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Fakulti Kejuruteraan Mekanikal

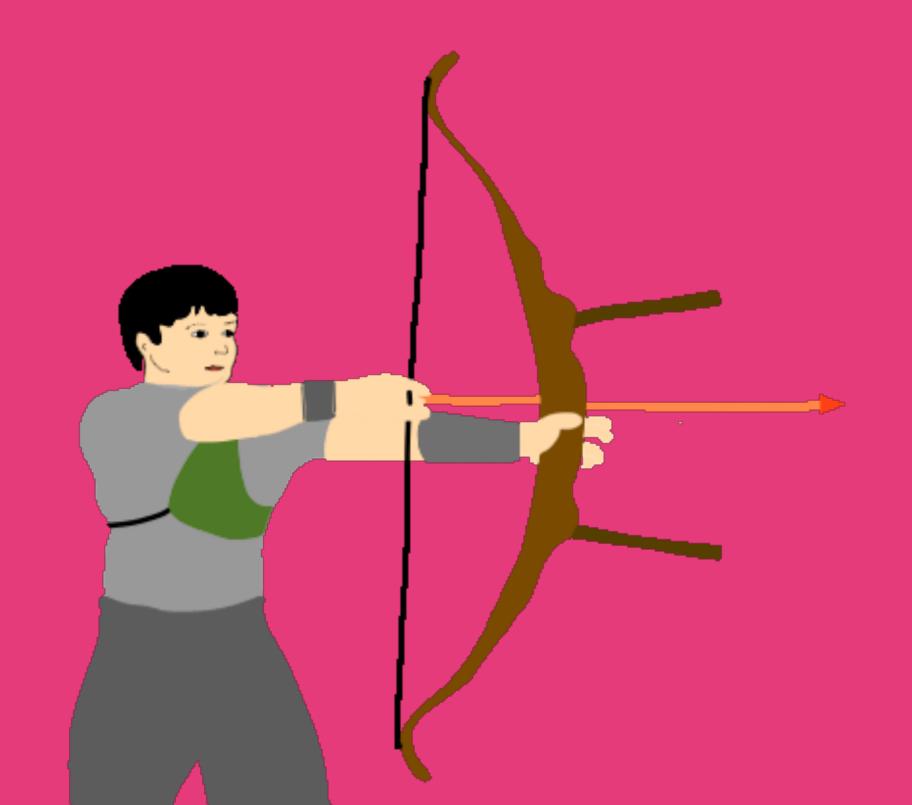
Non-Destructive Testing & Structural Health Integrity





Lesson Outcome

Animated Engineering GIFs in education



Outline





Why GIFs?



Examples



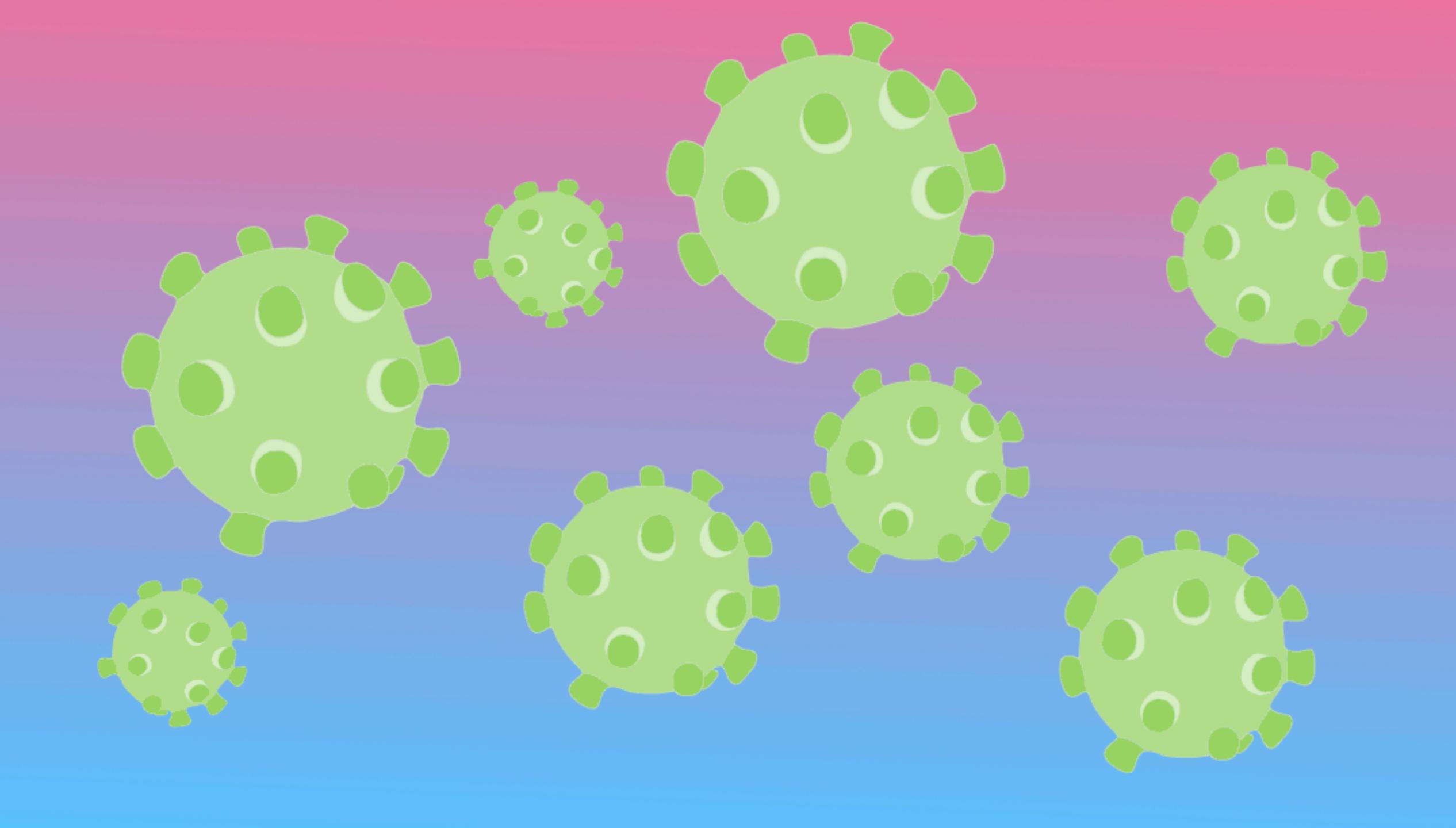
Create Animated GIFs

- 1. Text
- 2. Shape and animation
- 3. Animation cycle



Create Content using Animated GIFs

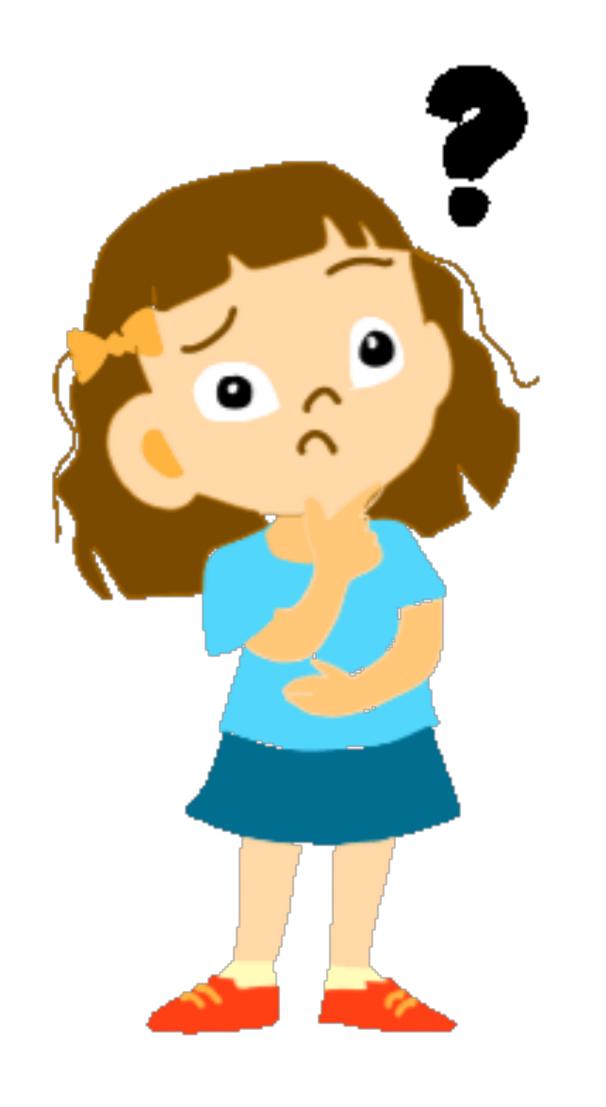
What is GIFs?

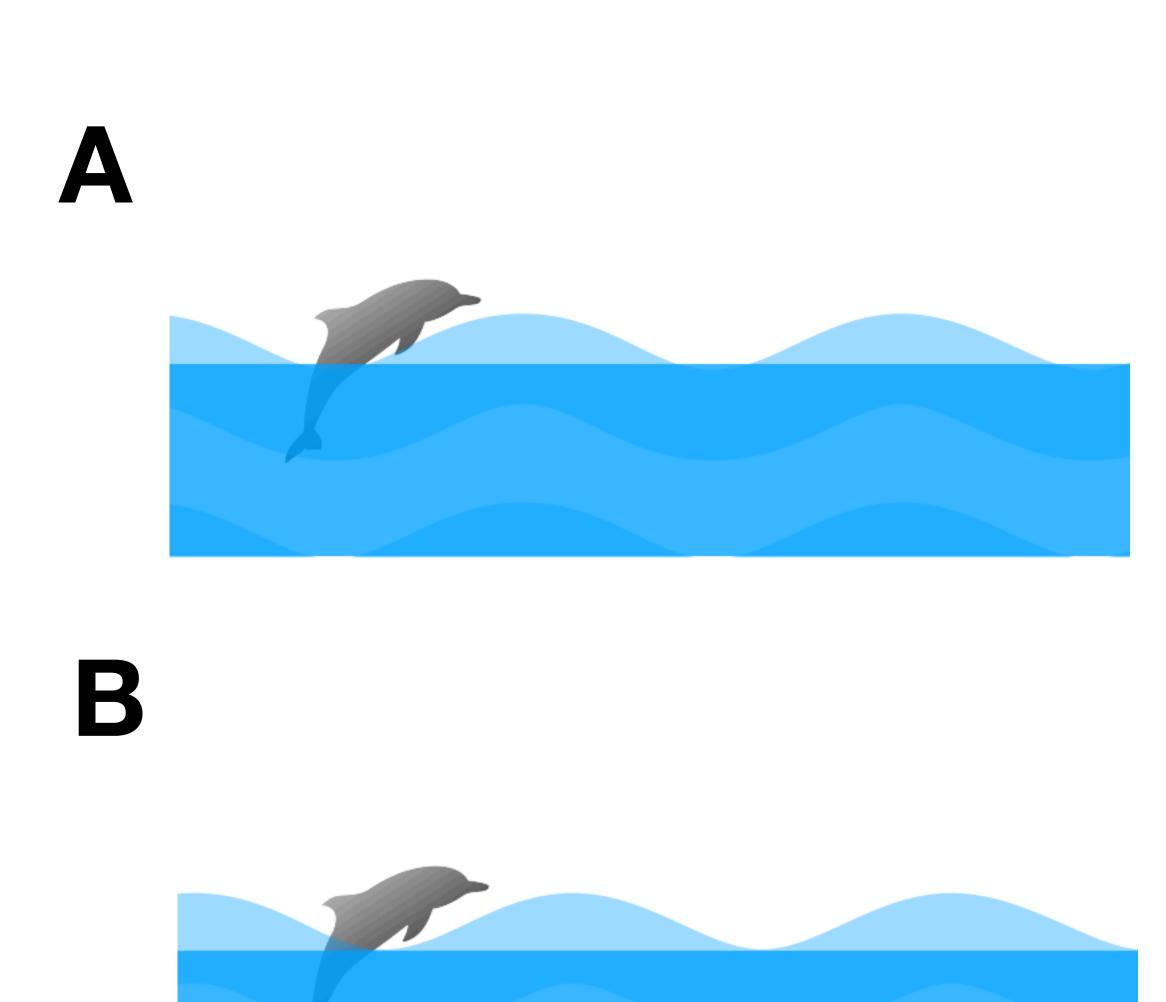




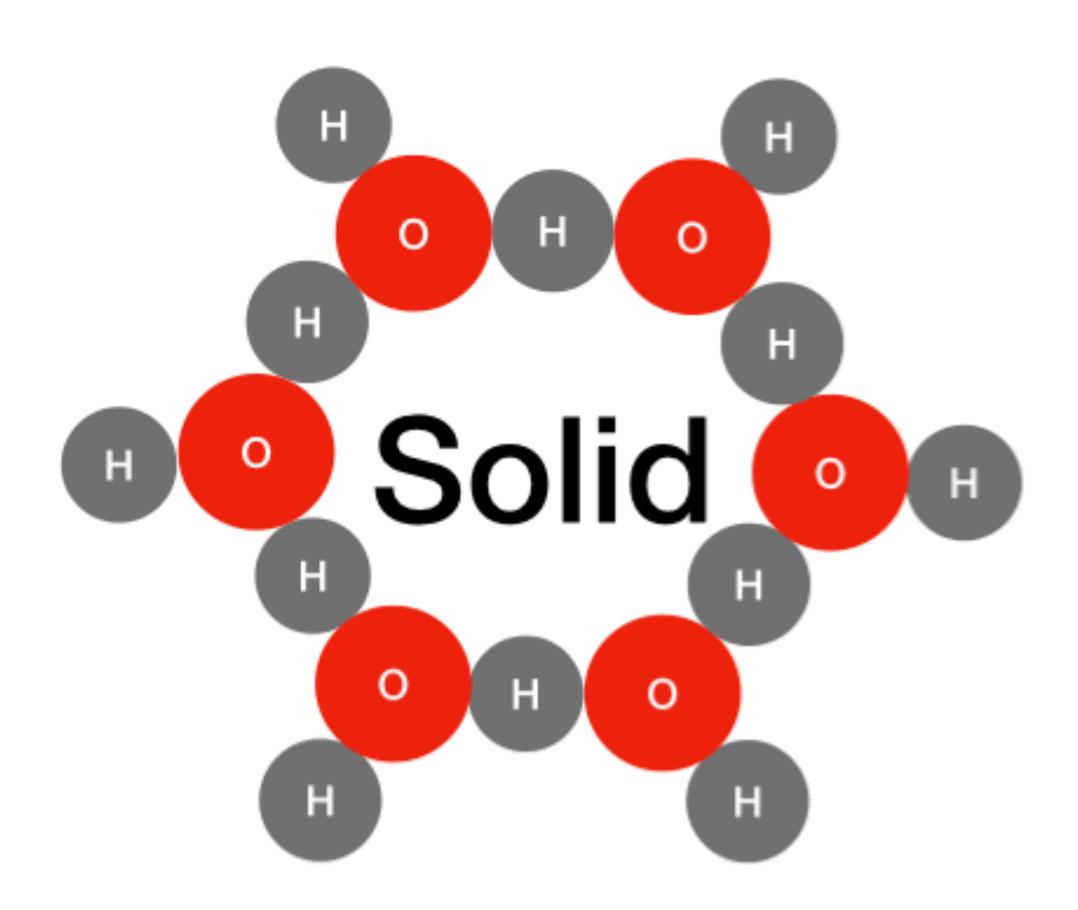
Why GIFs?

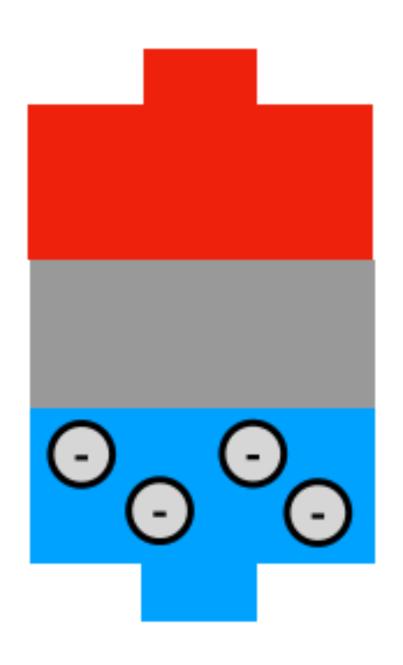
Which one is more effective?



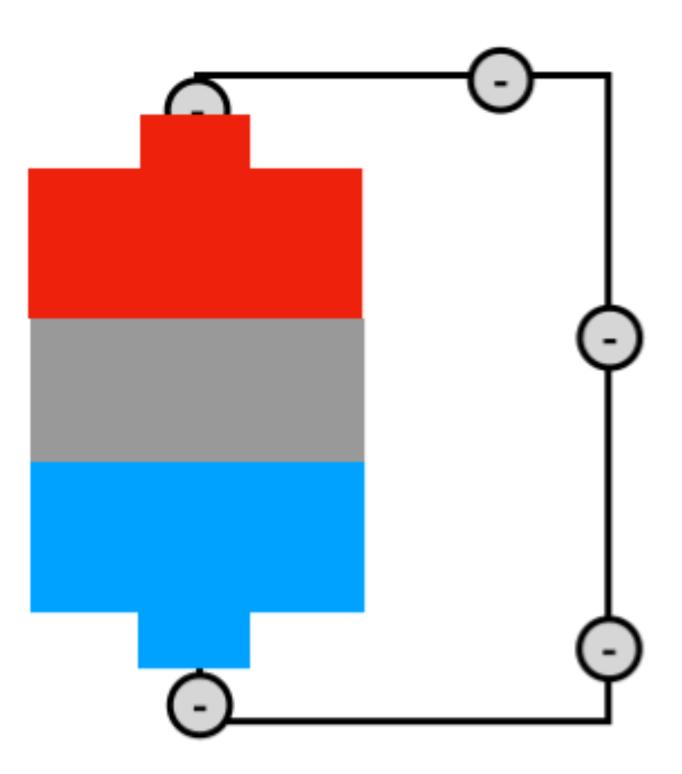


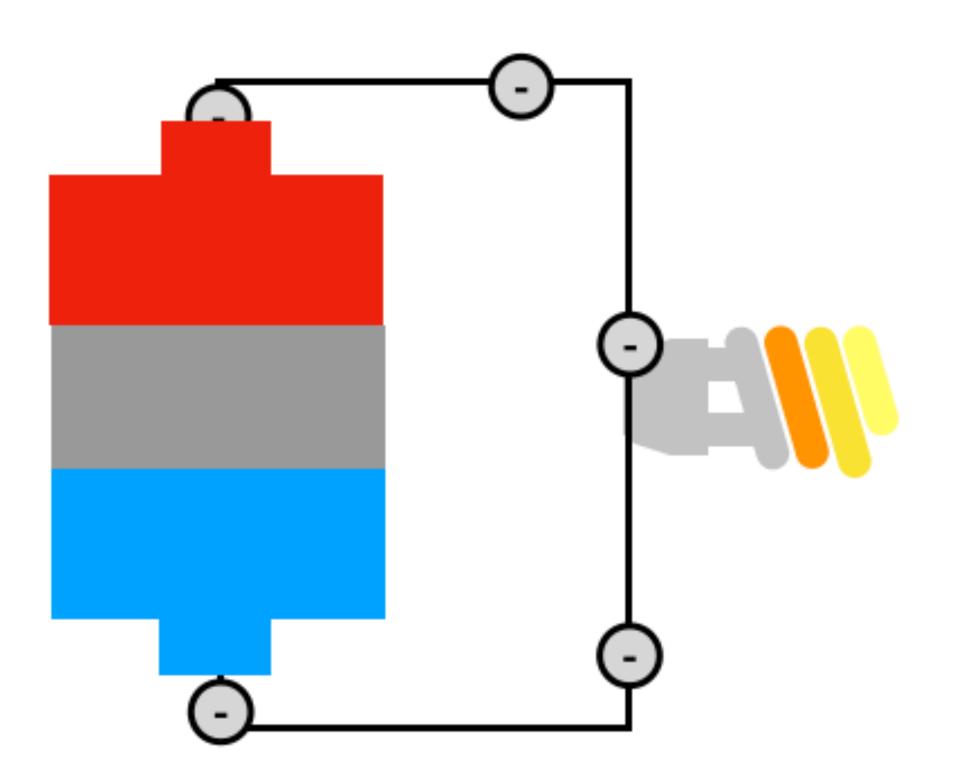
Examples Engineering GIF

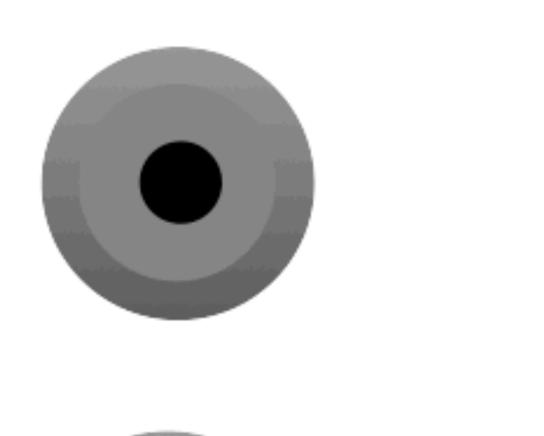


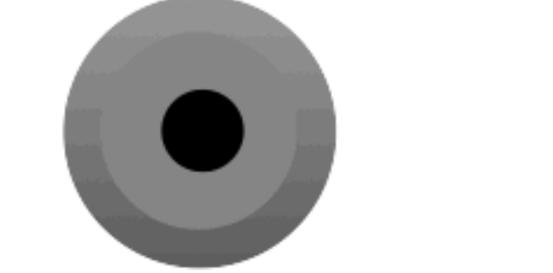


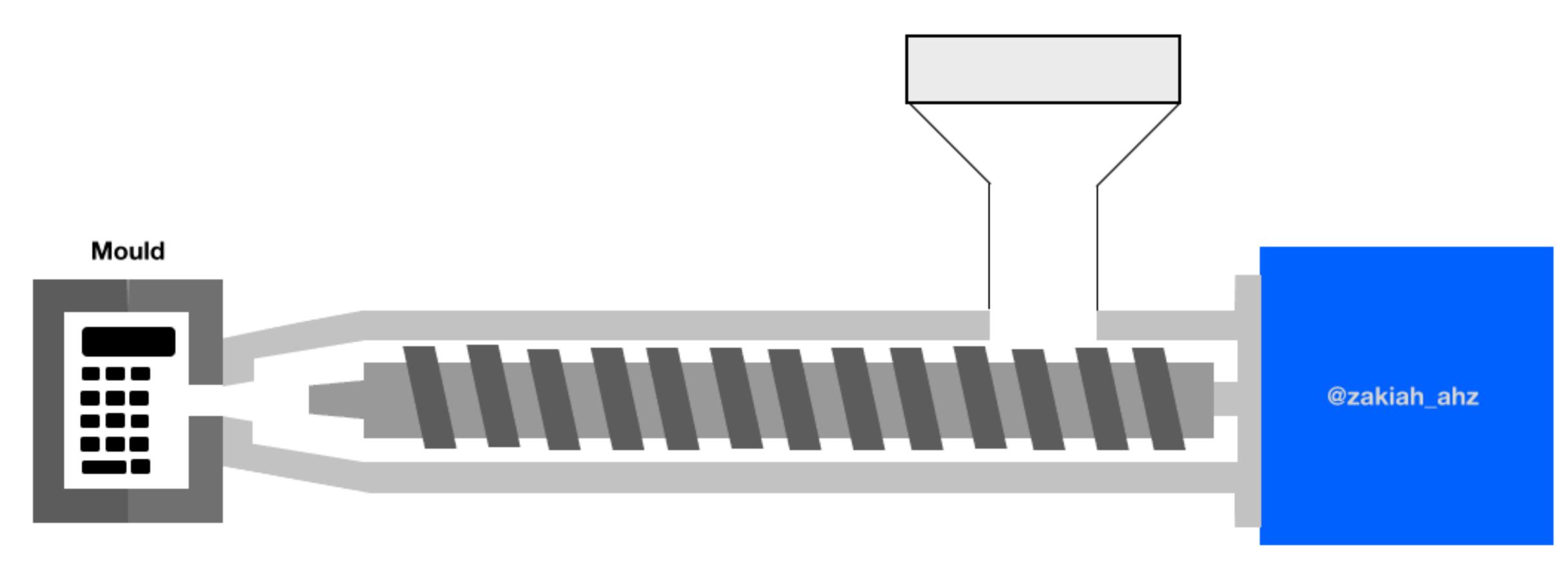




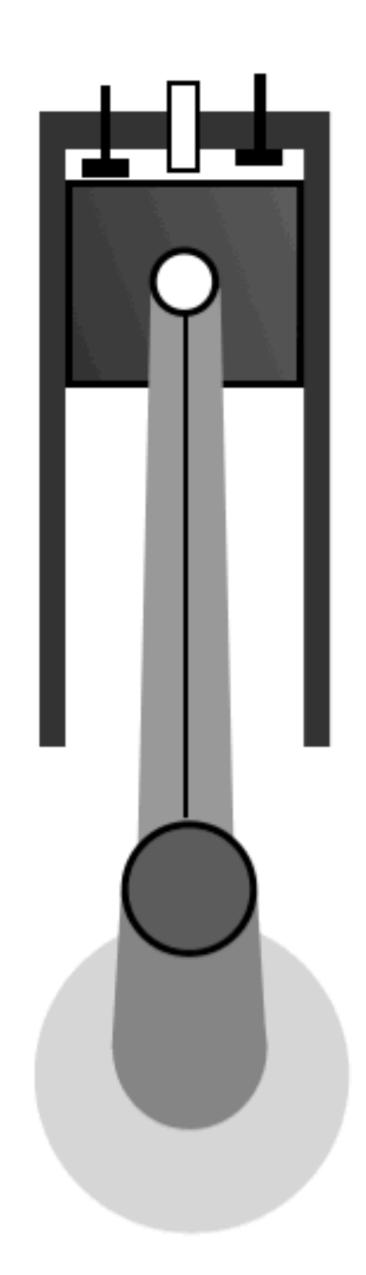








Motor





INTERACTIVE

Fun learning and engaging



EDUCATIONAL

GIFs

EFFECTIVE

Visualise ideas





ENGAGING

Dynamics to convey information, emotion and idea

EFFICIENT

Convey messages better to facilitate learning





SMALL SIZE

No audio, only motion

Examples

Development of Learning Content

science

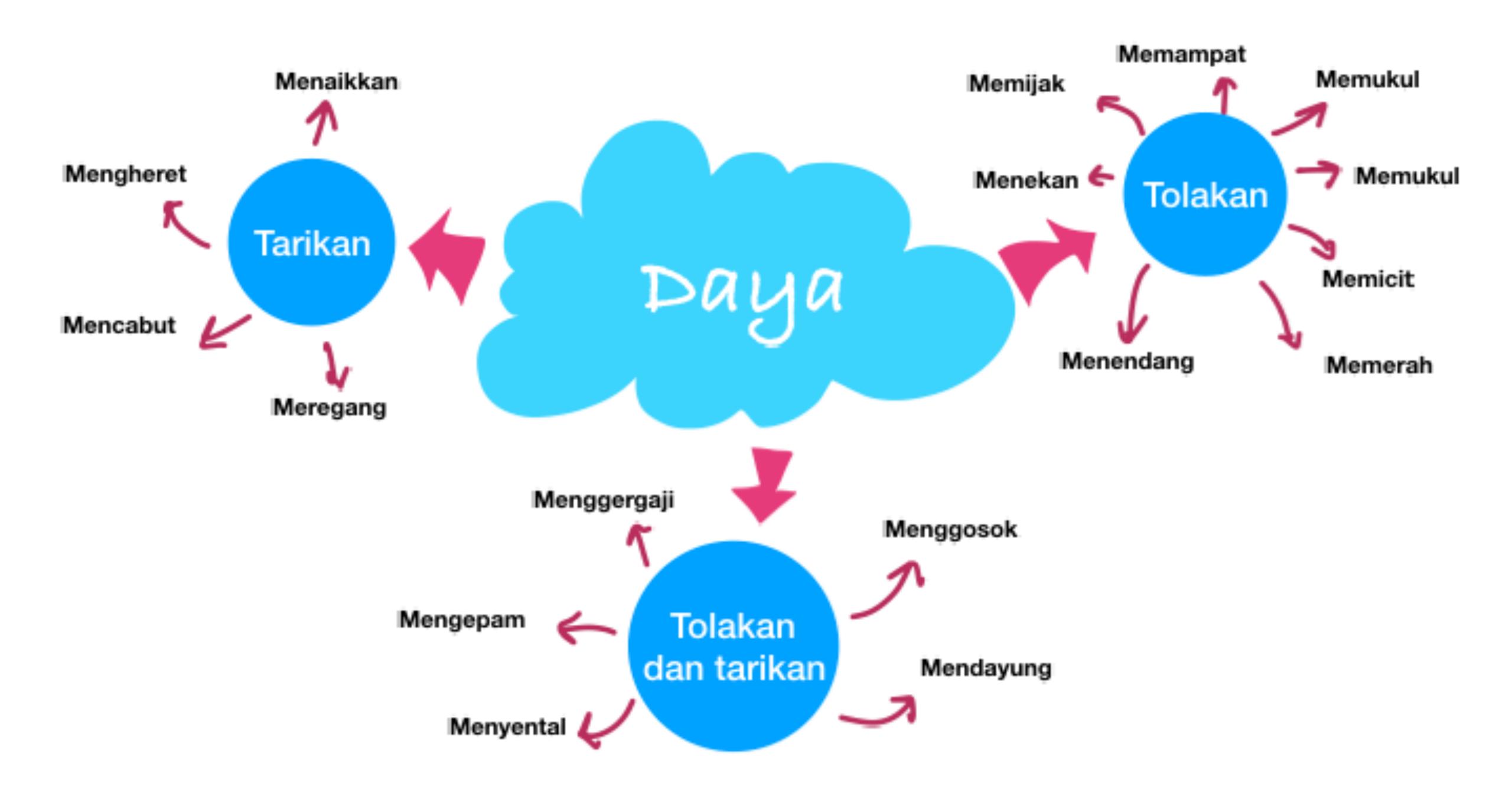
Forces



Animated GIF

Text





Animated GIF Shape + Animation



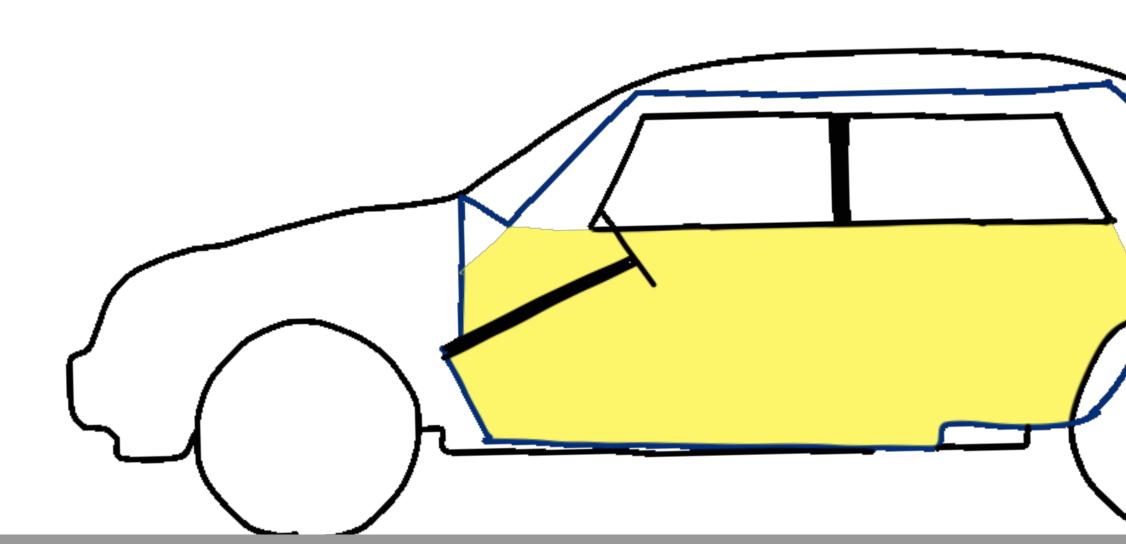
Animated GIF Animation cycle

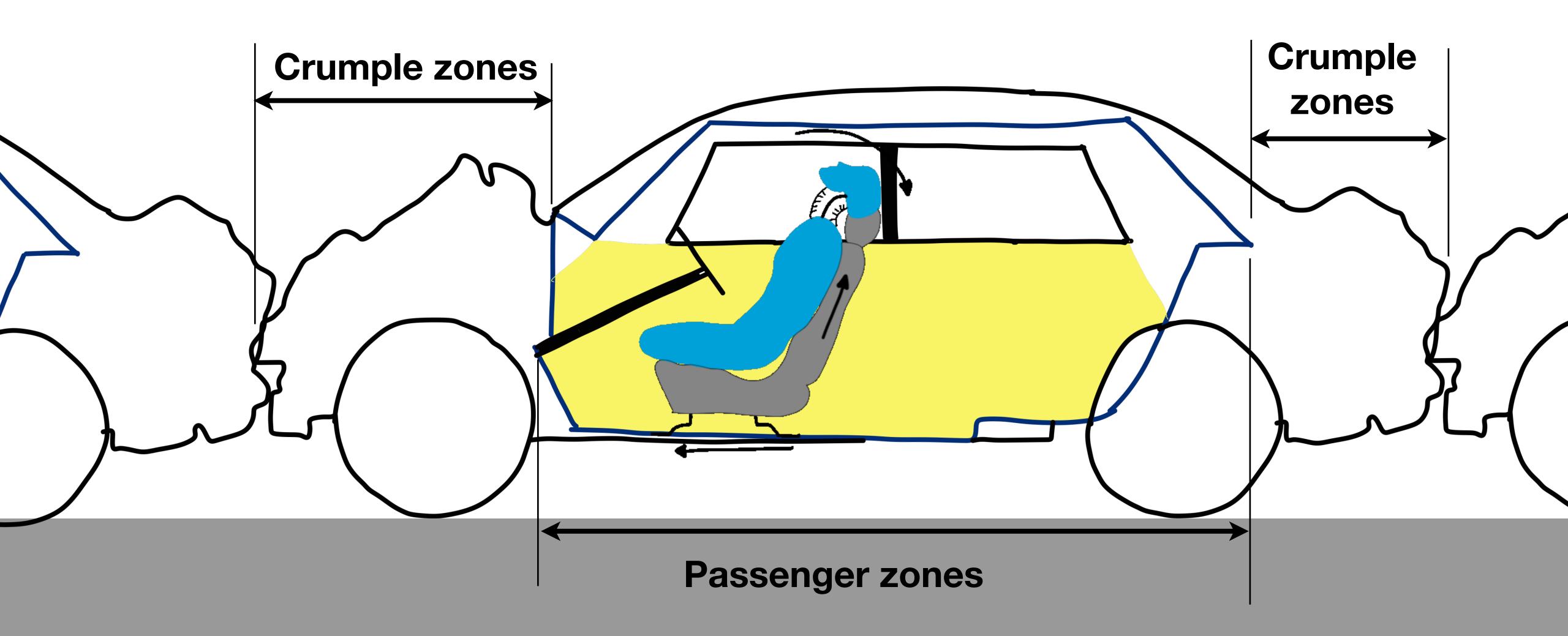




Dynamics Car crash

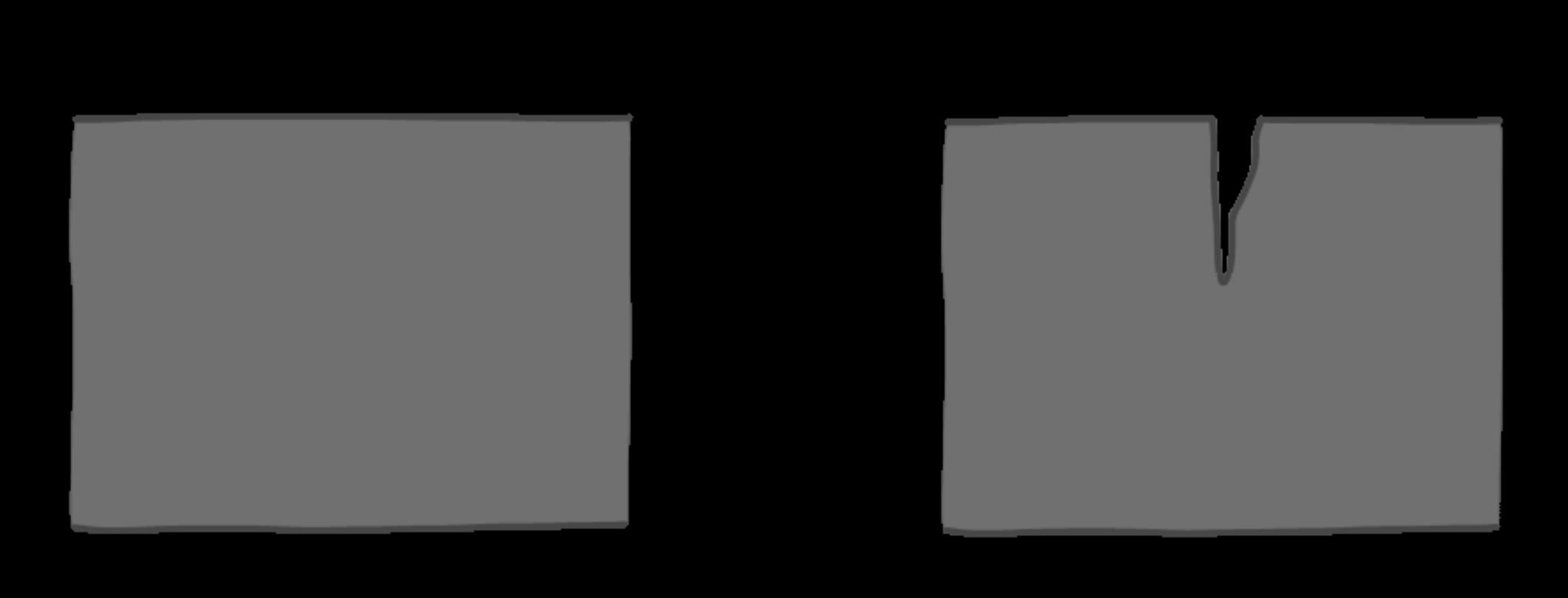
CRUMPLE ZONES





How to Step-by-step

Kesan

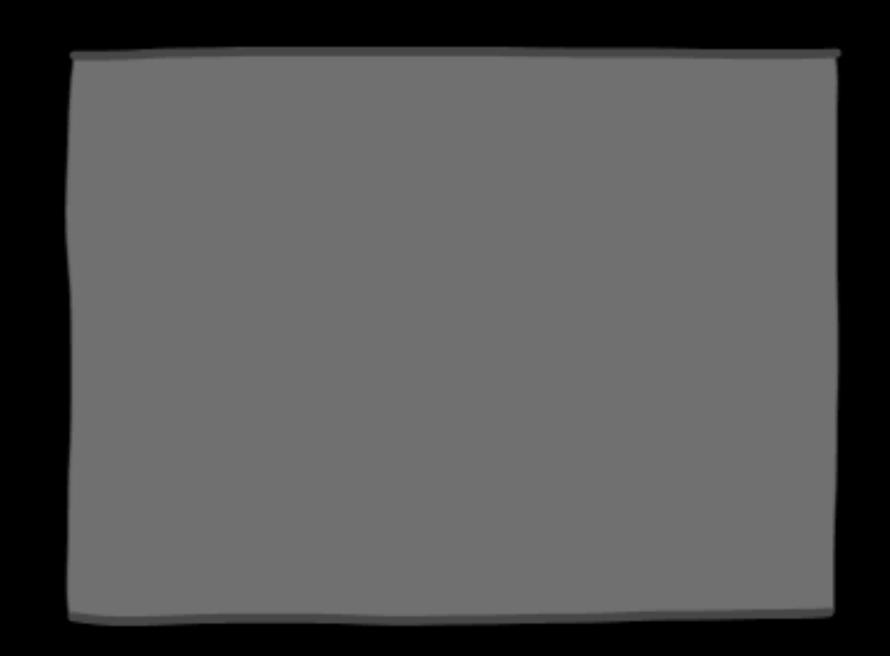


Animated GIF Create Content

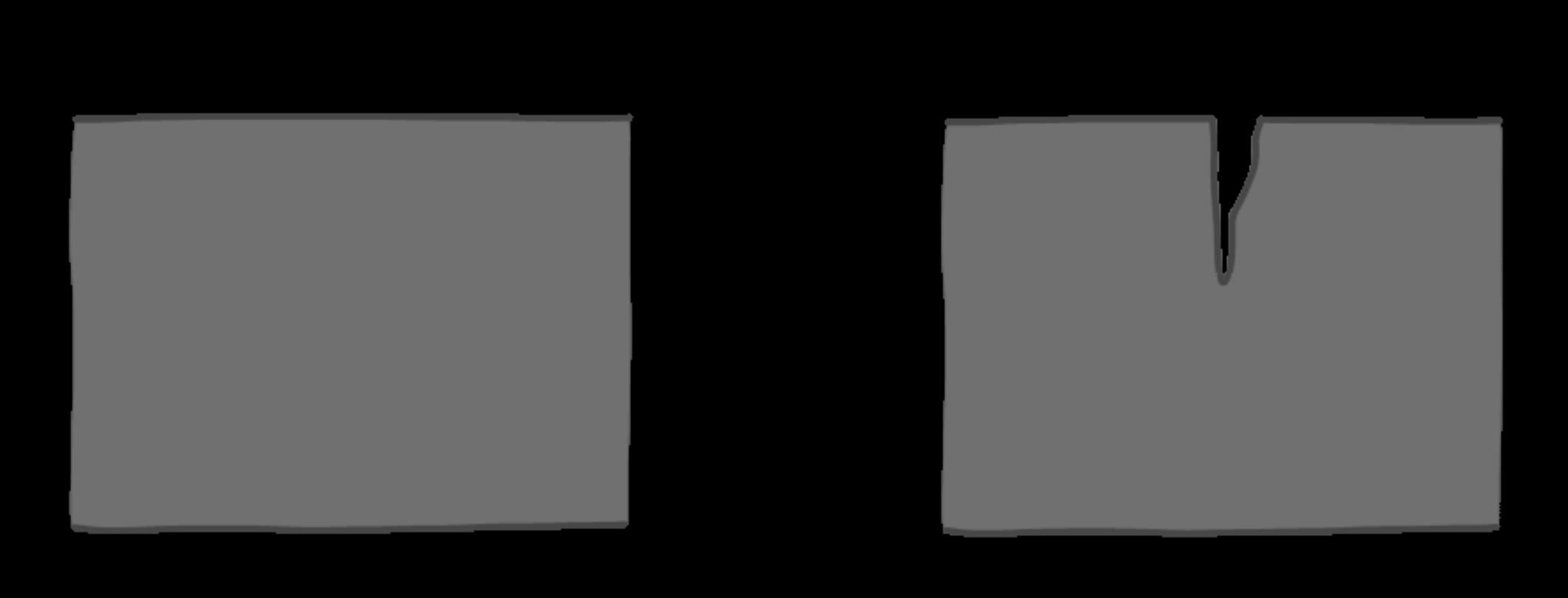


Step 1: Pre-cleaning

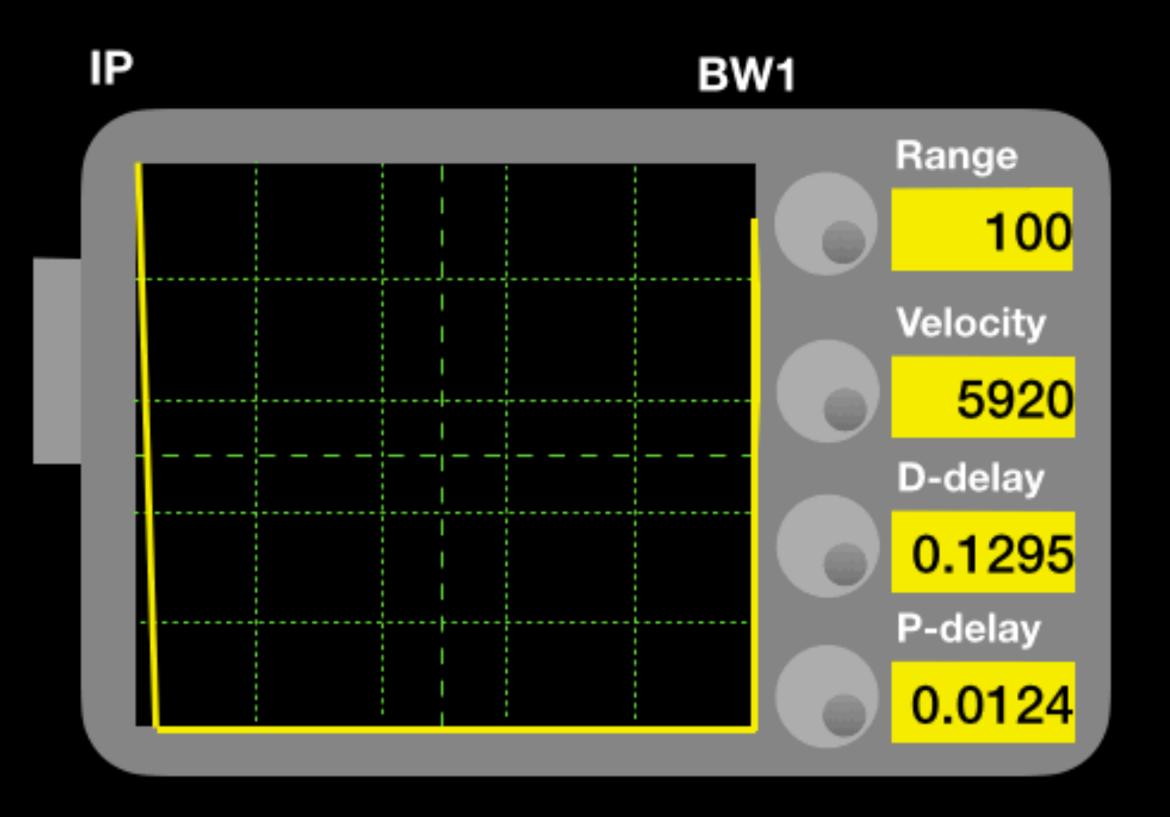


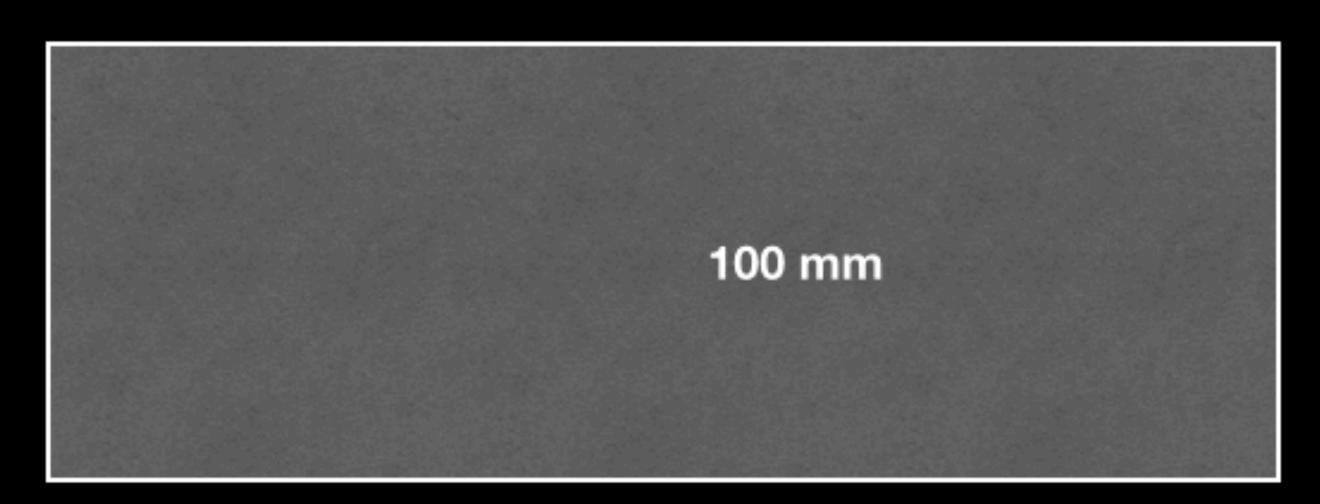


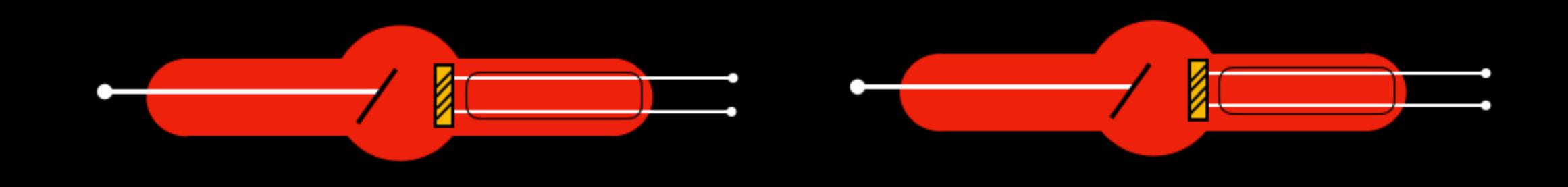


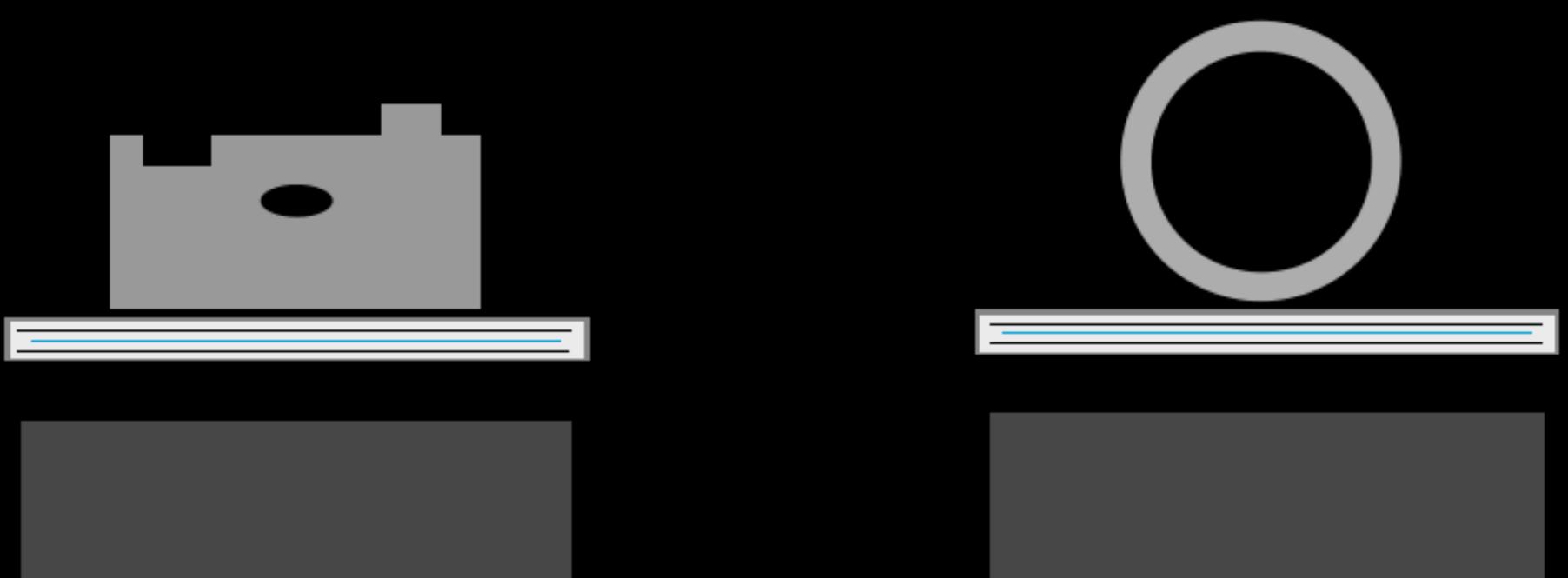


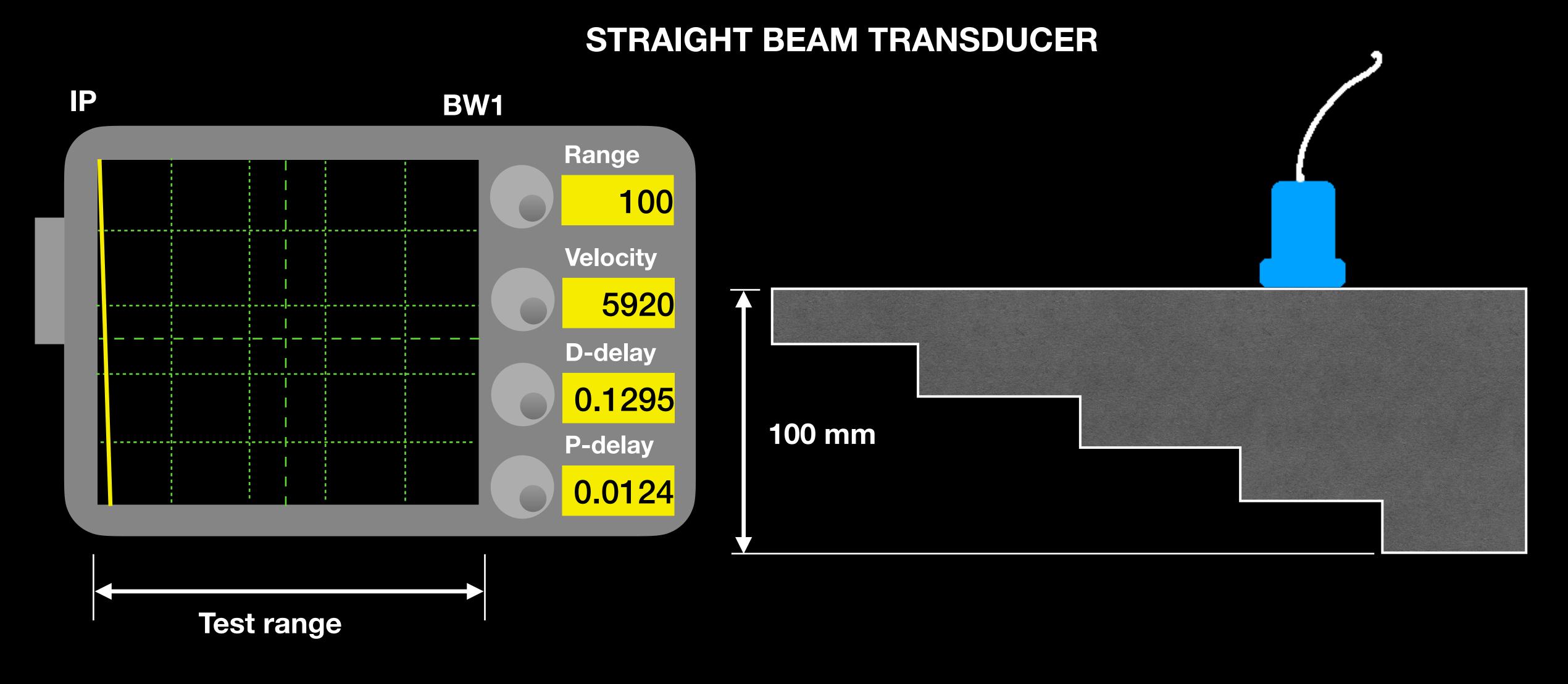
STRAIGHT BEAM TRANSDUCER











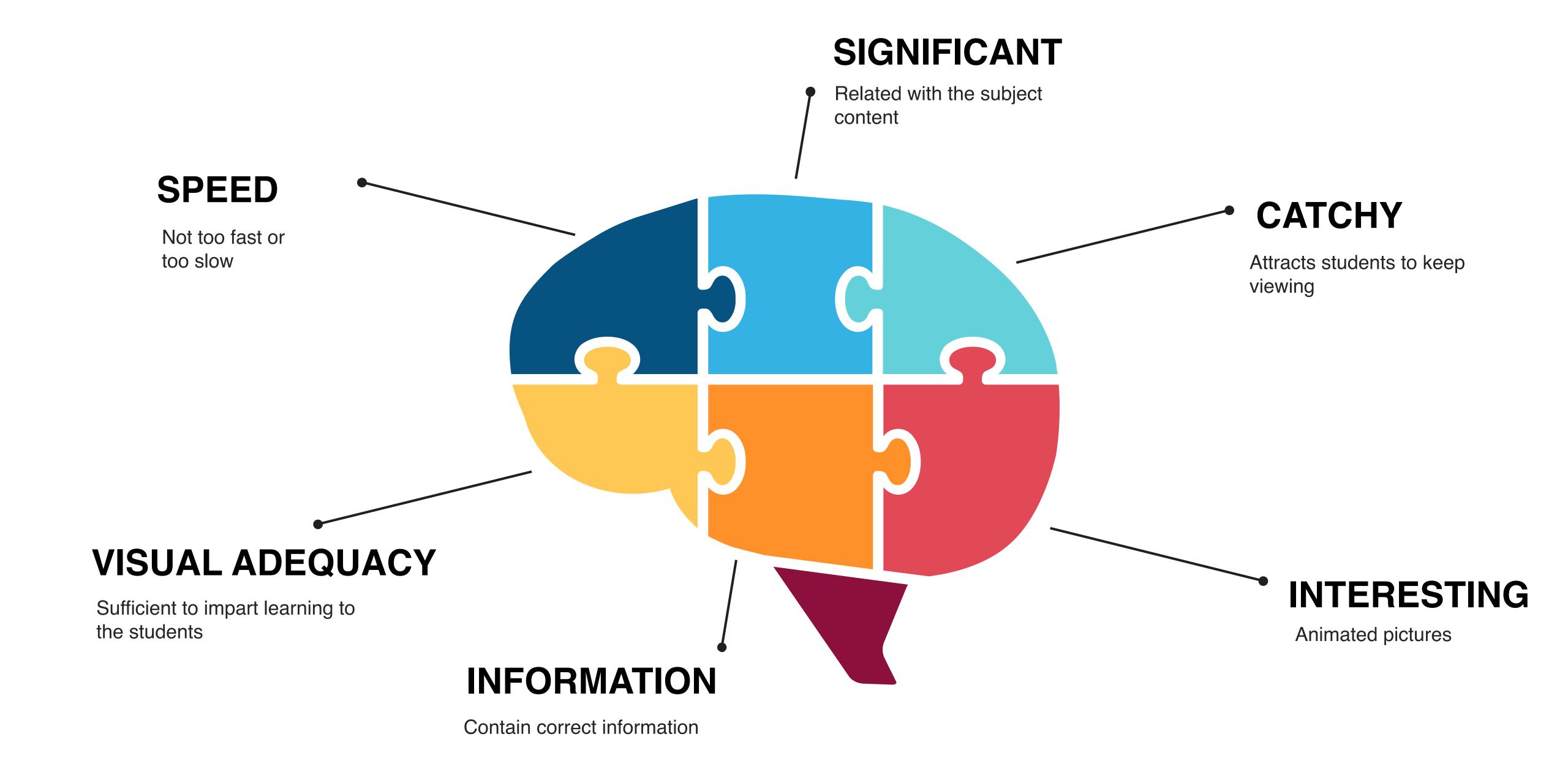












Take home point

Animated GIFs

- 1. Engaging
- 2. Effective
- 3. Efficient