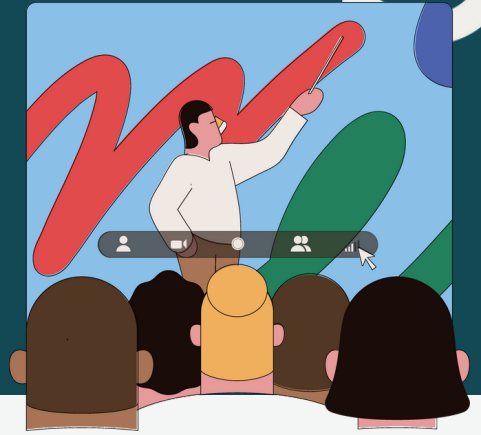


Micro-learning

Cognitive Load Theory (CLT) basics



Two types of memory

In our brains, we have two types of memory:

Working Memory: processes new information, is quite limited and can only handle so much before it is overloaded - small capacity.

Long-term memory: this is where we store and retrieve information. Organised into schemas (sort of like a filing cabinet) - large capacity.



Key idea: Avoid overloading working memory to increase the the amount of information that transfers to long-term memory.

Three types of cognitive load

CLT proposes that there are three types of cognitive load:

Intrinsic Load: the inherent level of complexity in the information.

Extraneous Load: comes from non-relevant elements that require mental processing (e.g. decorative pictures, animations, loud music, non-relevant animations).

Germane Load: comes from the effort needed to process information into schemas in long-term memory.



Key idea: Cognitive overload happens when the combination of intrinsic, extraneous and germane loads becomes overwhelming.

Quick tips to reduce cognitive load


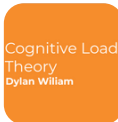



- **Remove non-essential content** - additional graphics, background music, non-relevant animations.
- **Chunk content into smaller parts** - break large slabs of text into smaller parts at a time.
- **Place words closely to relevant graphics** - diagrams that help draw connections between text and image.
- **Lower the sound level of background music** - in a narrated animation, or in general during class.
- **Present some information visually and some verbally** - don't narrate word for word, allow the visual channel and audio channels to take turns in processing information.

Deeper learning

Cognitive Load Theory



Learn on EC Premium:

Name	Learning Partner	Duration
<input type="checkbox"/>  <p>Cognitive Load Theory and Multimedia Learning Video</p>	EC by Go1	15 mins
<input type="checkbox"/>  <p>Dylan Wiliam: Cognitive Load Theory Interactive</p>	Dylan Wiliam	50 mins
<input type="checkbox"/>  <p>Science of Learning Evidence-Informed Teaching Strategies and... Interactive</p>	Learning Made Easy Global	50 mins
<input type="checkbox"/>  <p>Michael Griffin: Teaching for Metacognition Interactive</p>	Michael Griffin	6.5 hrs
<input type="checkbox"/>  <p>Kim Marshall: What Makes Learning Stick Interactive</p>	Kim Marshall	2 hrs

Reach out to the EC team to work alongside you and map learning to your existing PL priorities.

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