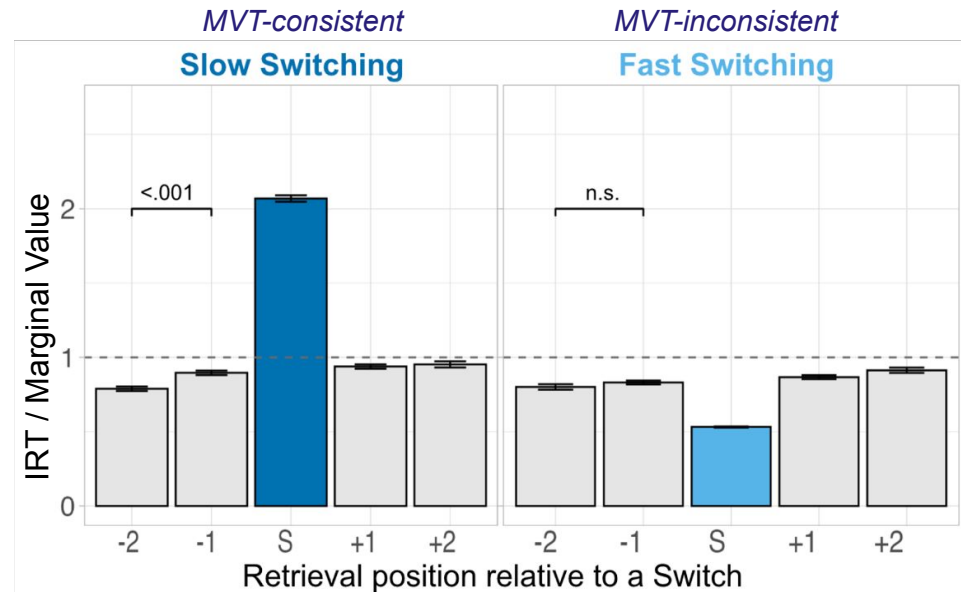
# How do we navigate our semantic memory when searching for creative ideas ?



Behaviors consistent with

**Marginal Value Theorem** of the **Optimal Foraging Theory** :

1. Default behavior is **Fast Clustering**
2. IRT increases as patch resources are depleted
3. **Slow Switching** occurs when IRT reaches Marginal Value



**Slow Switching but not Fast Switching**  
follows predictions from the MVT

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## Ongoing Work ...

How do we navigate our semantic memory when searching for creative ideas ?

- Effect of “be fluent” versus “be creative” instruction on components of semantic memory search

## ...and Futur Directions

How do we navigate our semantic memory when searching for creative ideas ?

- Cognitive processes underlying Controlled Clustering & Switching
- Brain correlates