

PLATINUM SPONSORS

GOLD SPONSORS







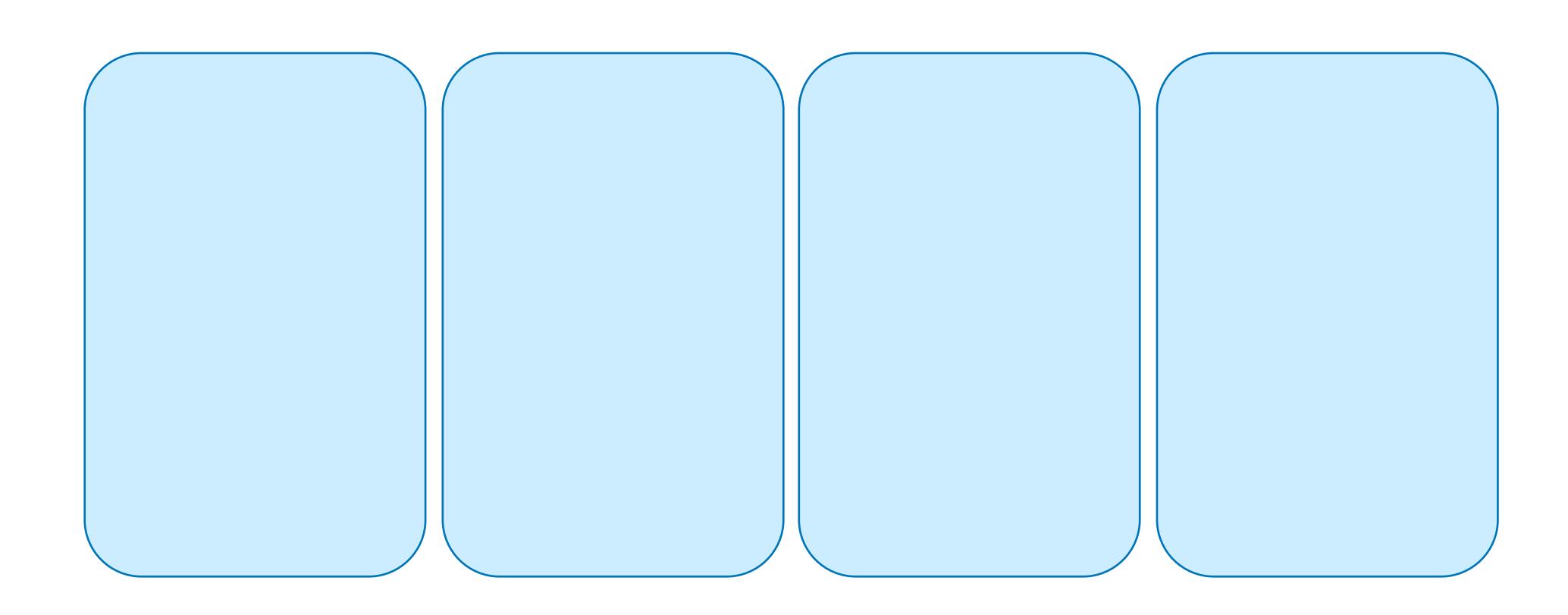


Dr Jared Cooney Horvath

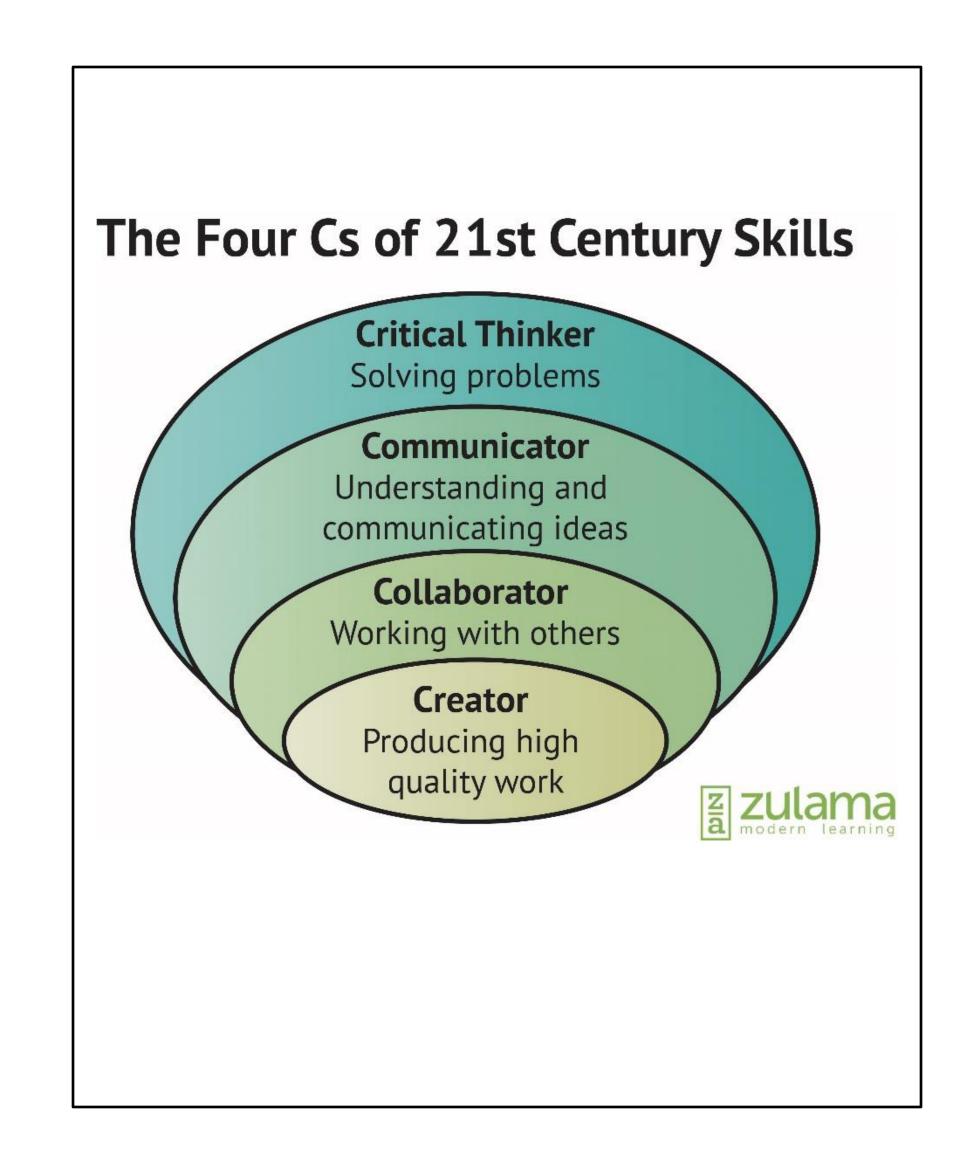
Dr. Jared Cooney Horvath PhD, MEd, BAMF



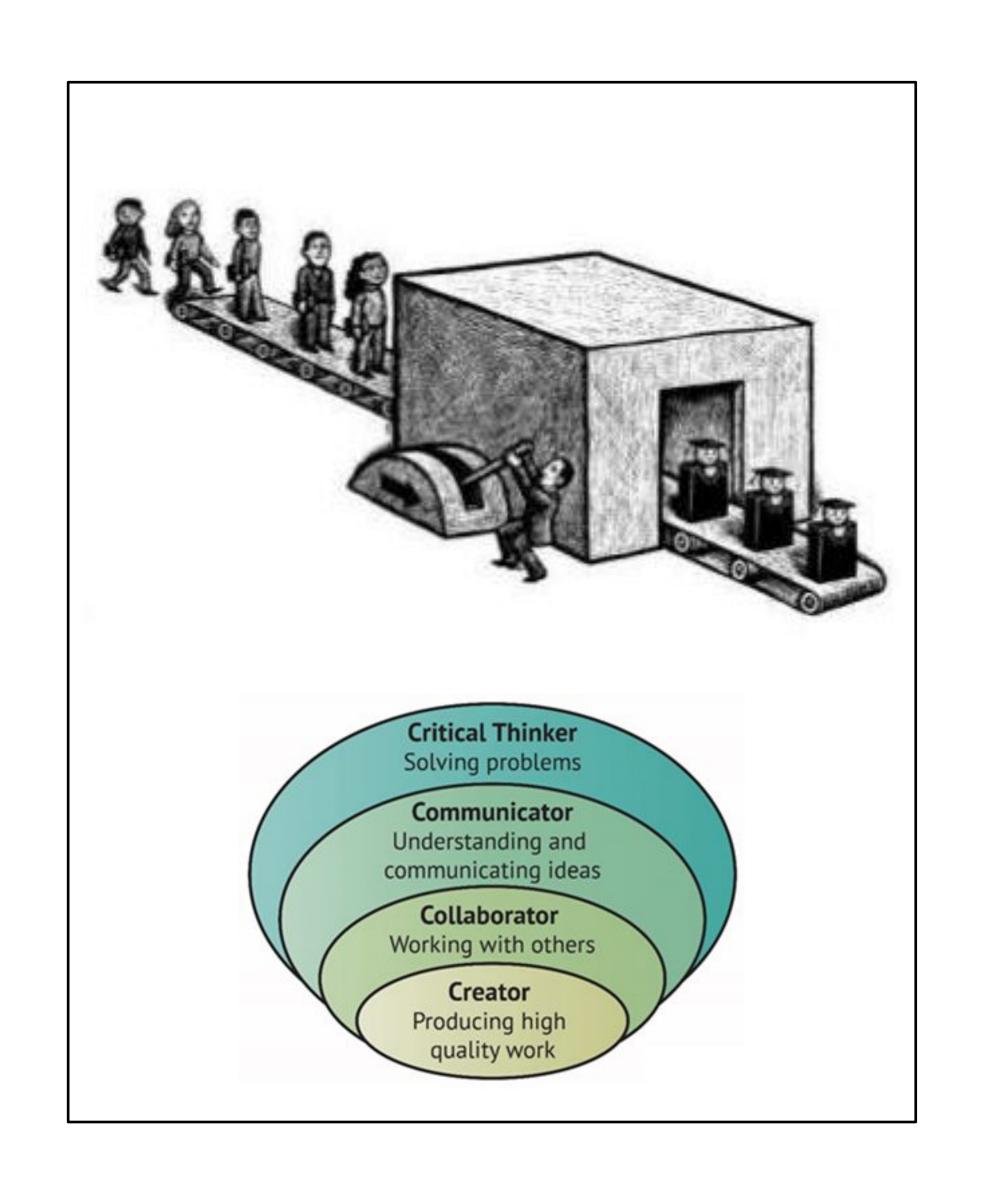




Competencies

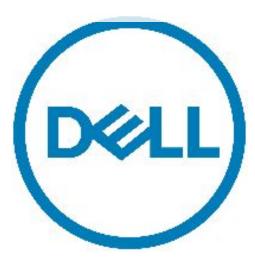


Prussian 'Factory' Model

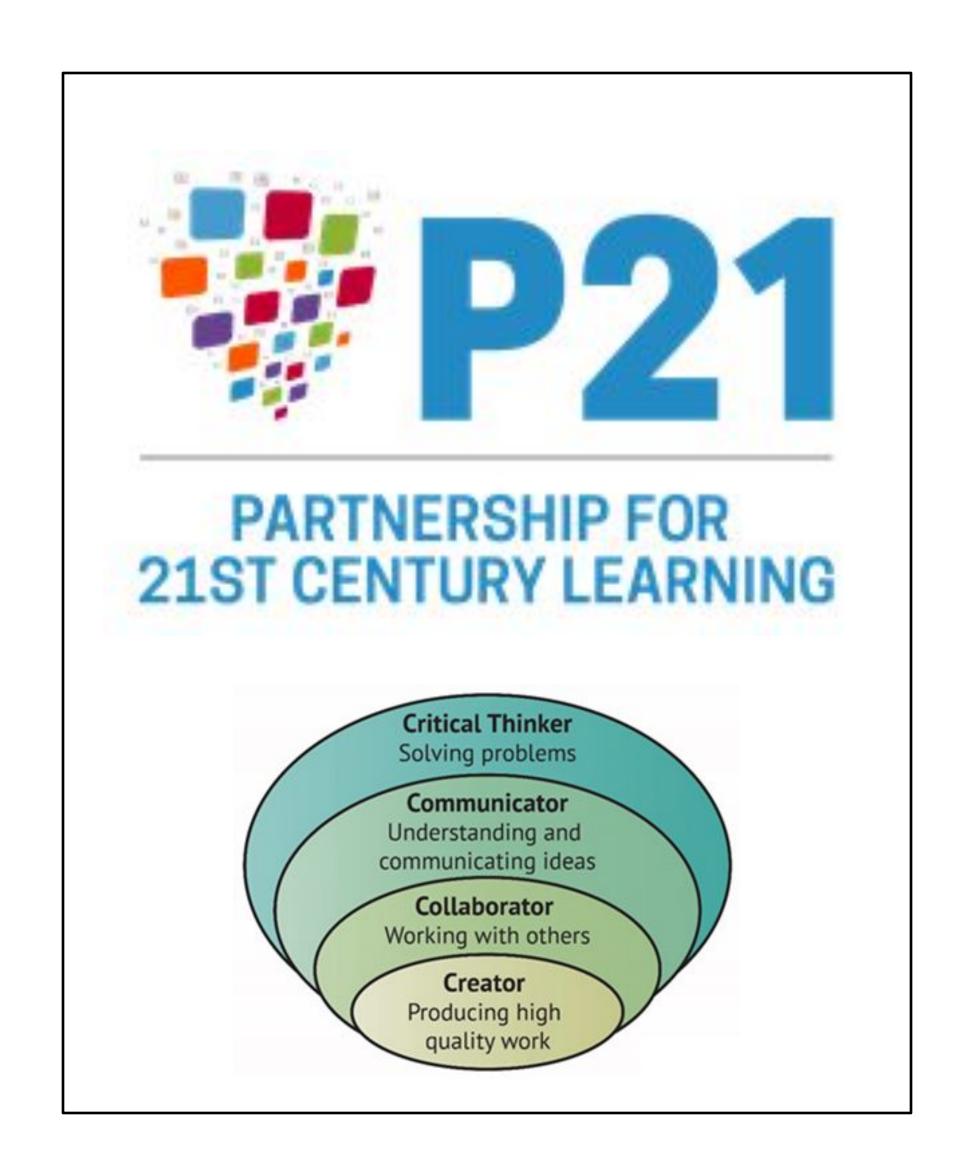


A New Model

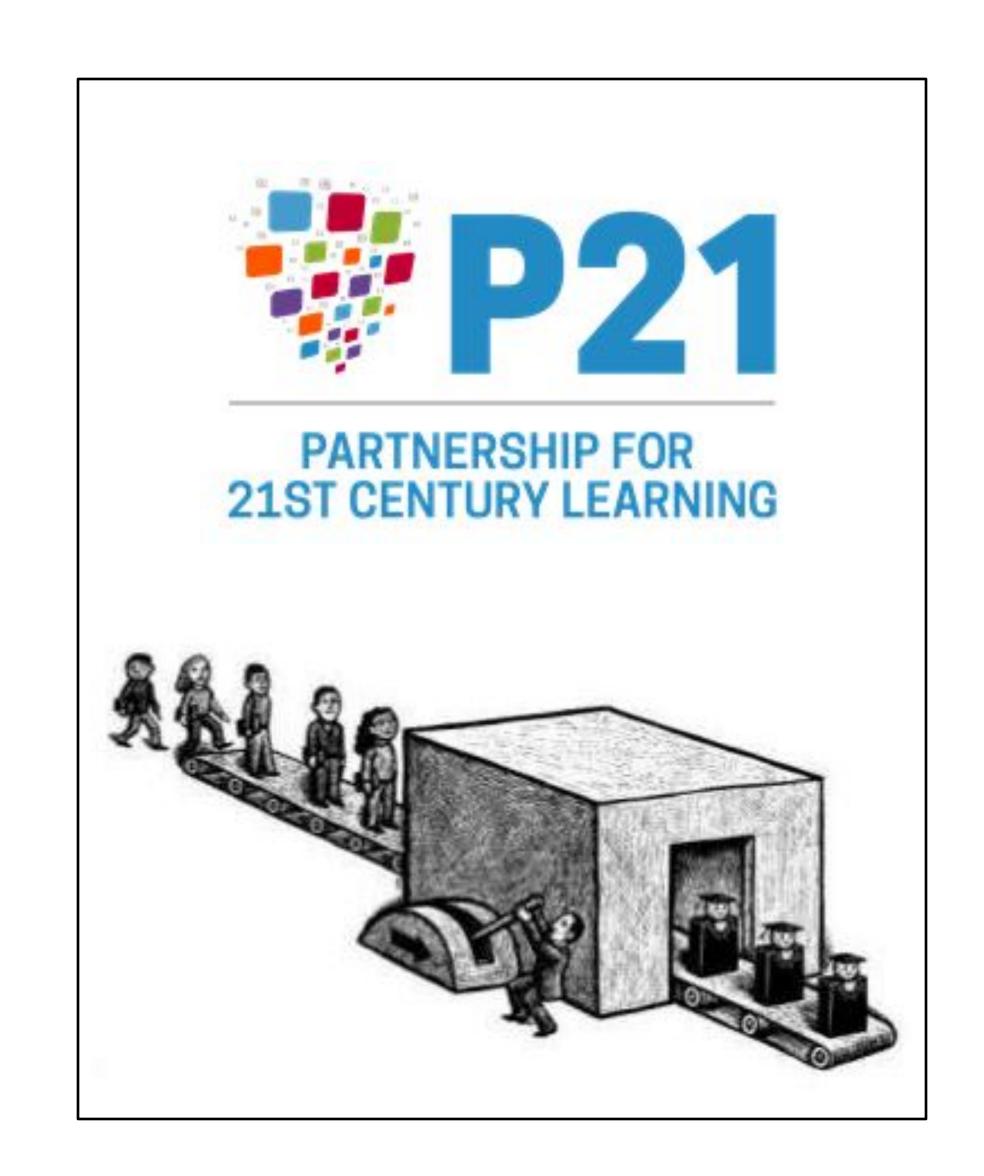
"...these skills are important to our organizations today and will become even more important in the future."







A New Model



Uh-Oh!

48%

~16 Months



Ron Johnson (Creative Genius)

17 Months

~\$6 **B**illion





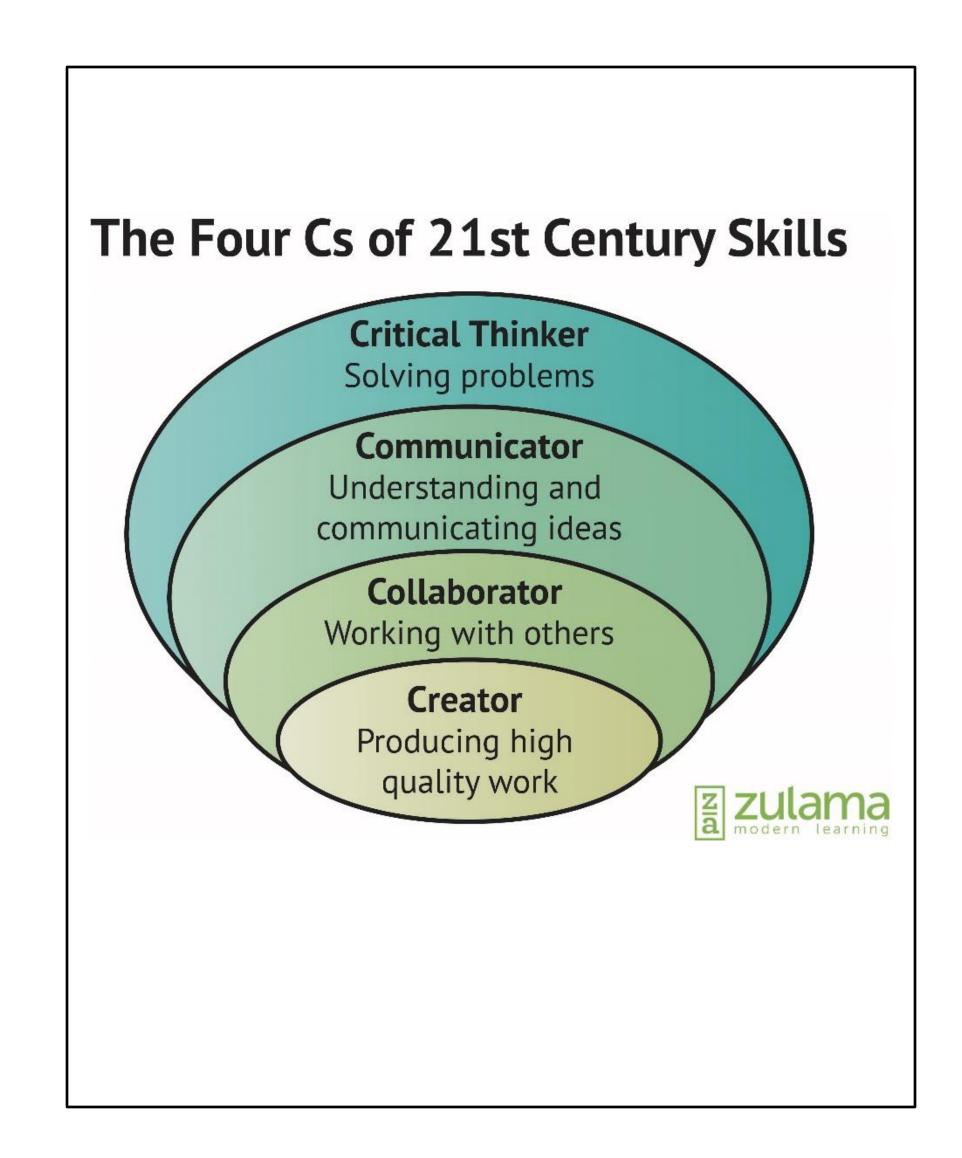
Carly Fiorina (Collaboration Guru)

Divided Board

30,000 Layoffs

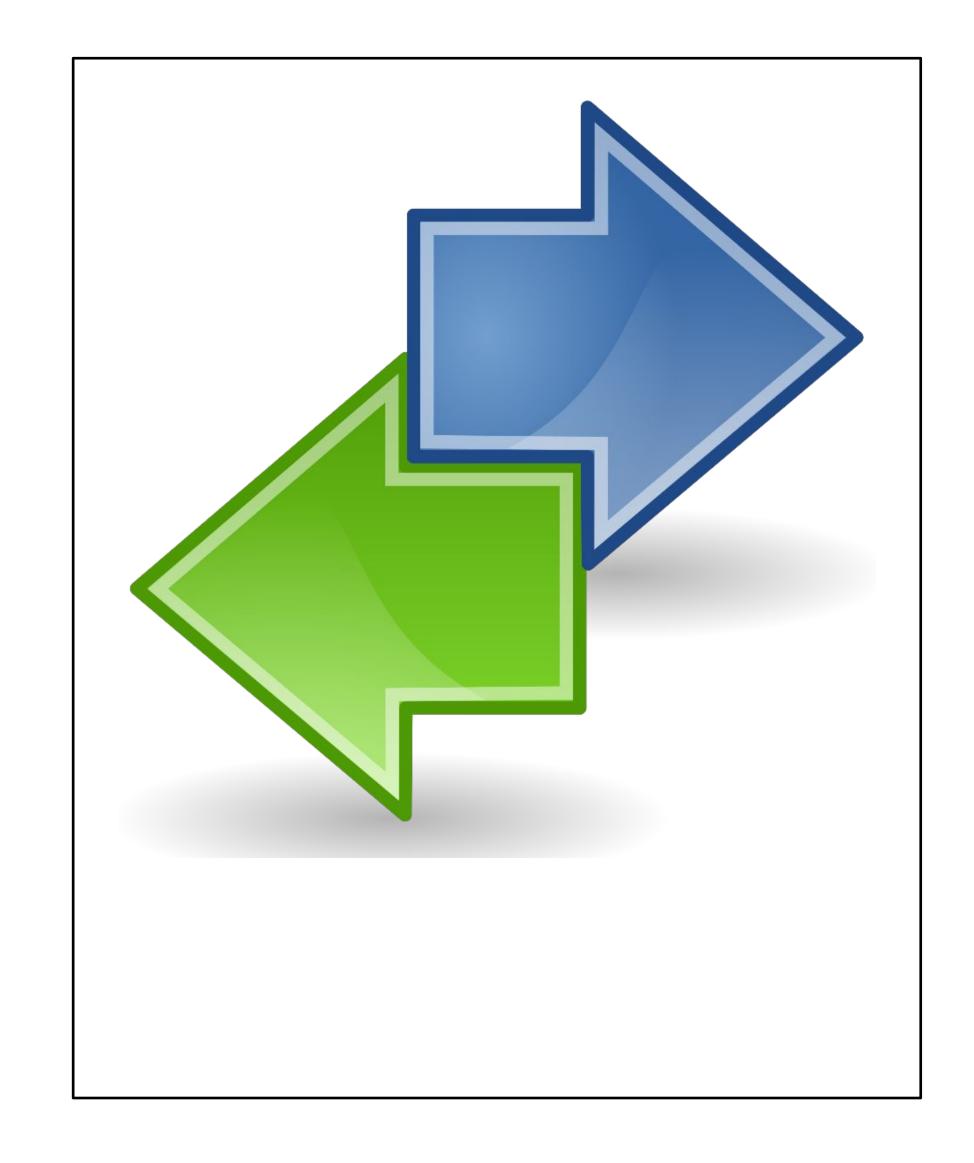


What's Happening?

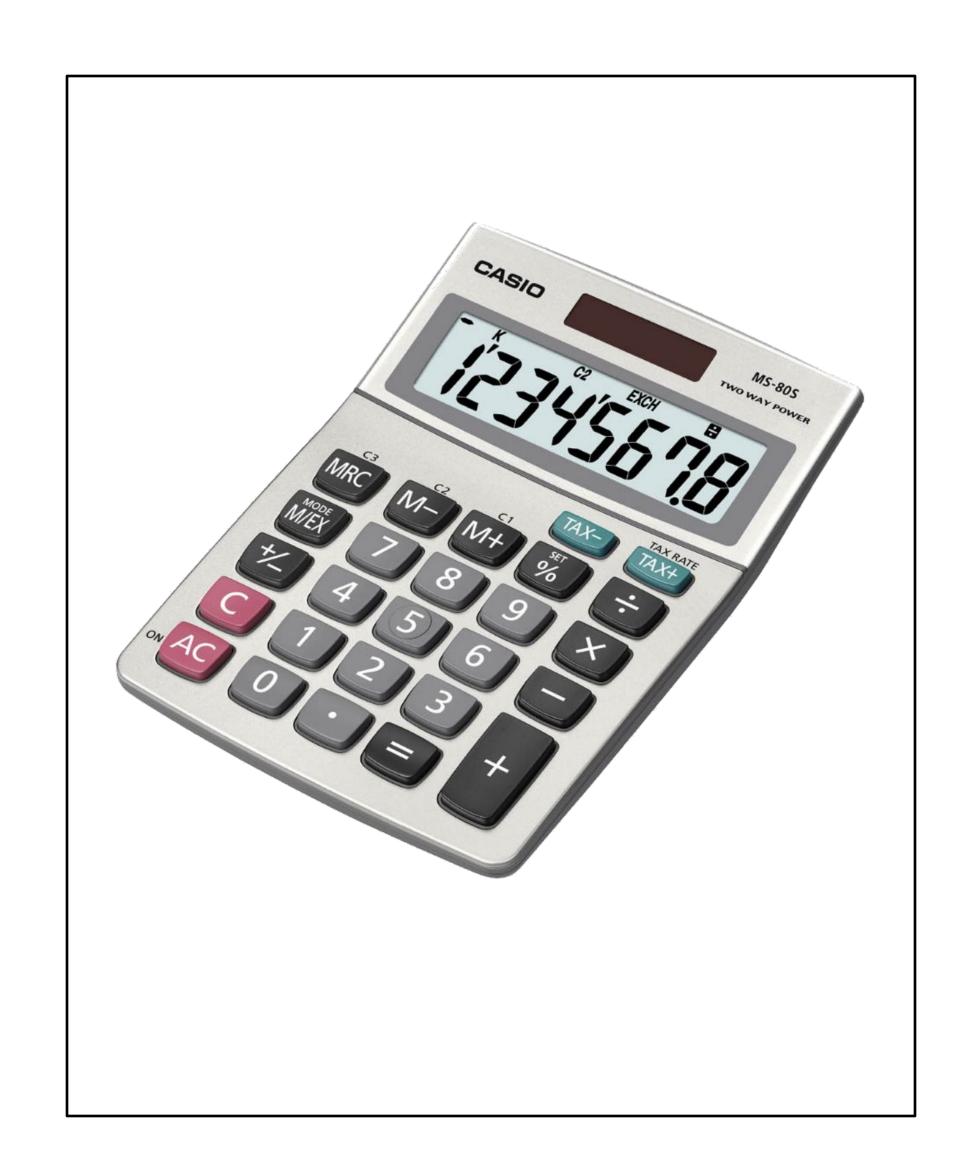


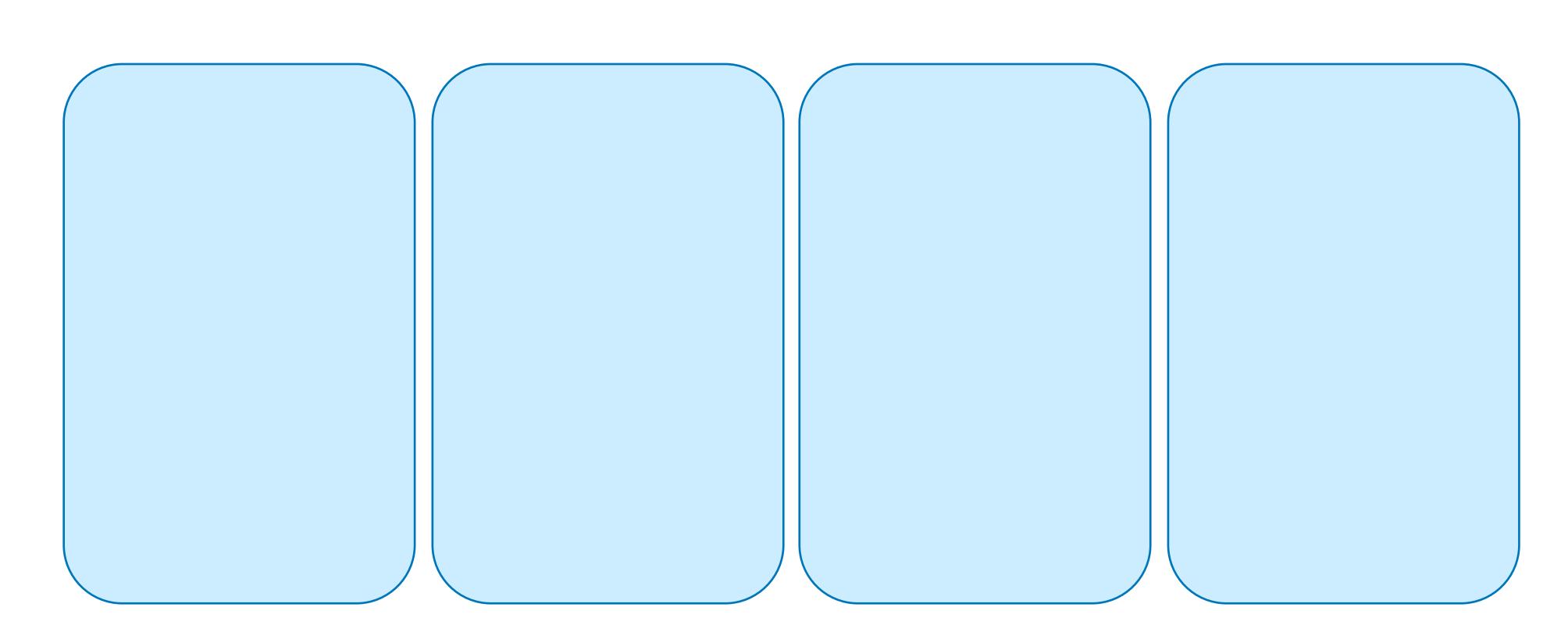
The Transfer Dilemma

Knowledge



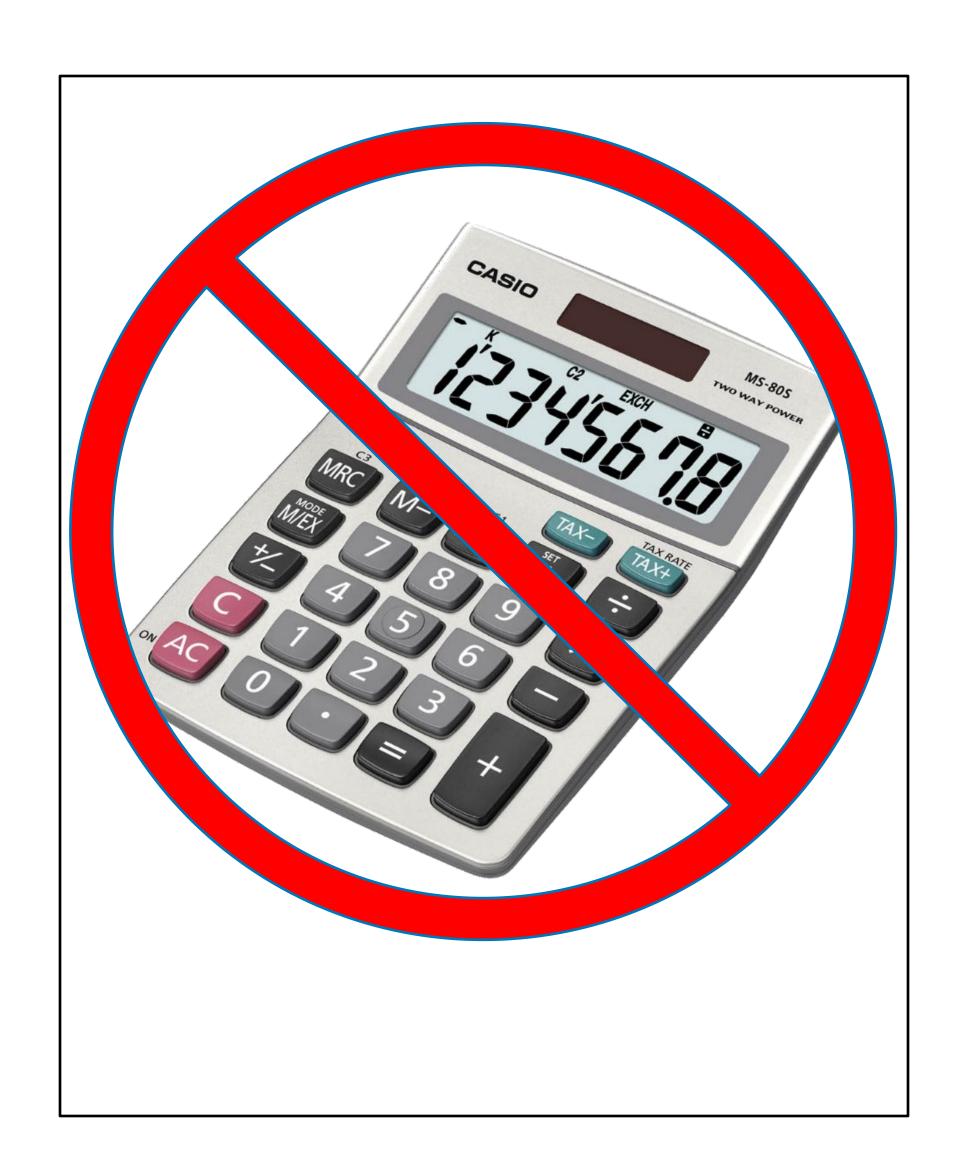
The Big Secret





31 COKE BEER

The Big Secret

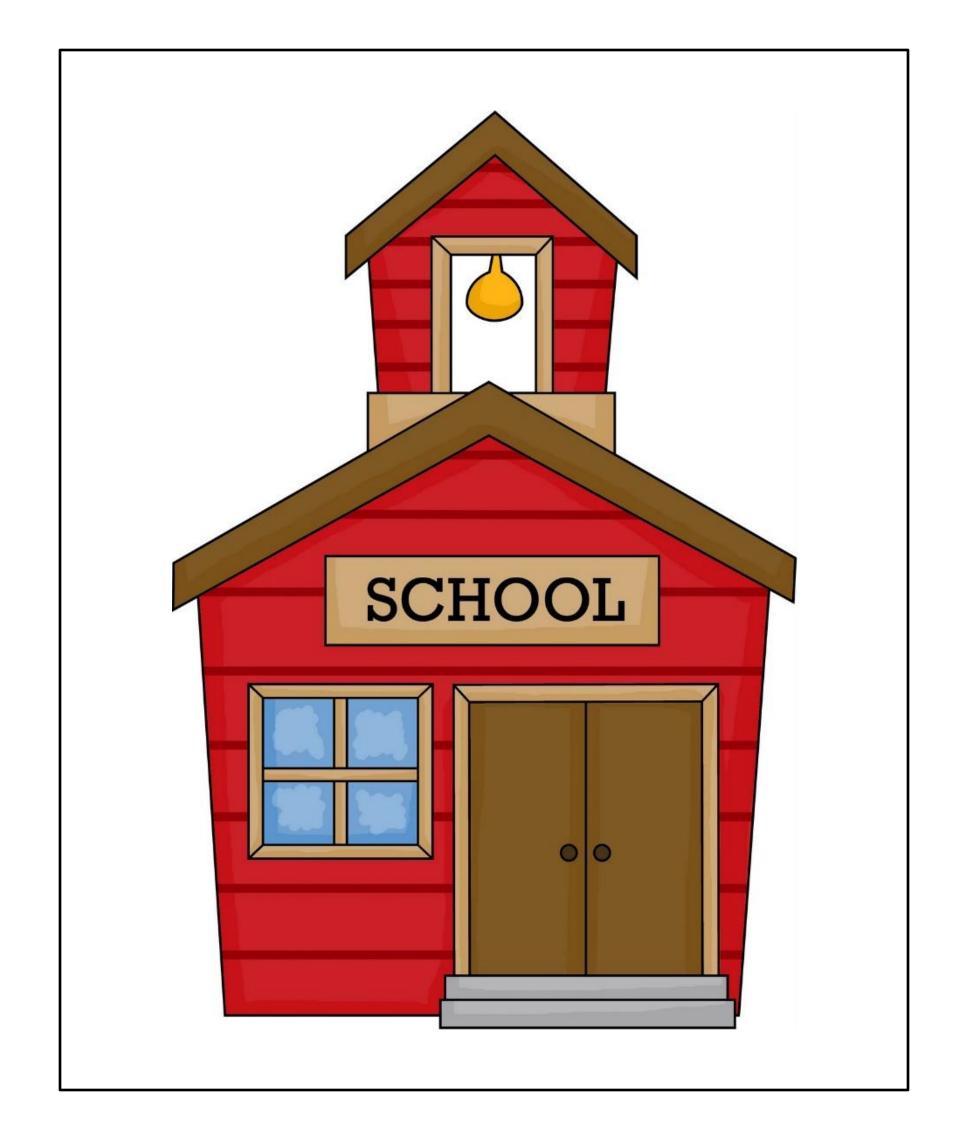


Critical Thinking



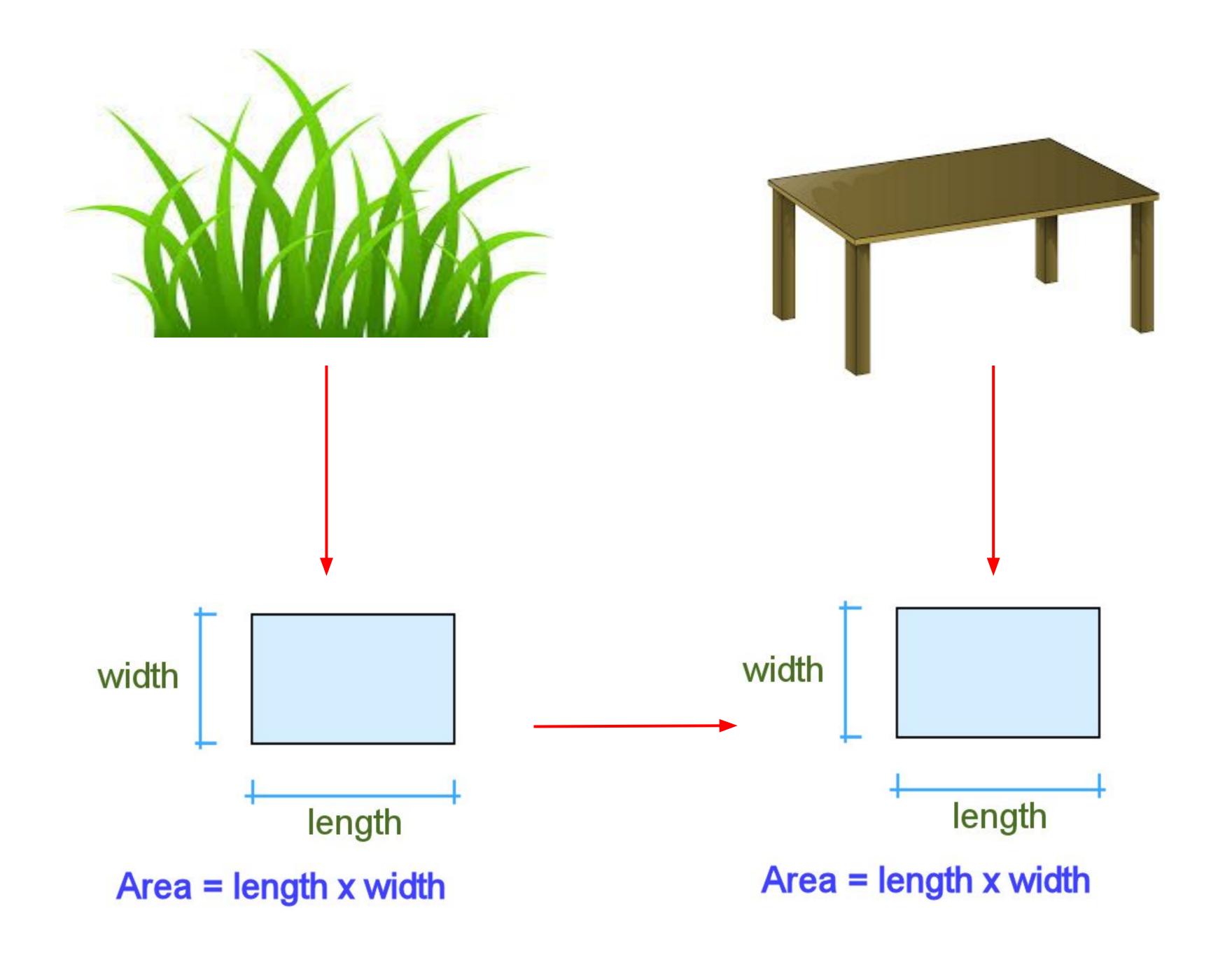
Transfer Lessons

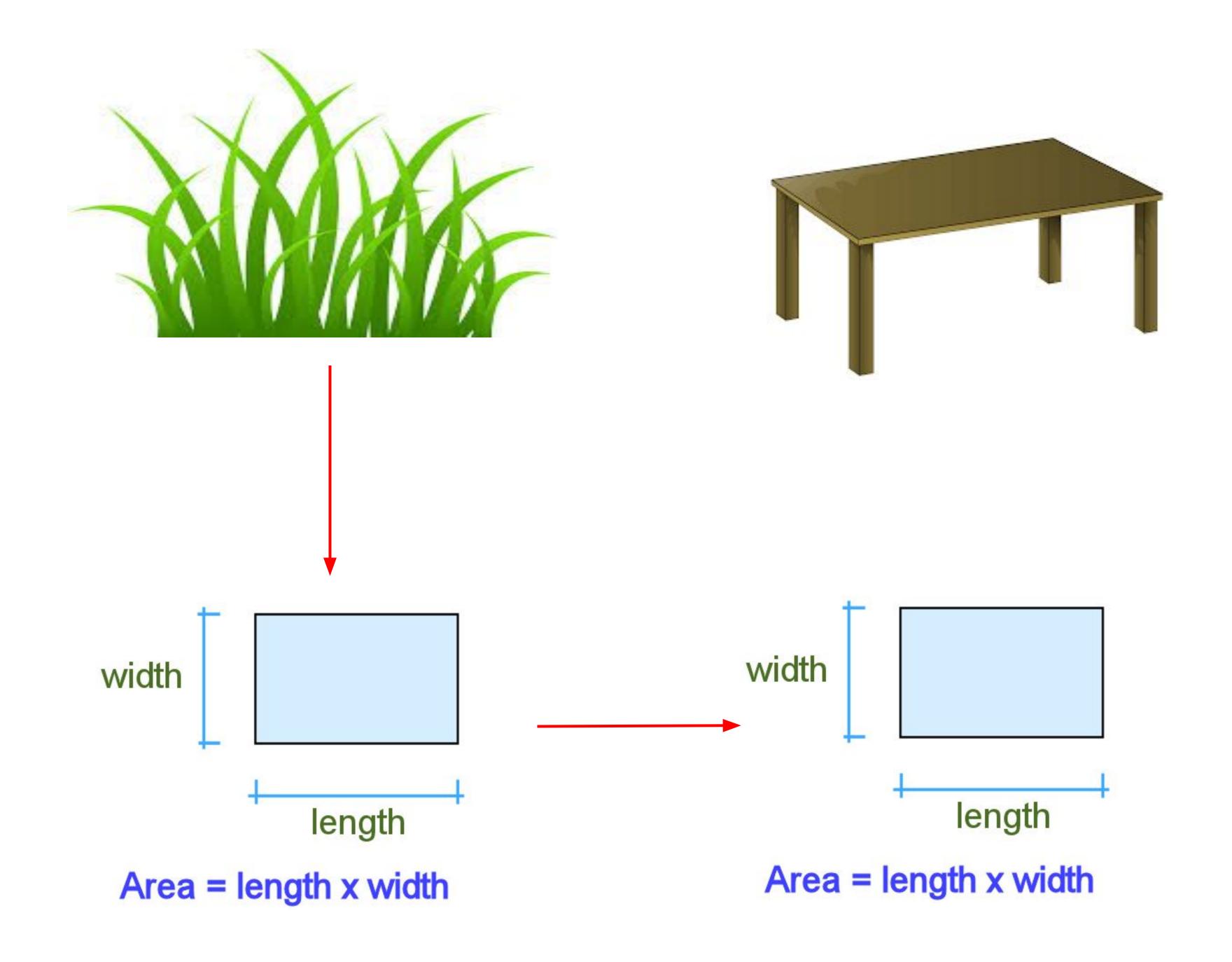
1) Skill transfer requires new domain knowledge.



Two Questions...







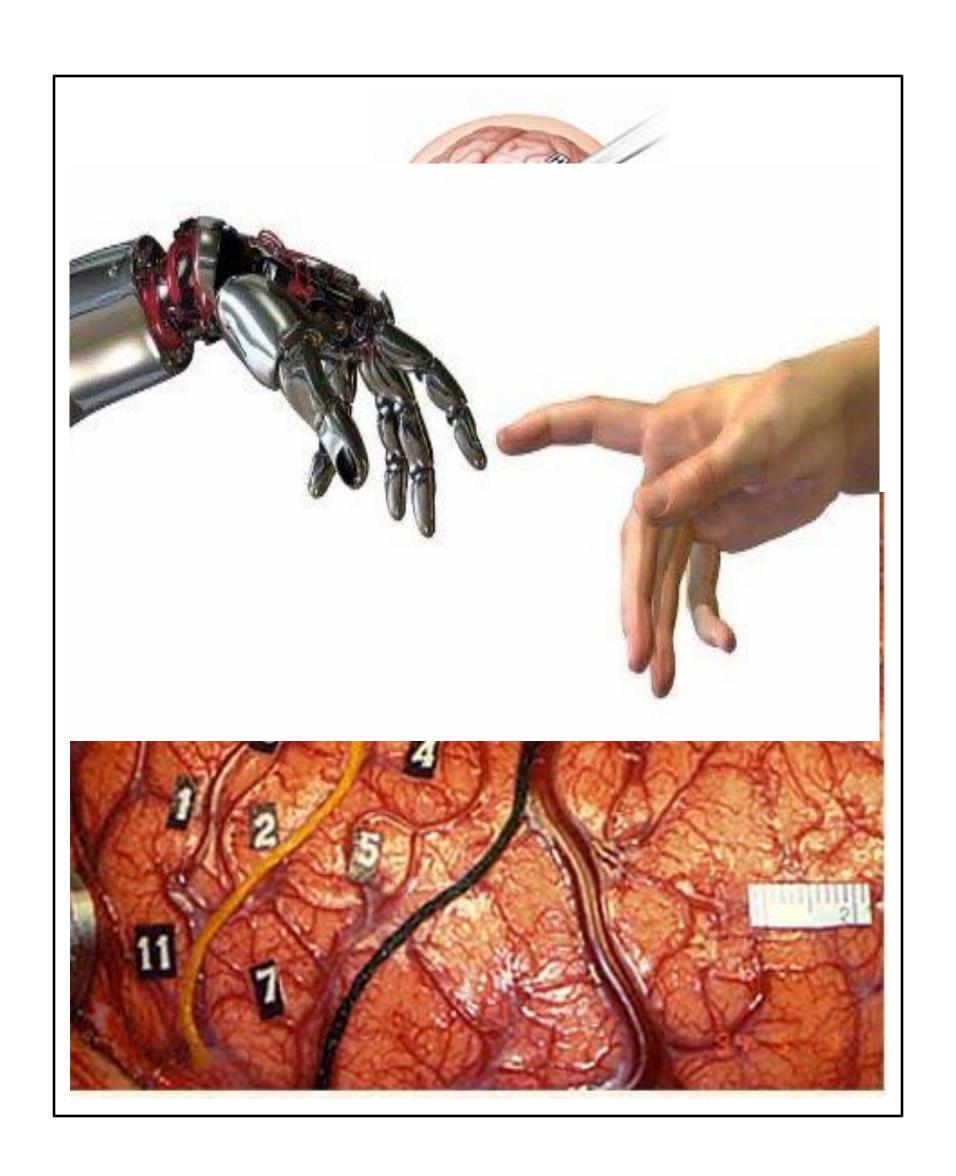
The Transfer Problem

Knowledge

Contextualization

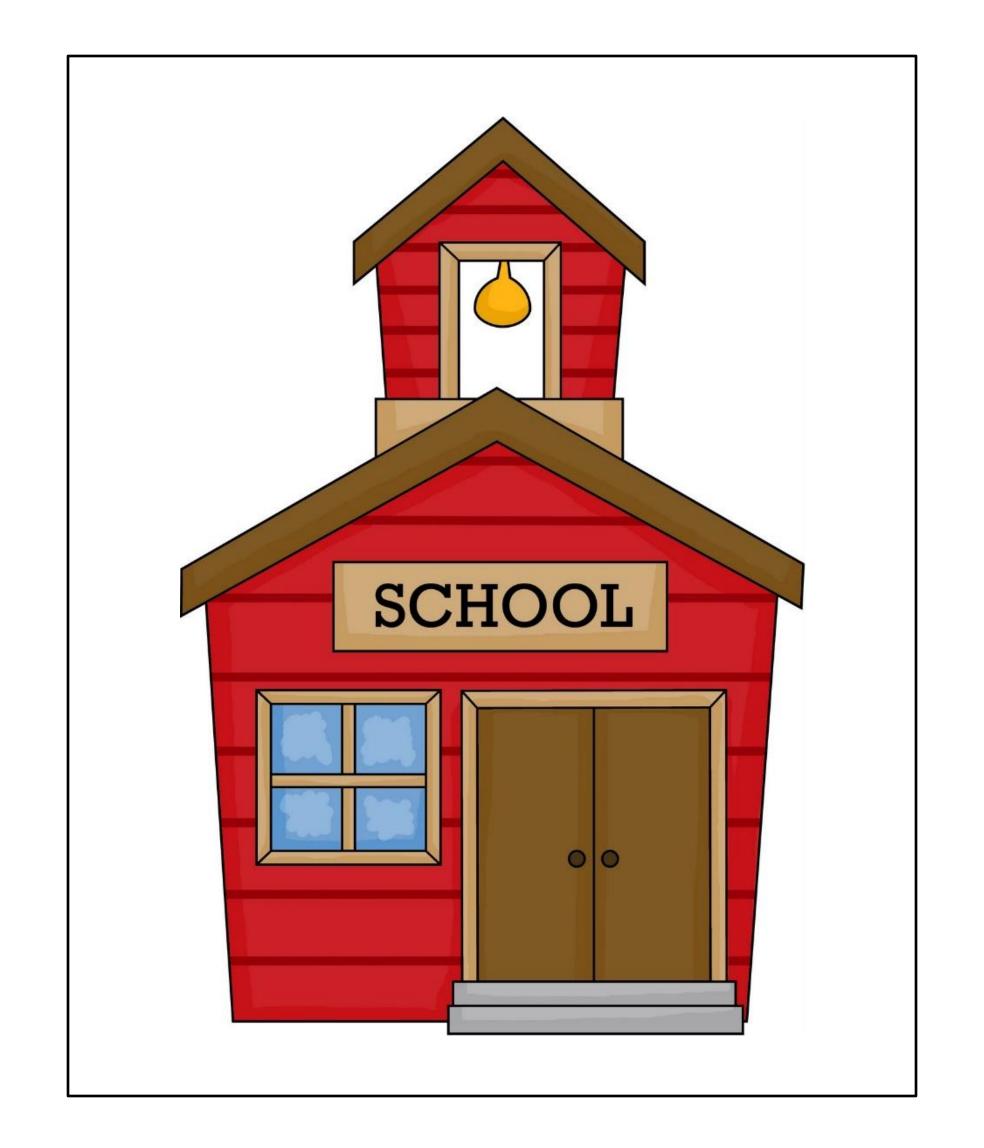


Collaboration



Transfer Lessons

- 1) Skill transfer requires new domain knowledge.
- 2) Domain knowledge is used to select and re-define skills.









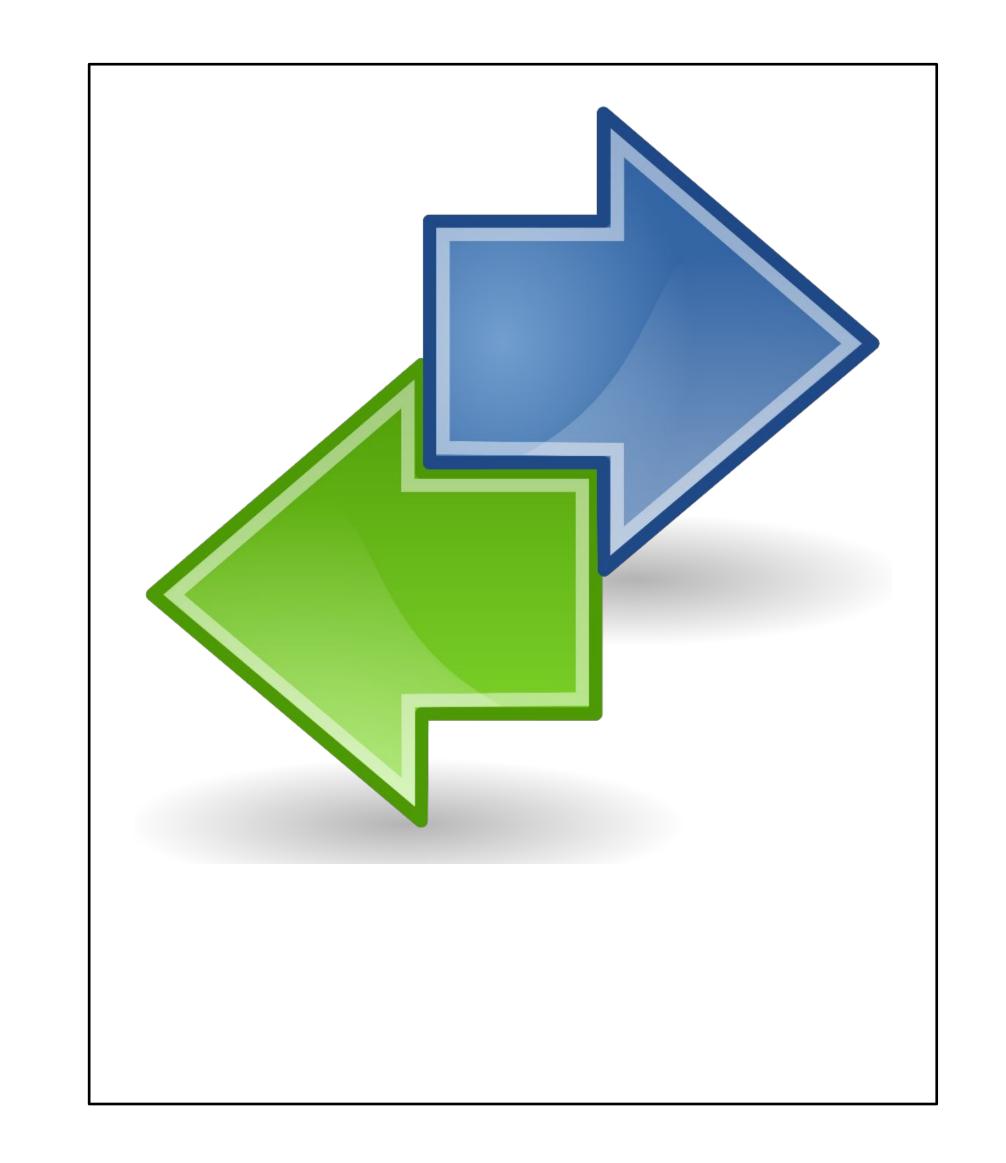


The Transfer Problem

Knowledge

Contextualization

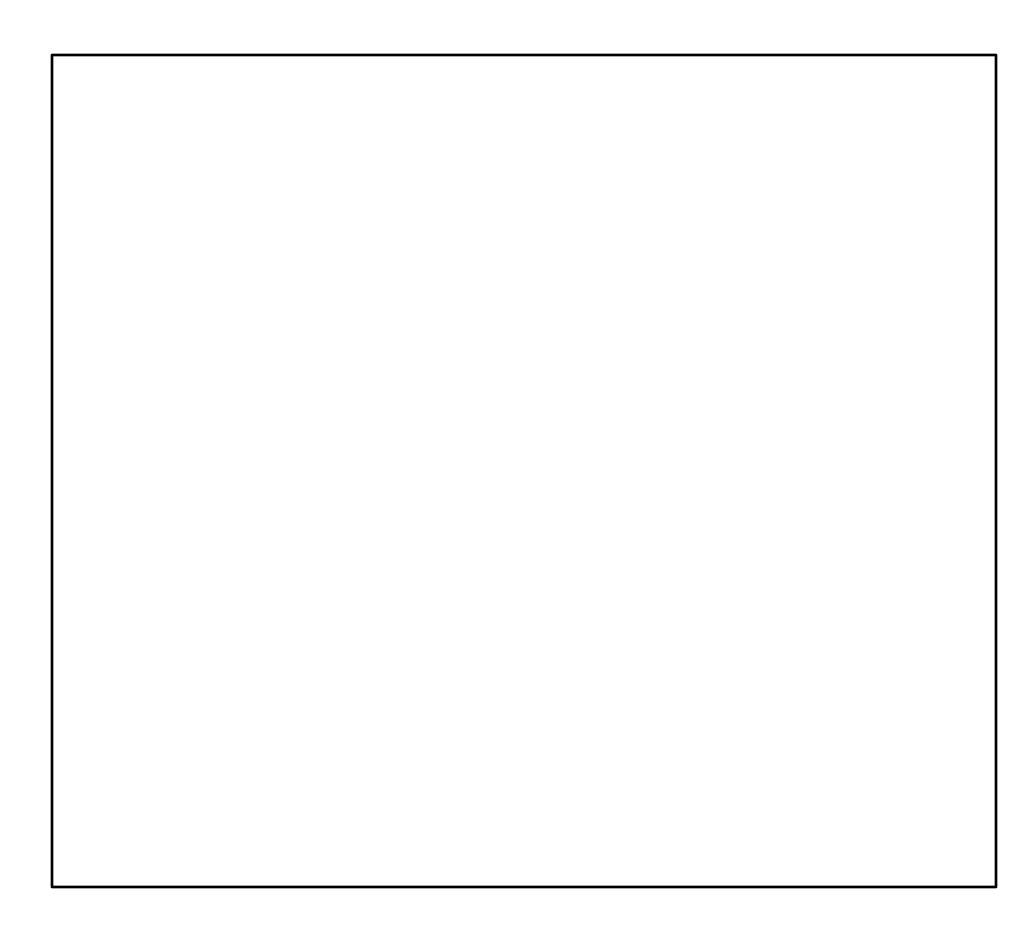
Adaptation



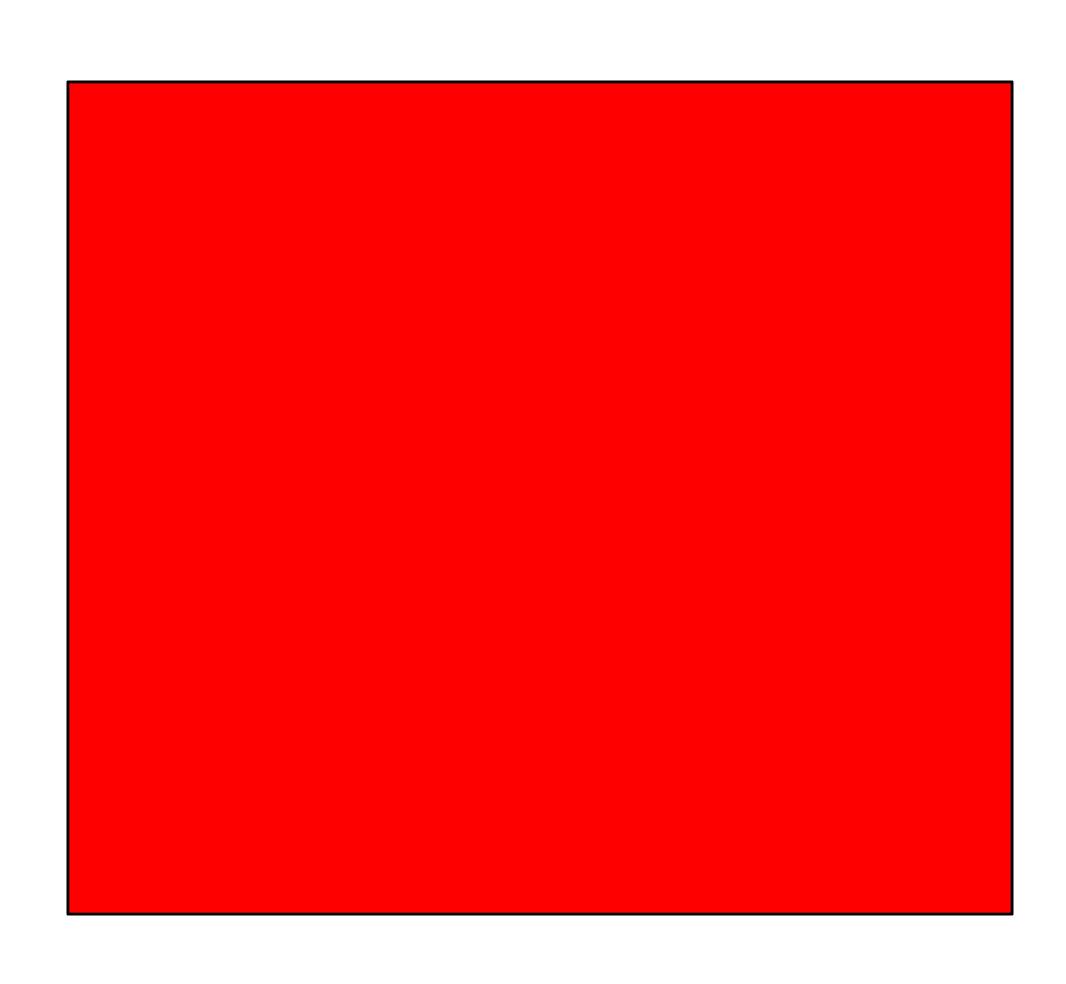
3 Foundations



Know Your Colors?



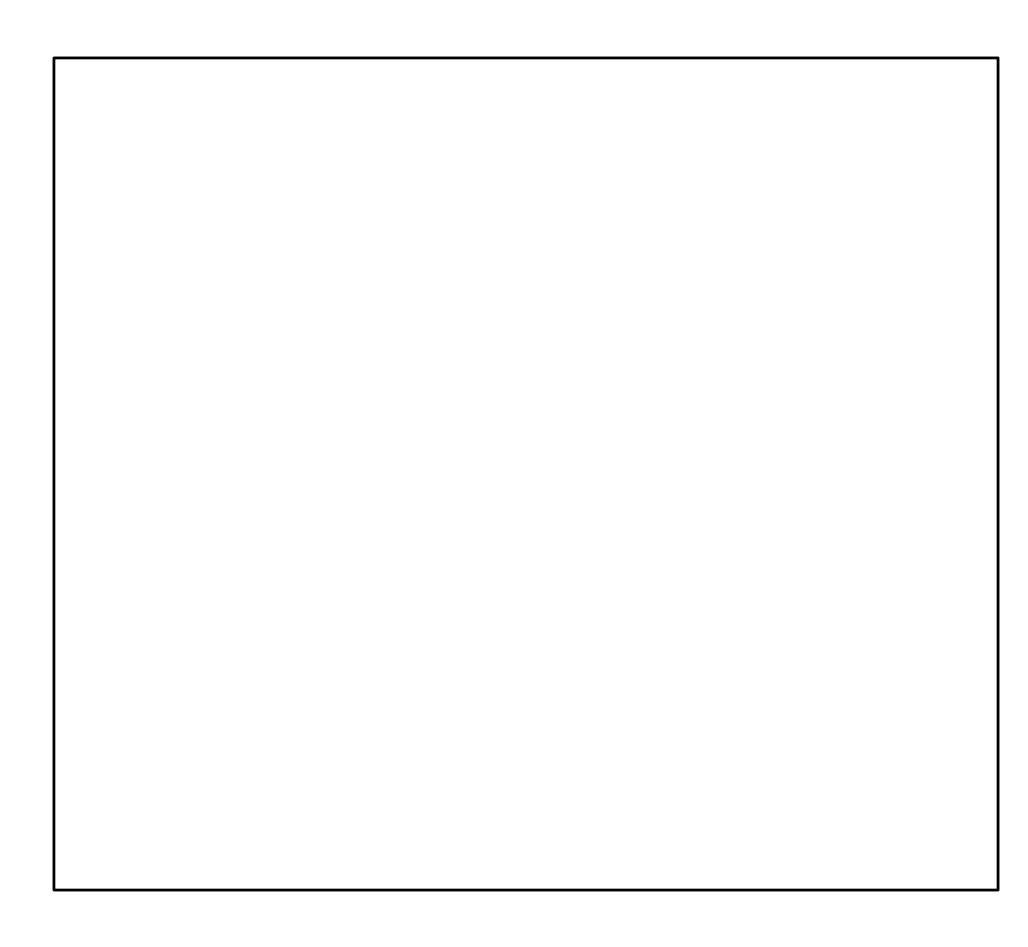
Know Your Colors?



GOO!



Know Your Words?



RED

GREEN

RED

PURPLE

BLUE

GREEN

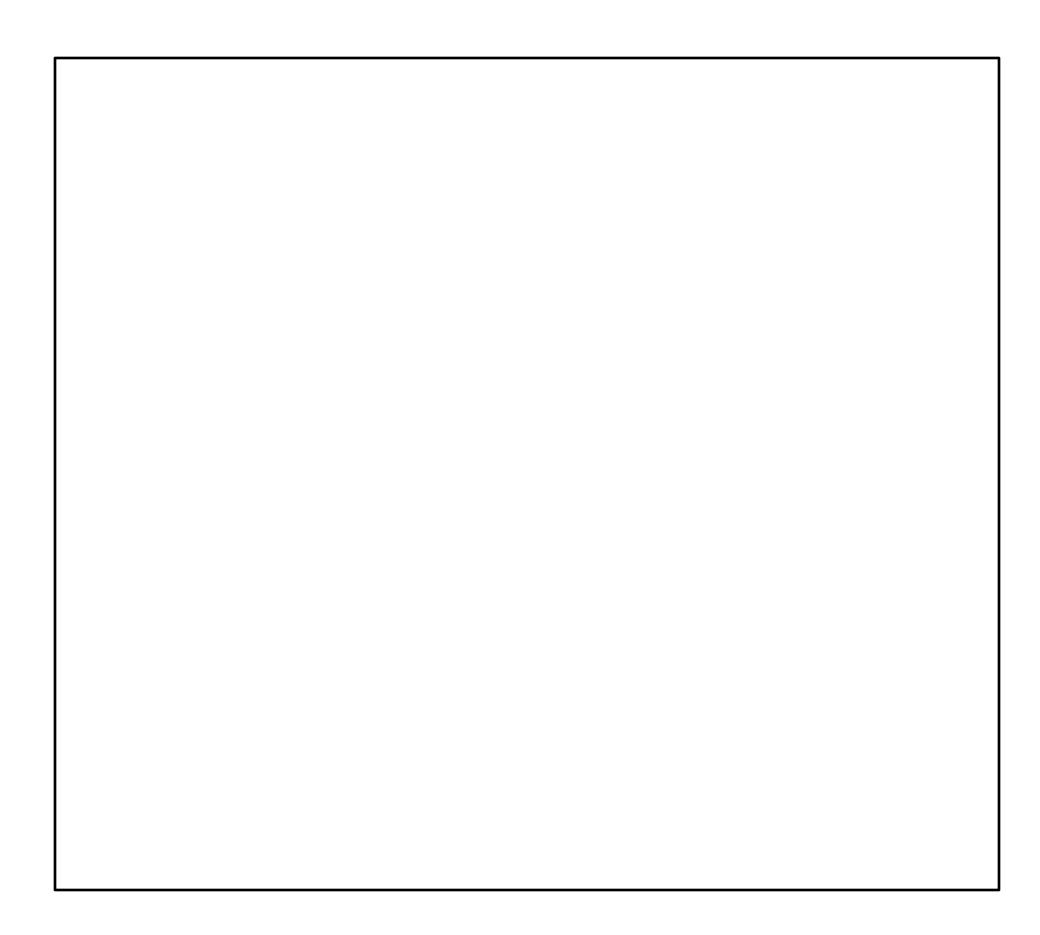
RED

BLUE

PURPLE

GOO!





RED

GREEN

PURPLE

BLUE

GREEN

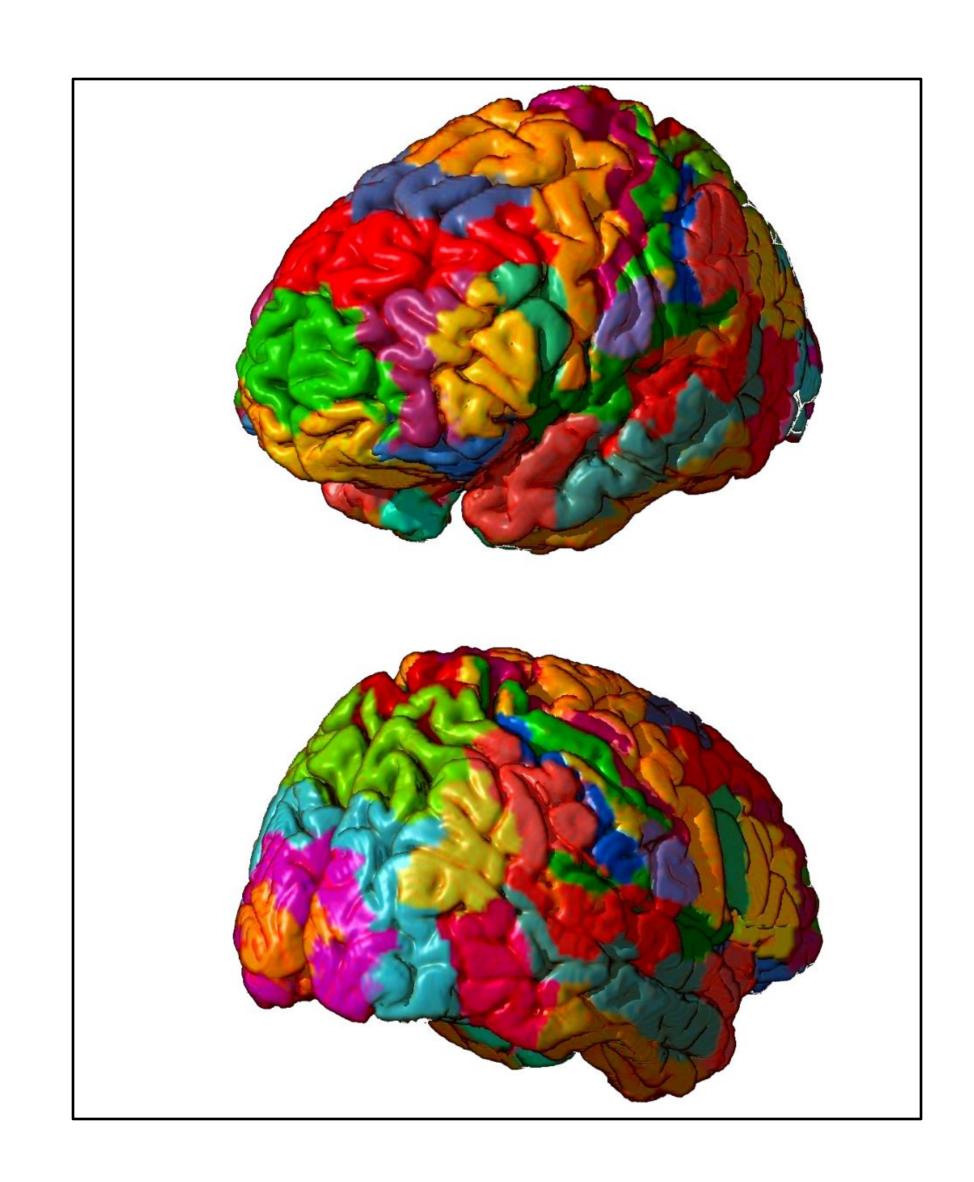
BLUE

PURPLE

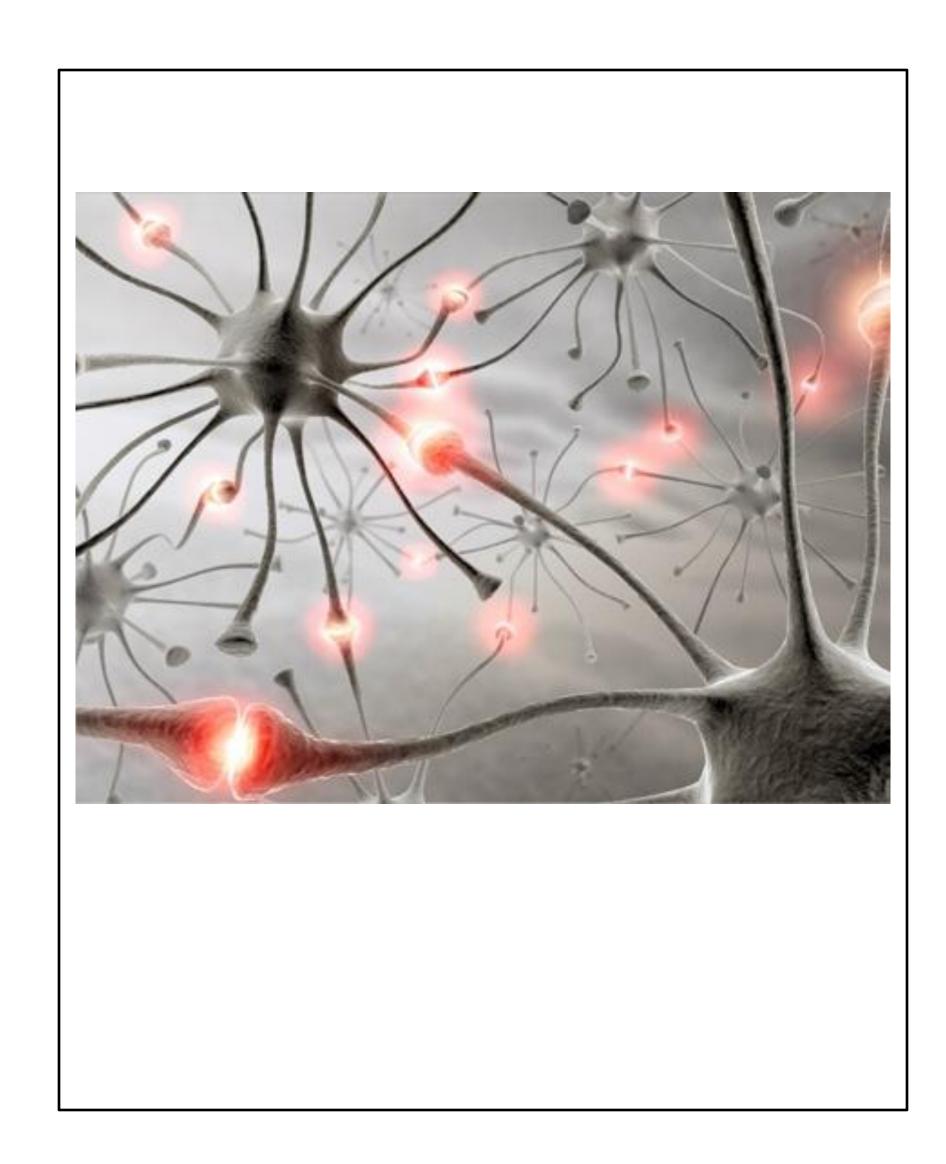
D'Oh...

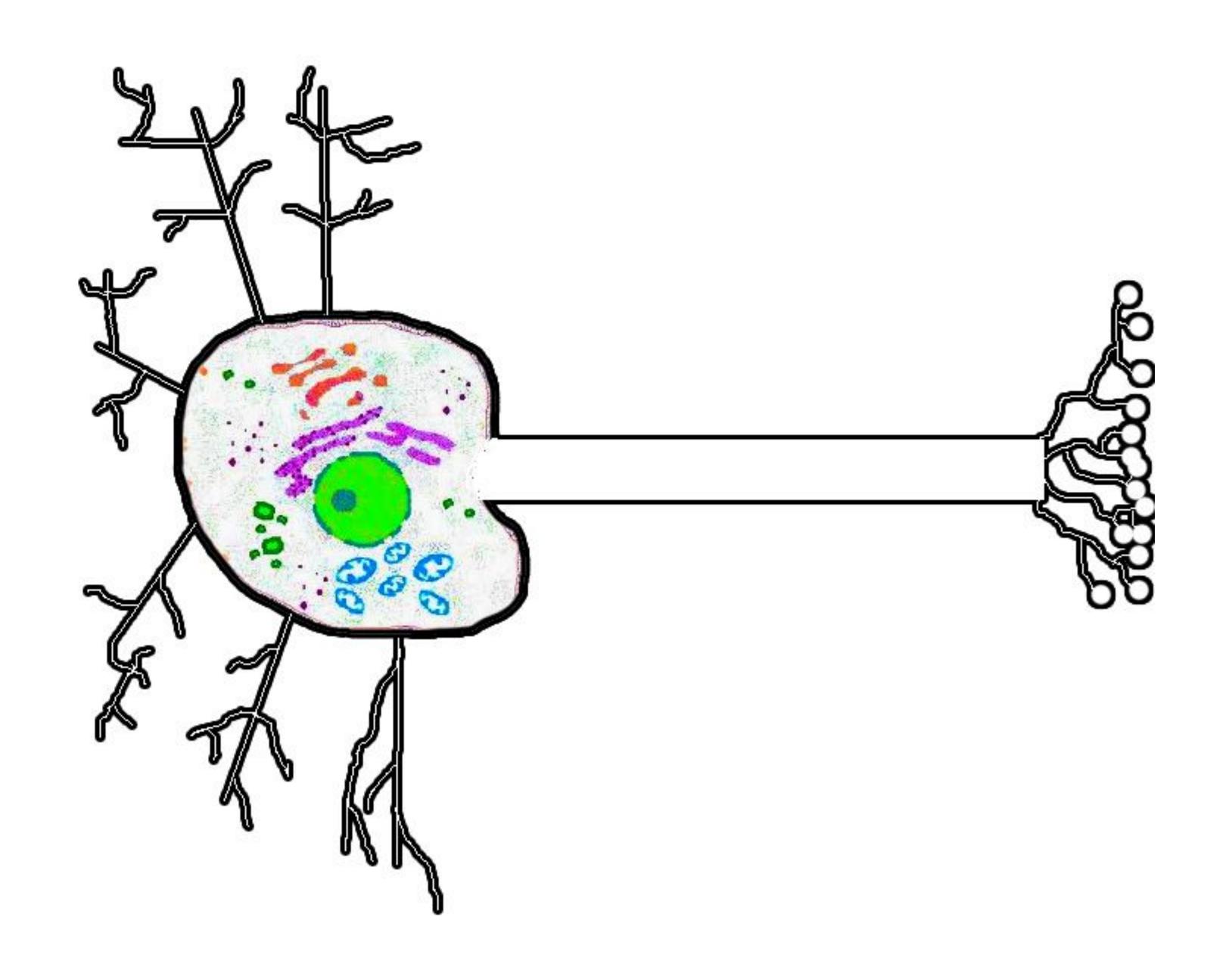


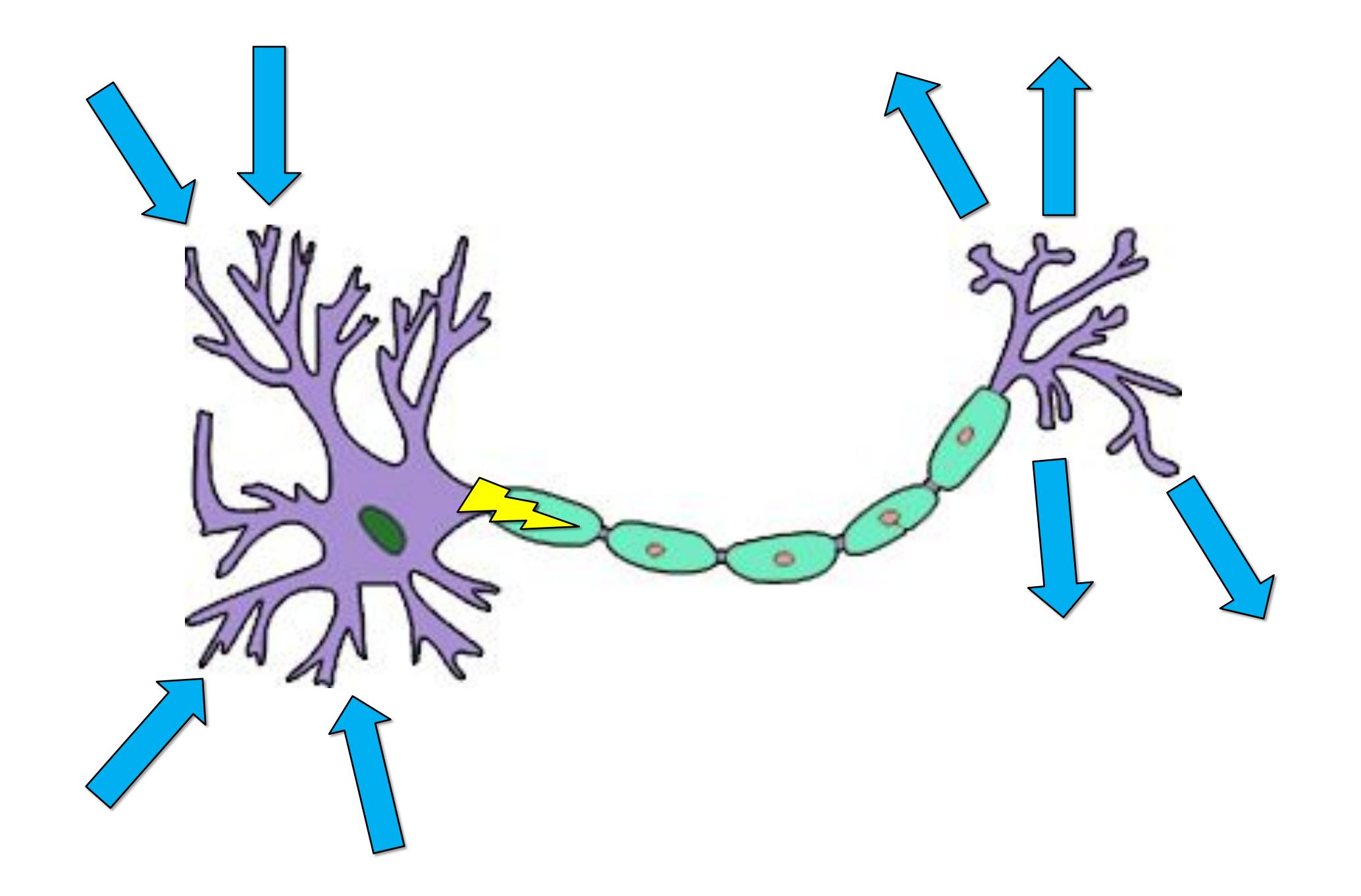
Foundation #1 Modularity

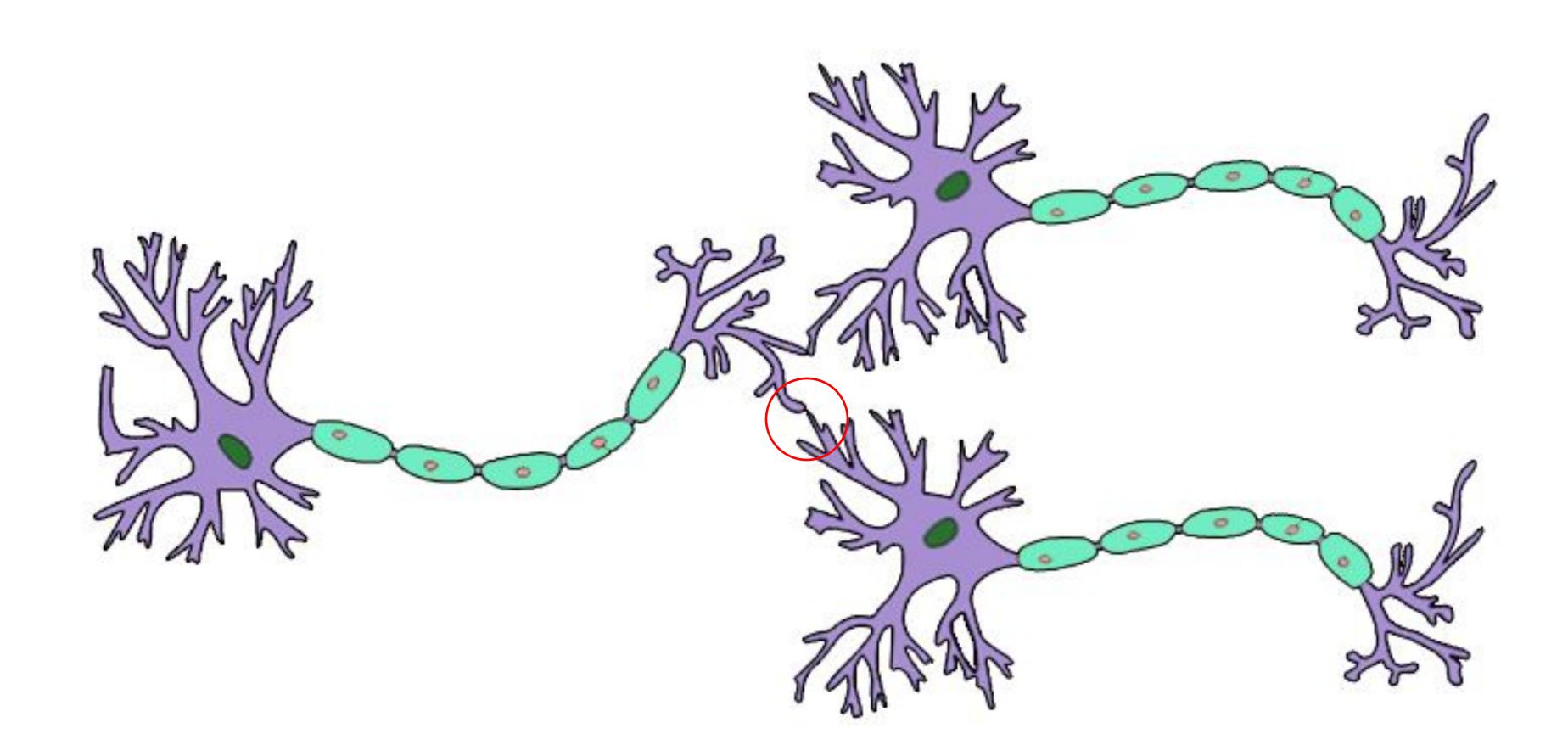


Foundation #2



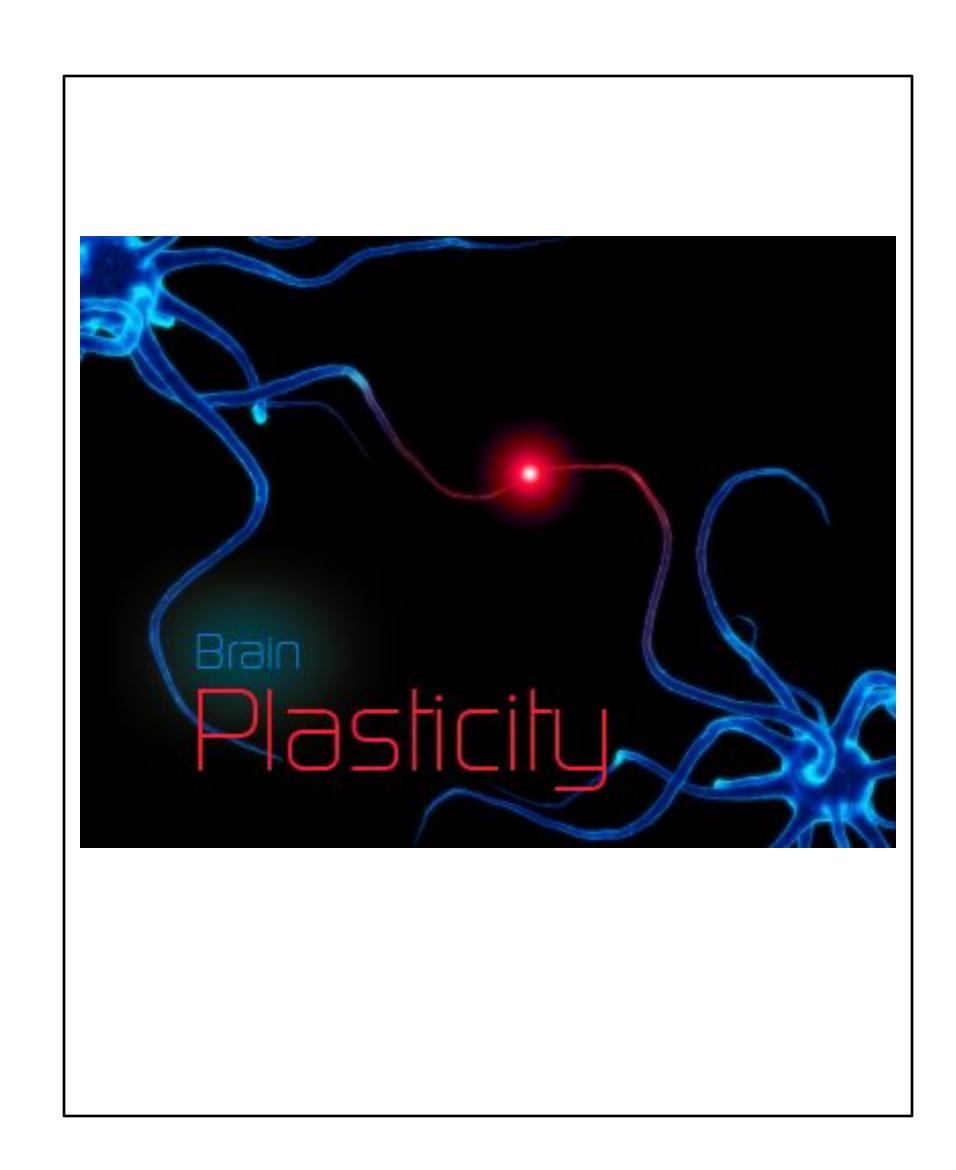


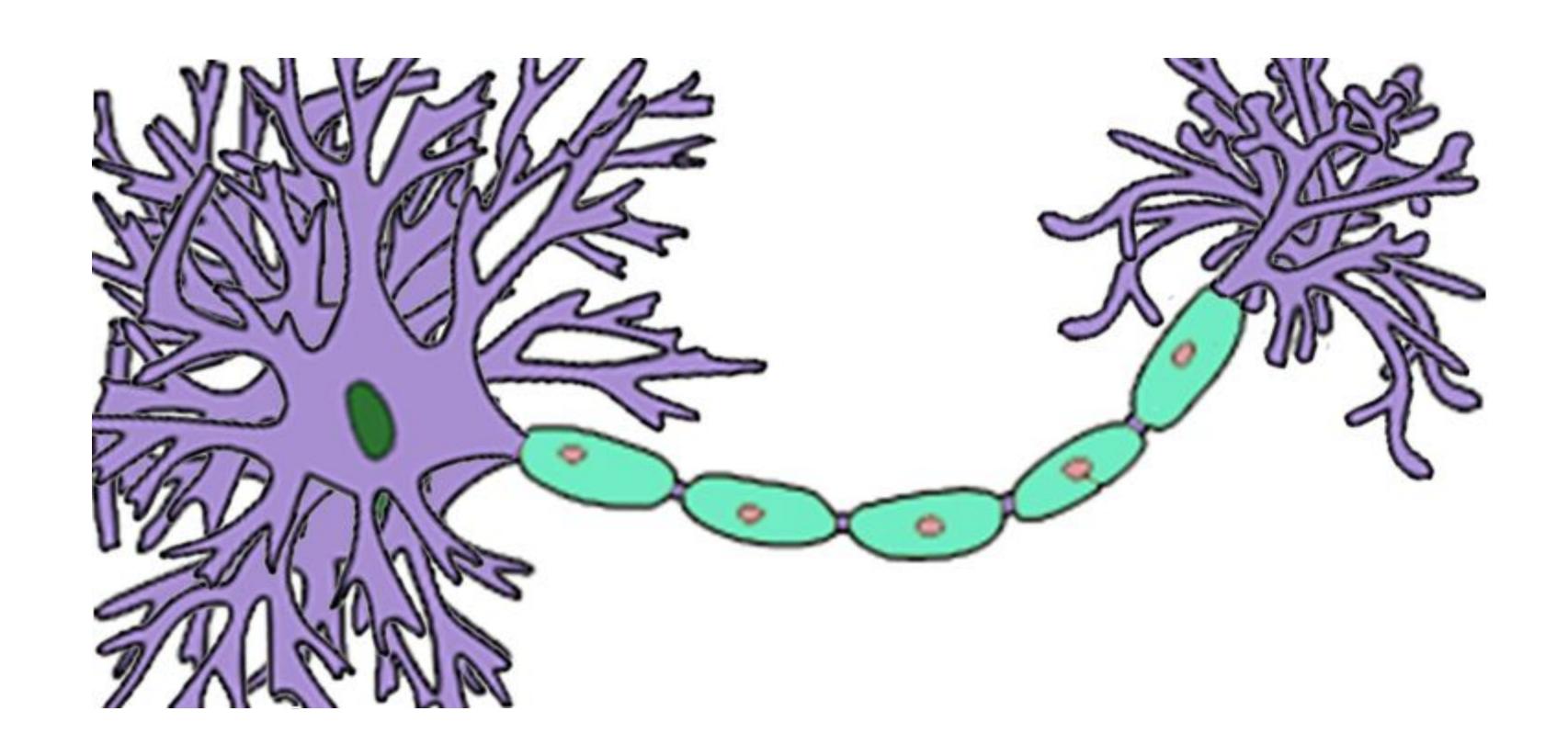




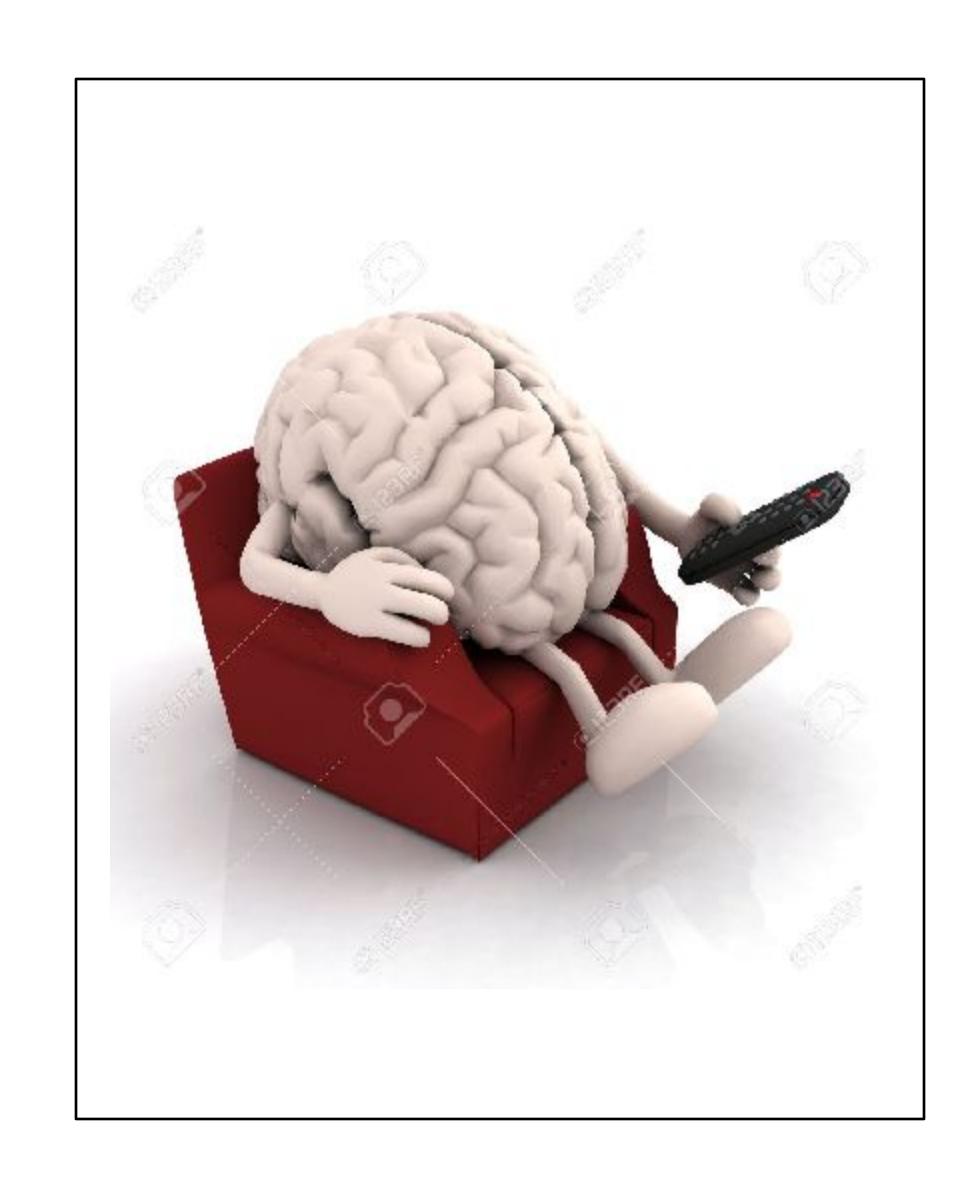


Neuroplasticity





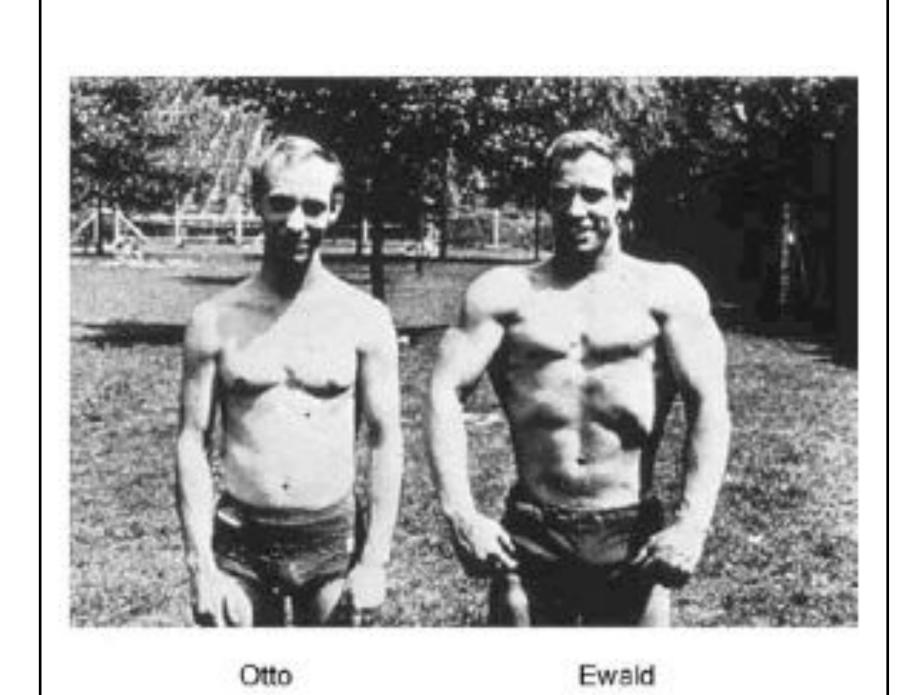
The Brain



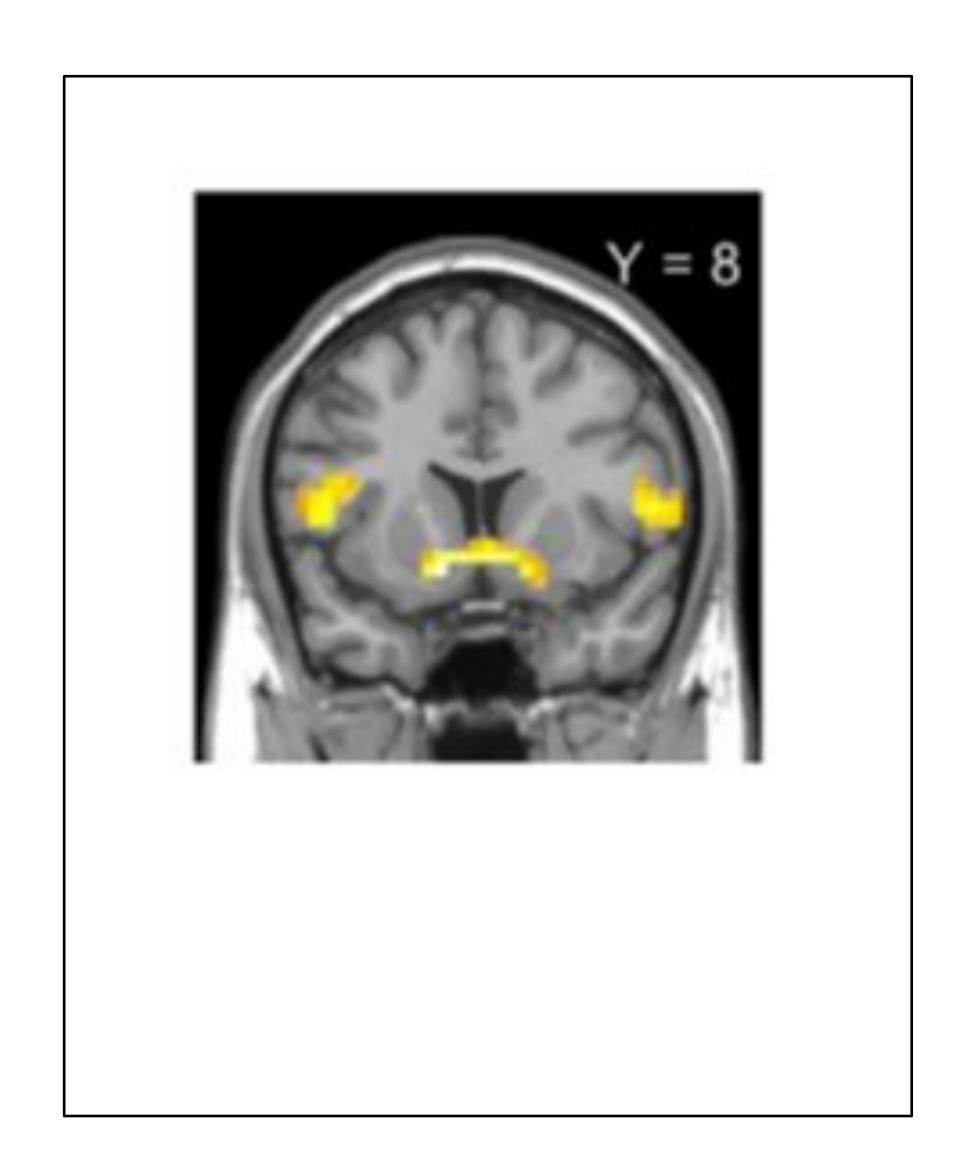
Diet



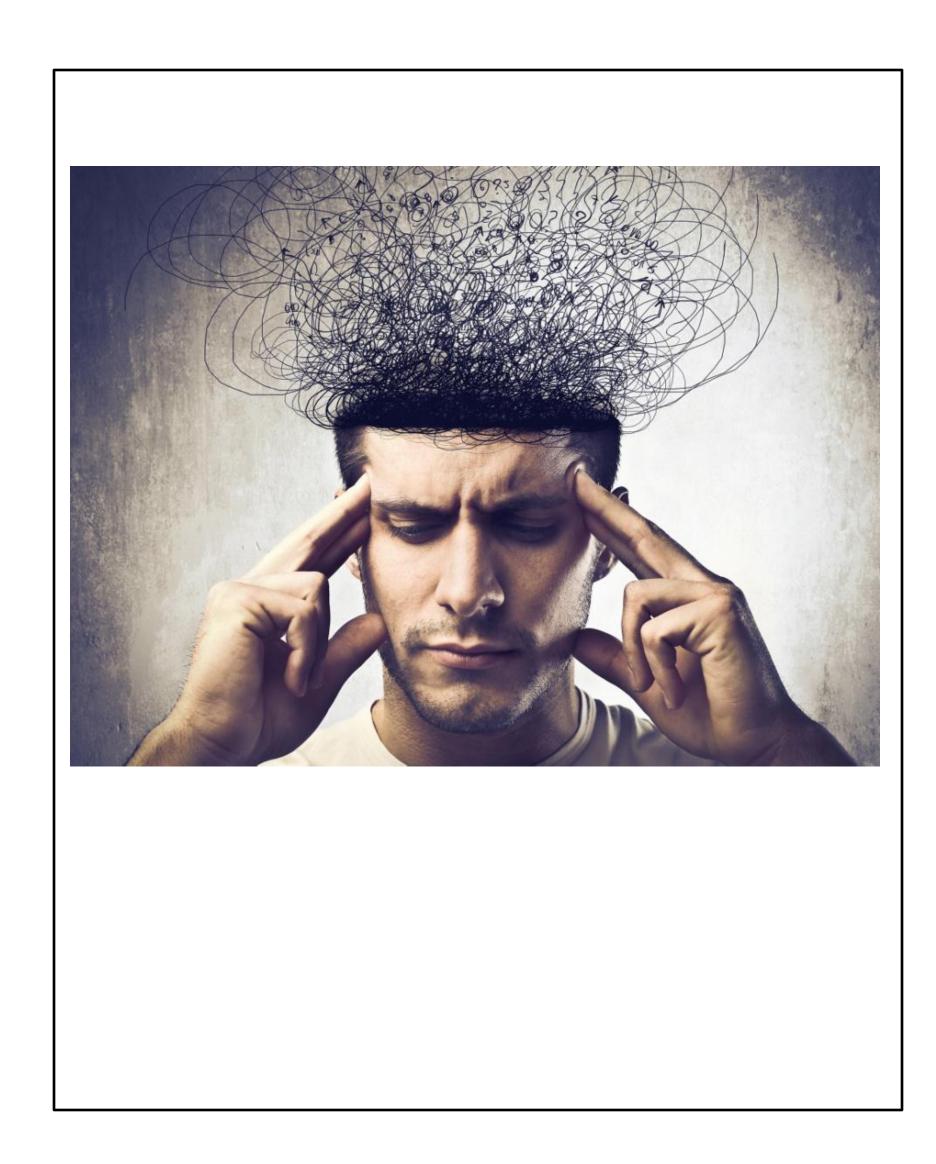
Exercise



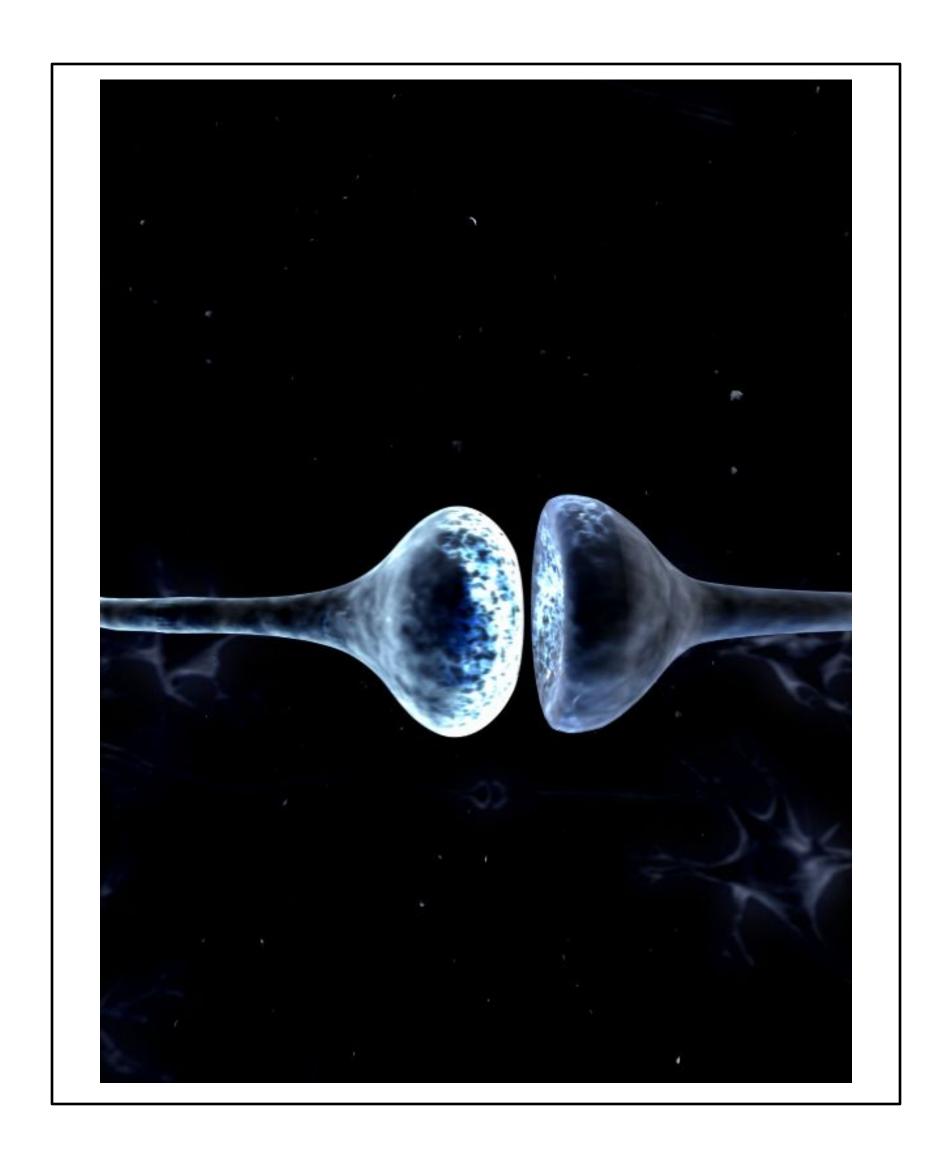
Actions



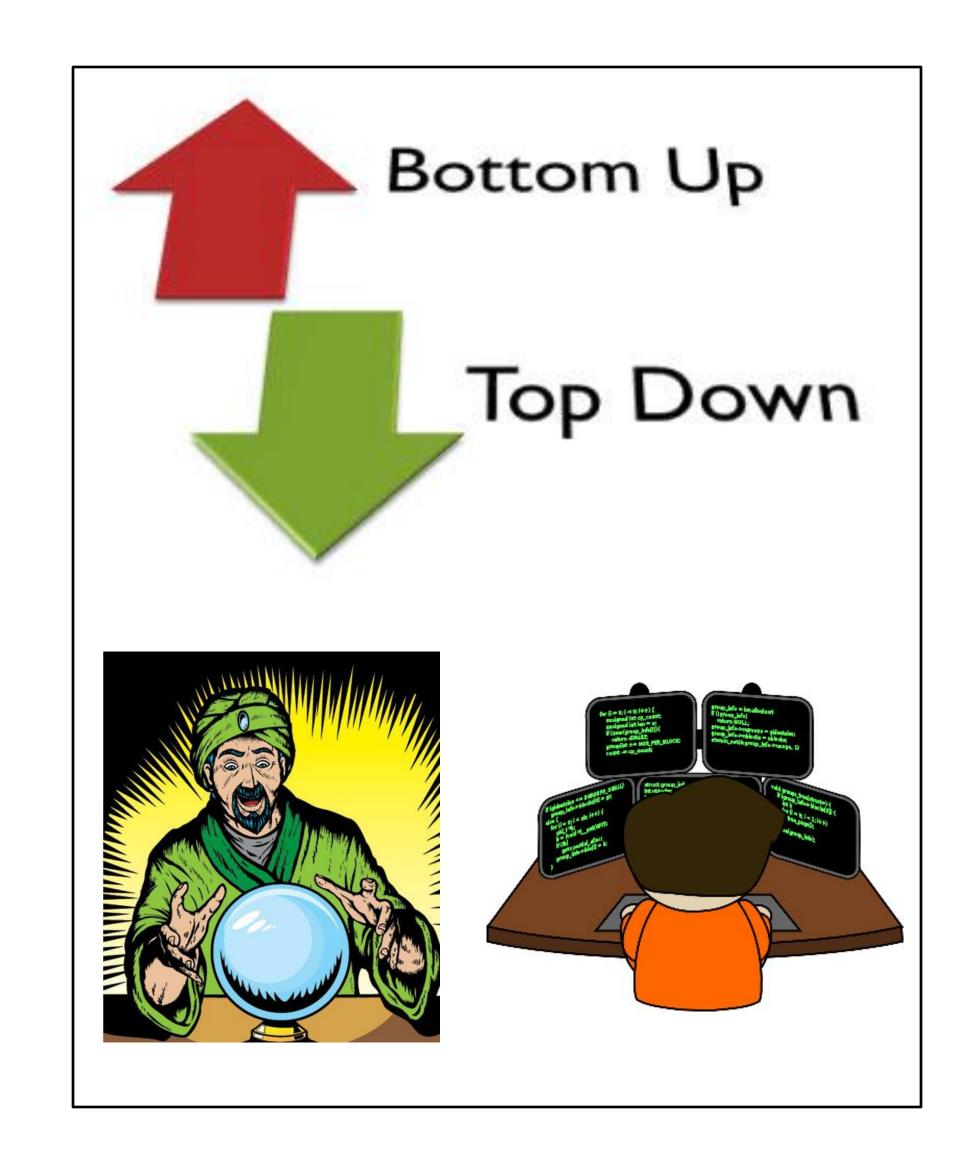
How plastic is plastic?



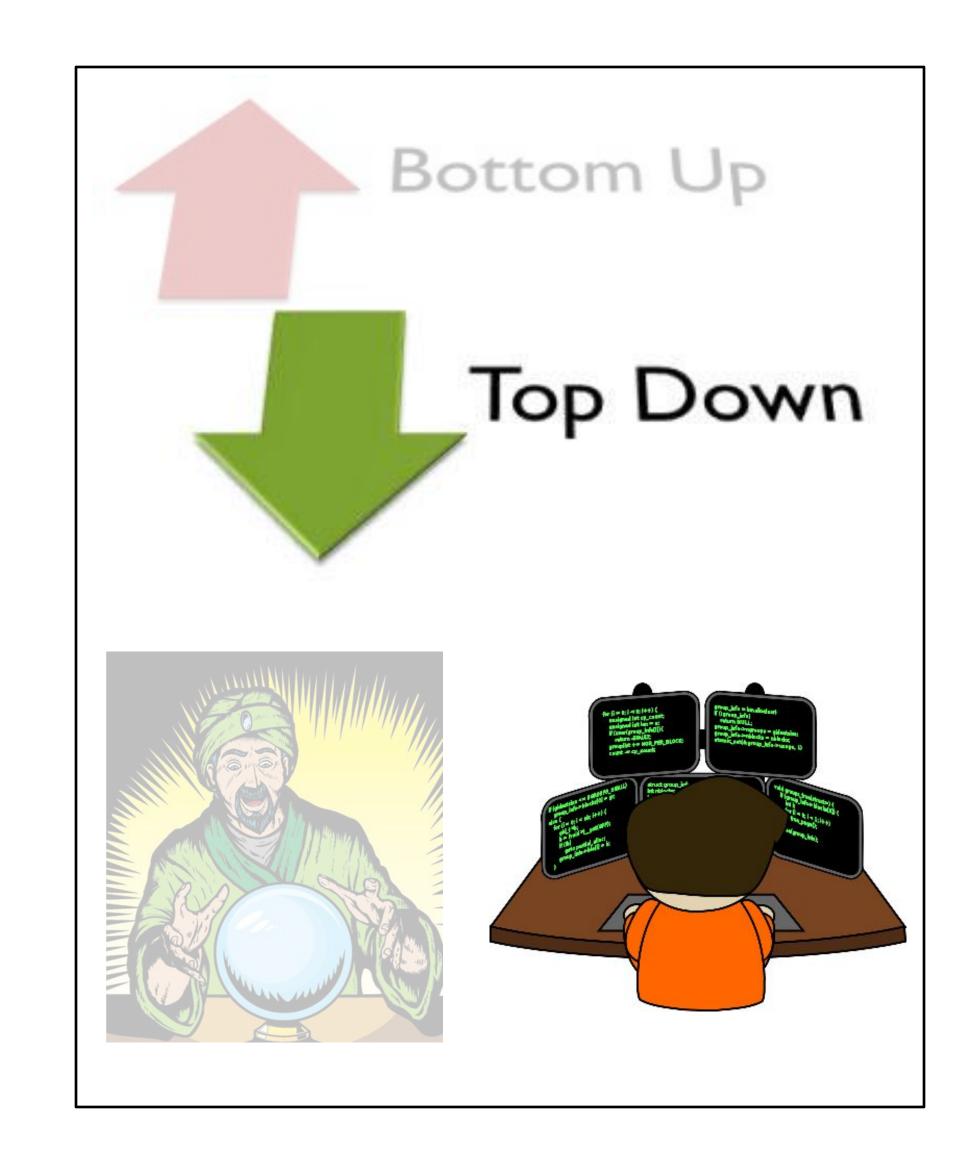
Foundation #2 Synaptic Plasticity



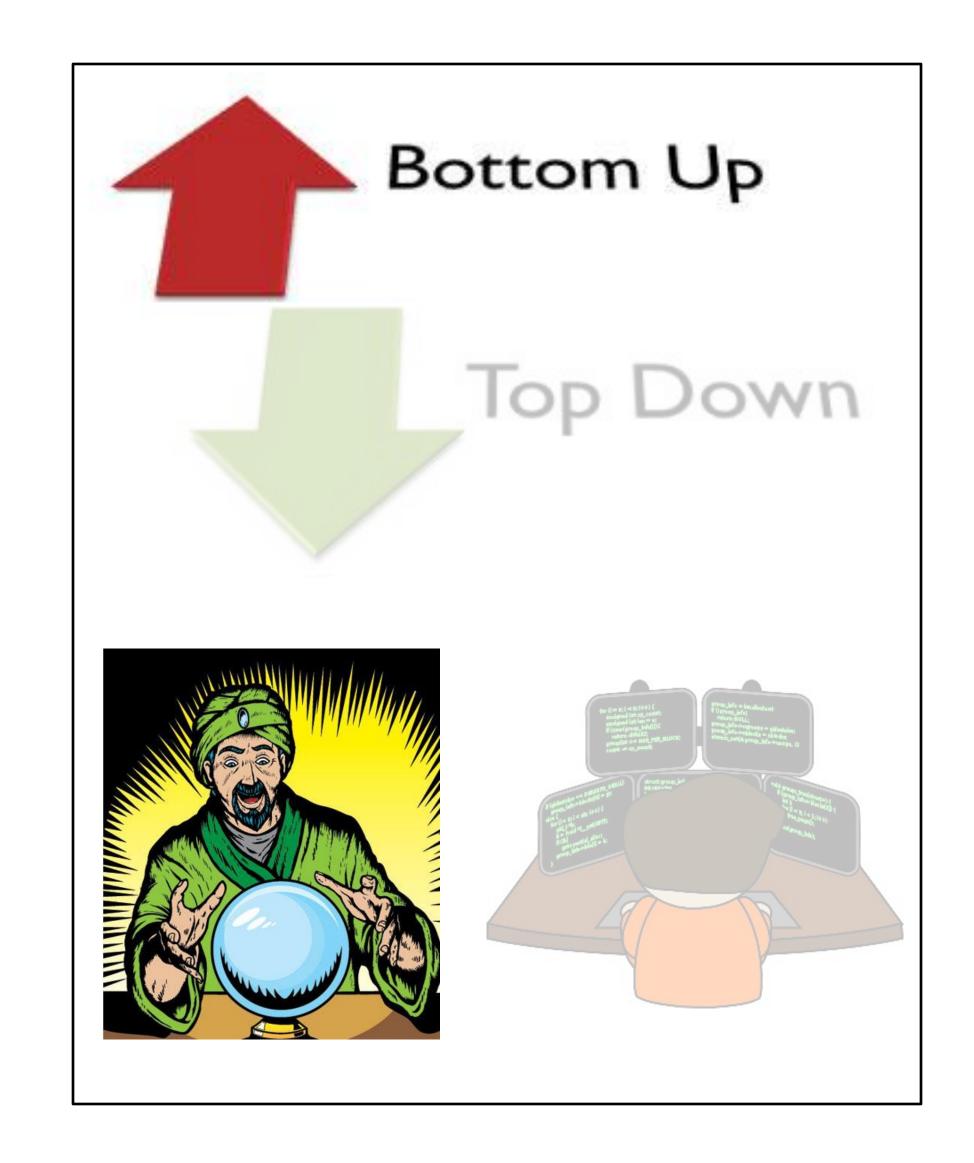
Foundation #3
Bottom Up
vs
Top Down



Foundation #3
Bottom Up
vs
Top Down



Foundation #3
Bottom Up
vs
Top Down



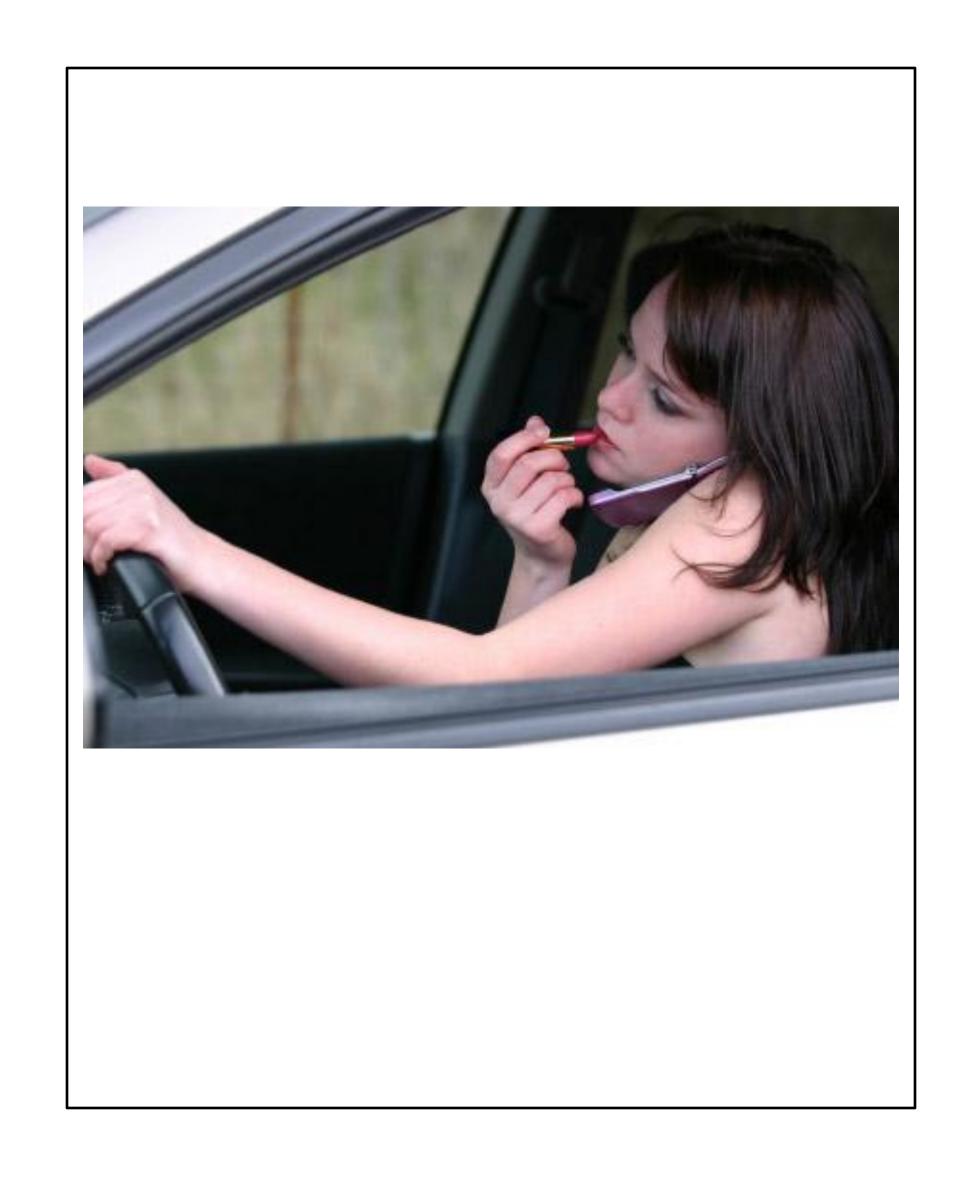
Top Down



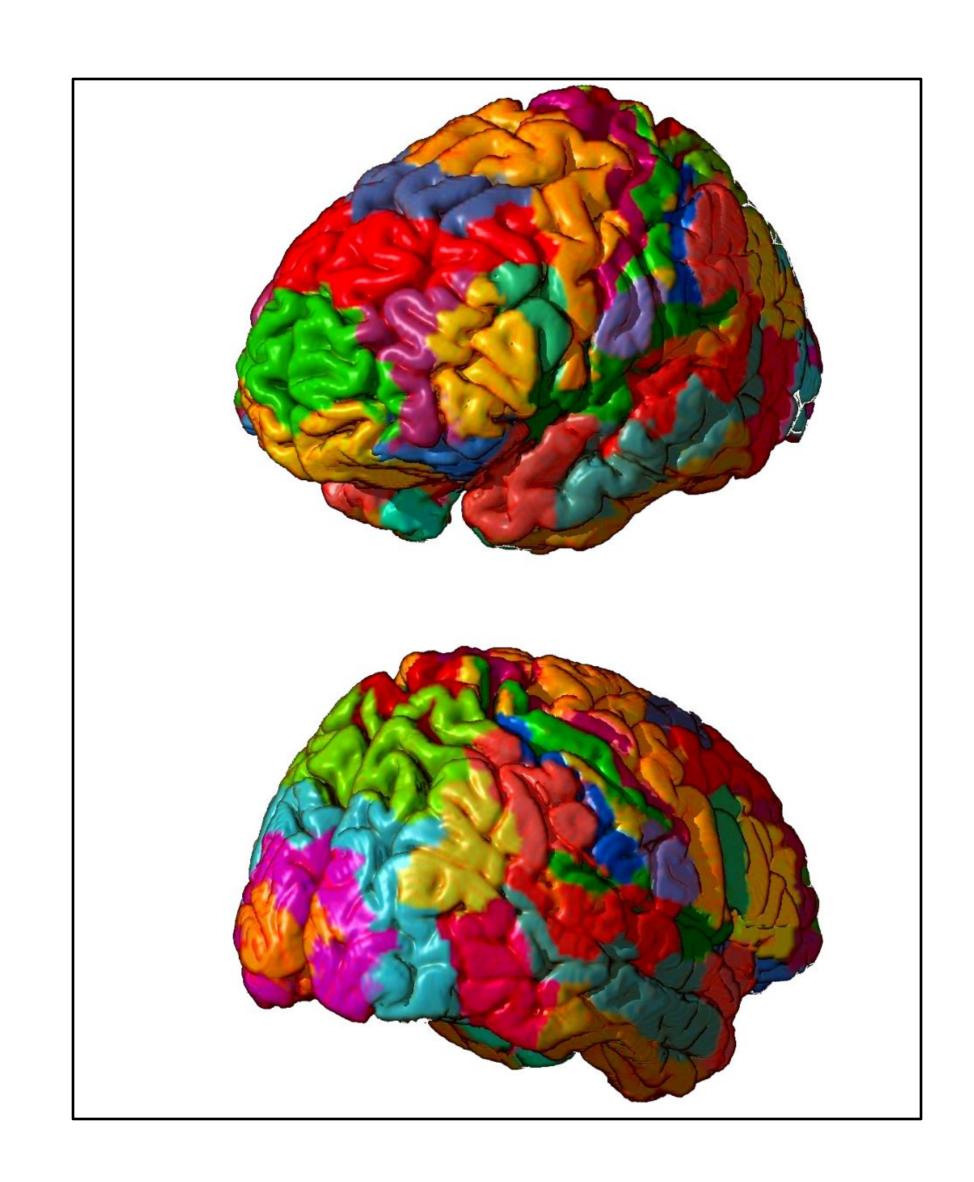


Bottom-Up

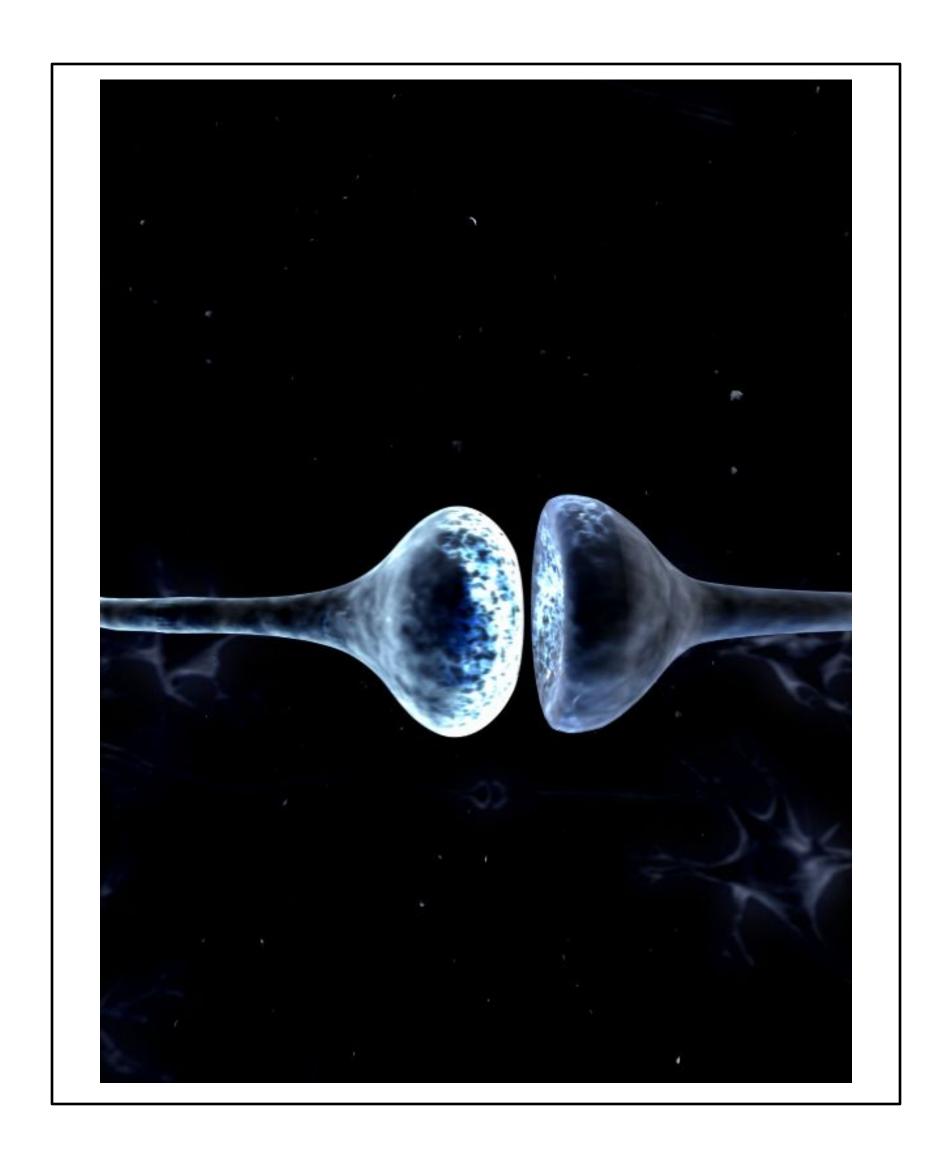




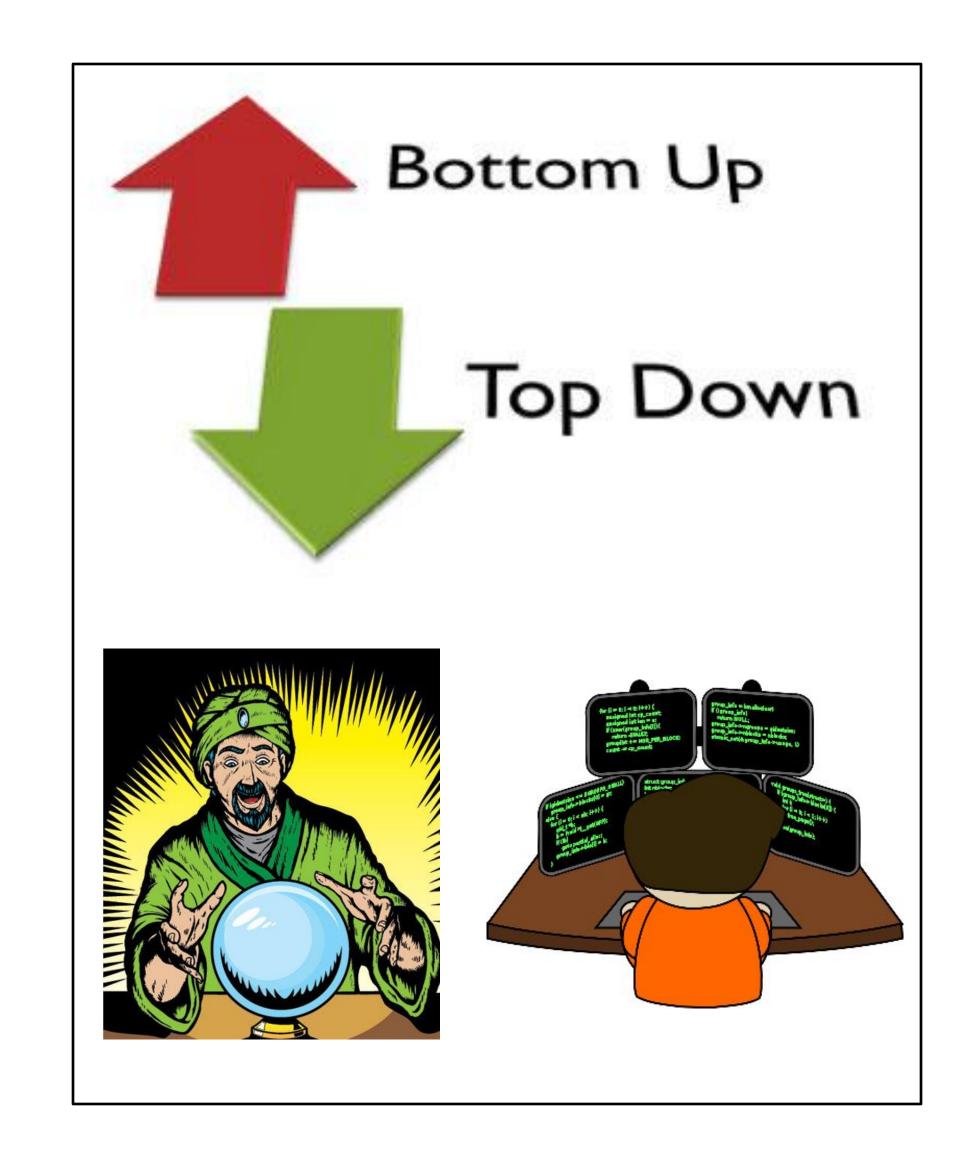
Foundation #1 Modularity



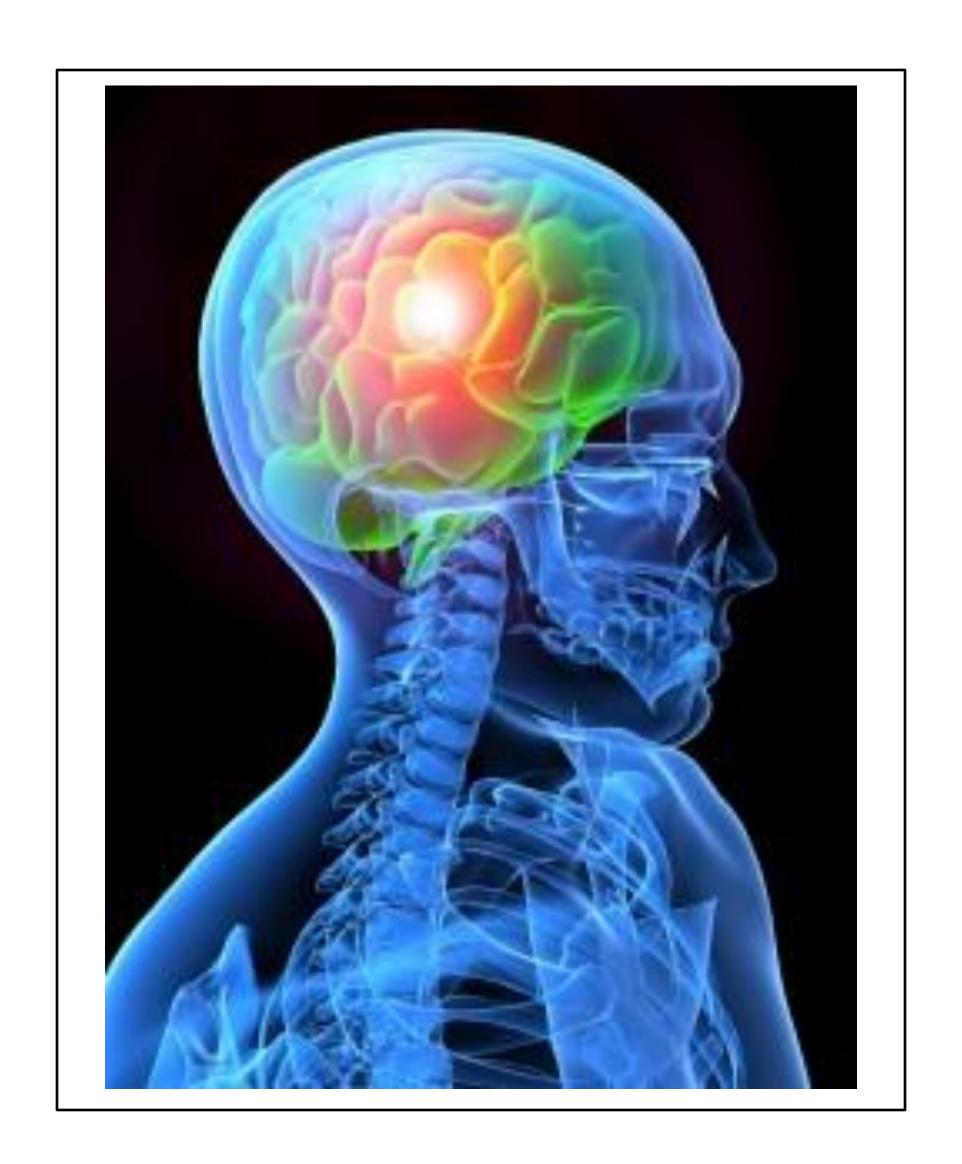
Foundation #2 Synaptic Plasticity



Foundation #3 Bottom Up / Top Down



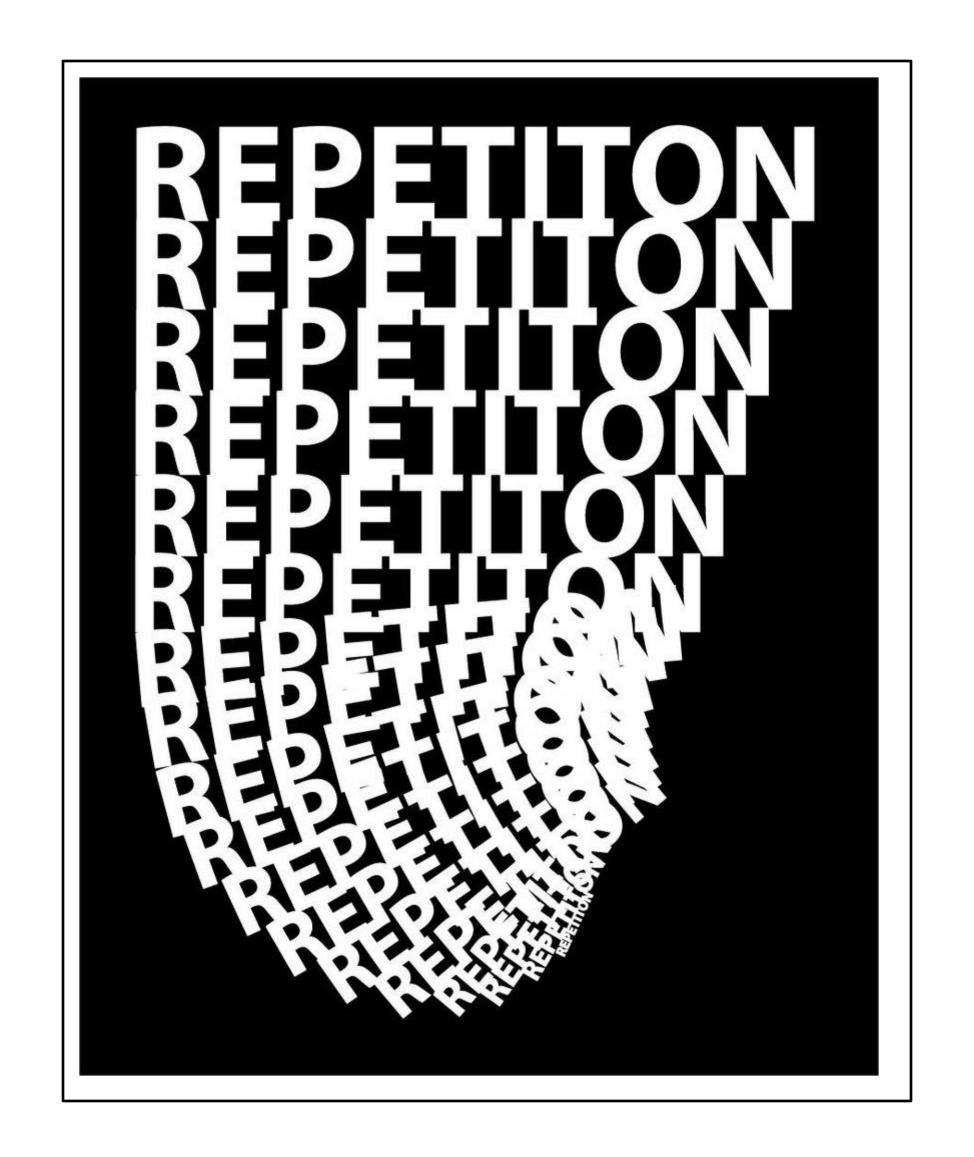
Basic Learning



Basic Learning

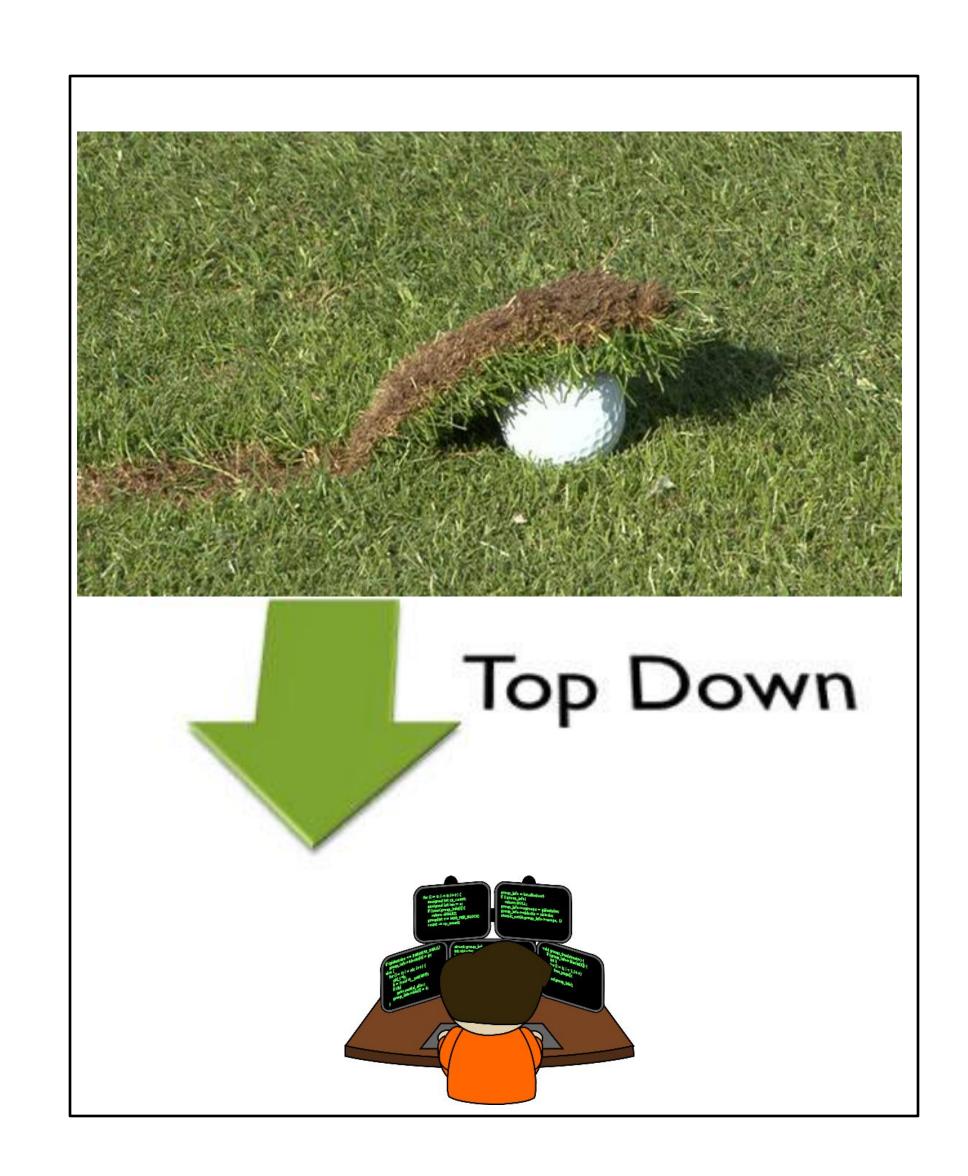
REPETITION

(and frequency...)

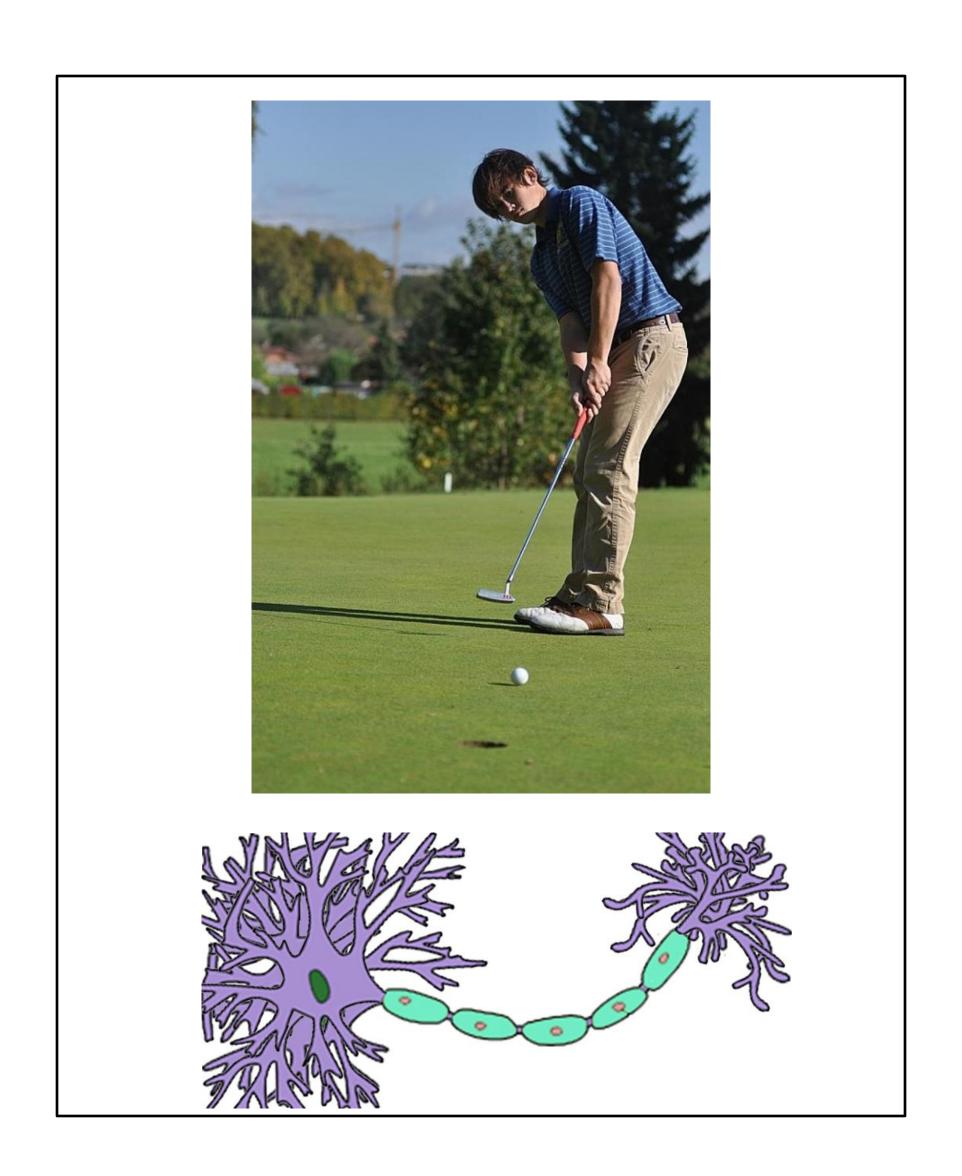


Repetition

Beginner



Repetition
Competent



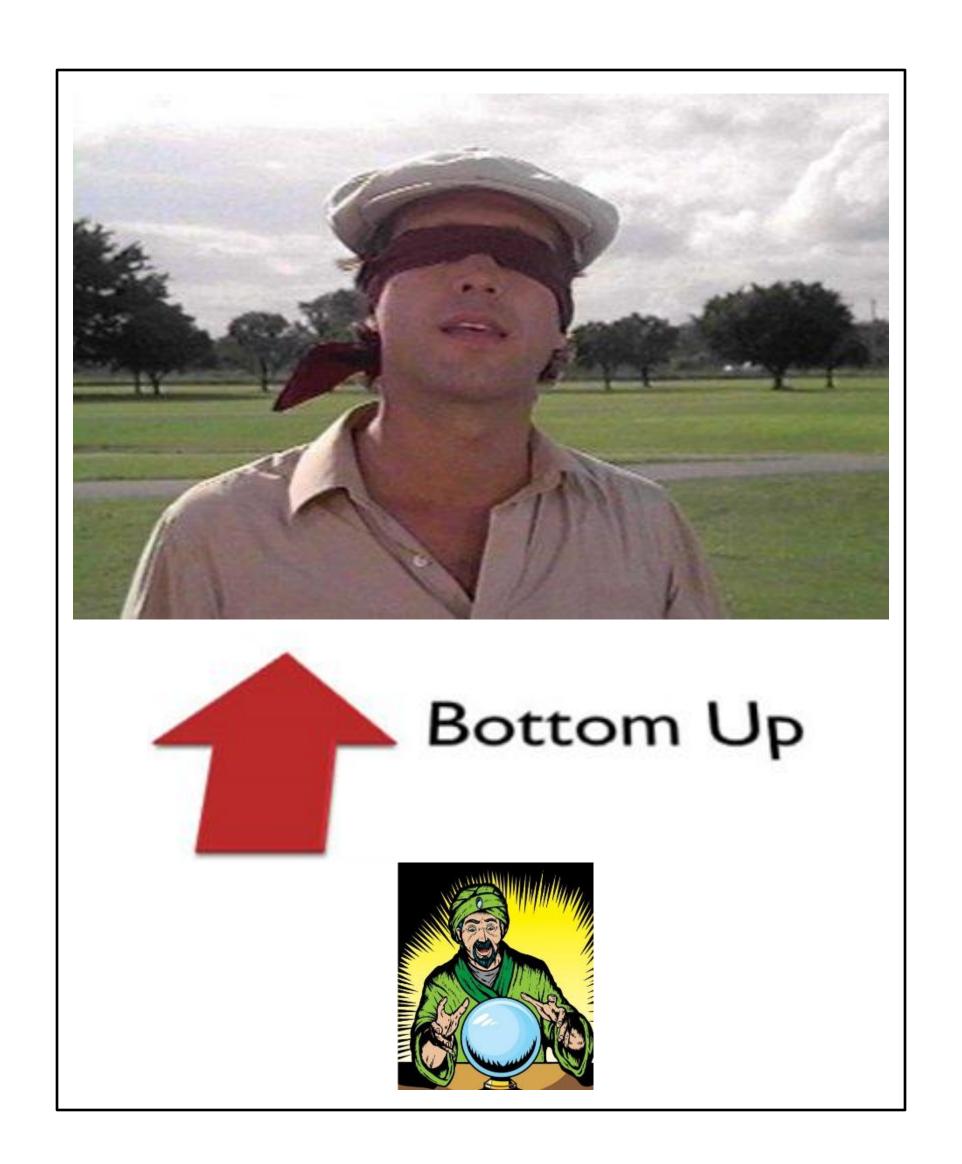
Repetition

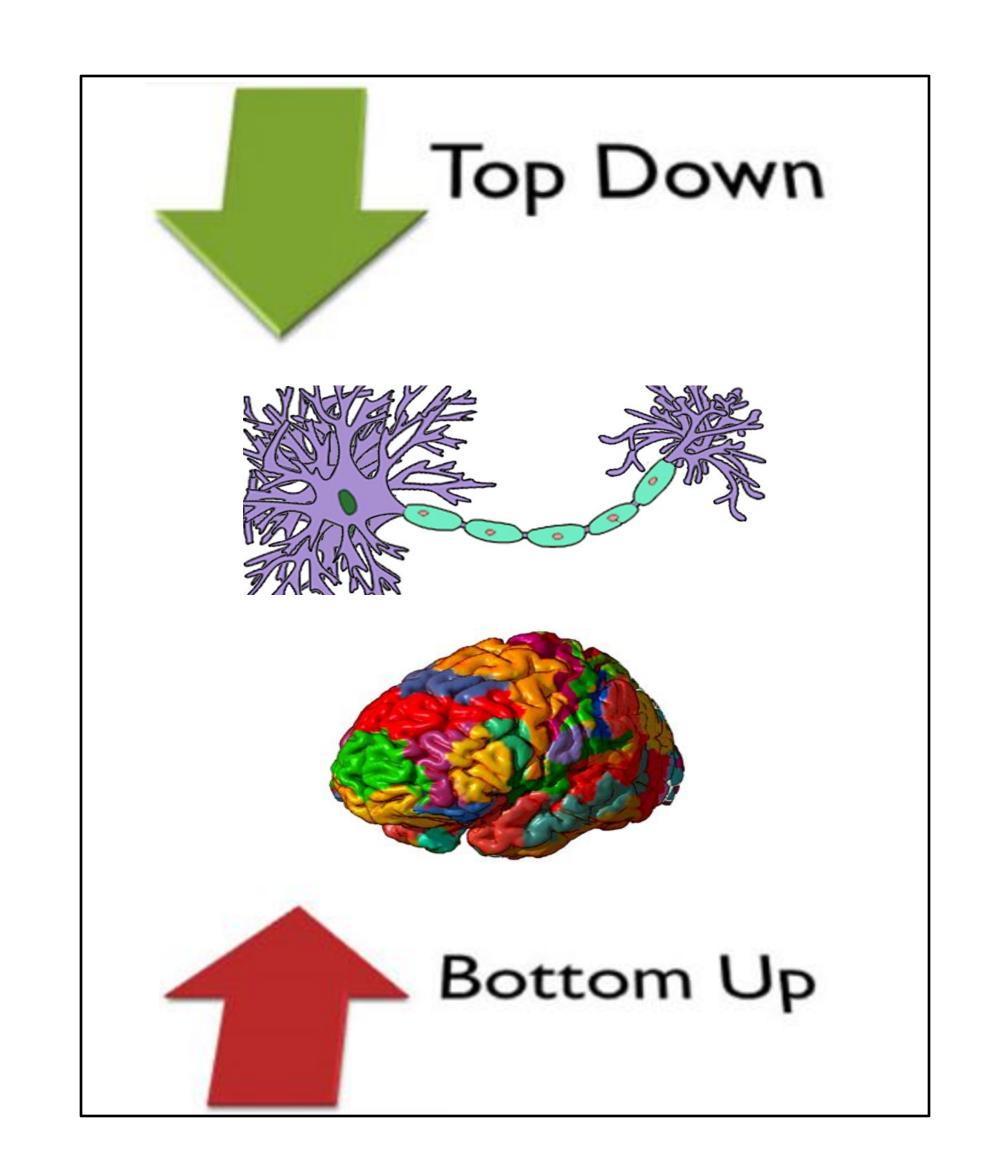
Expert



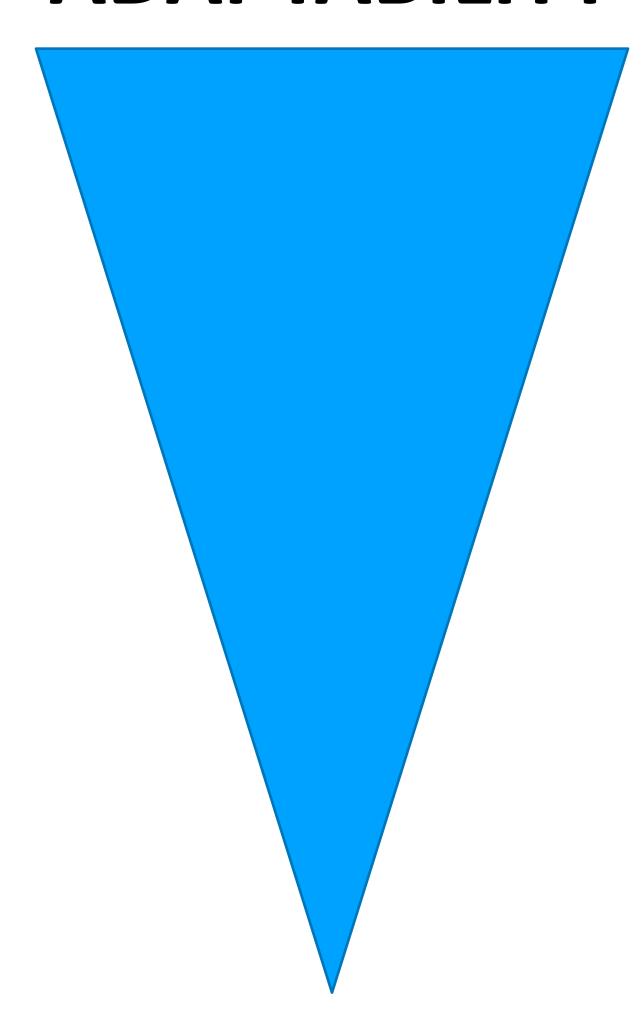
Repetition

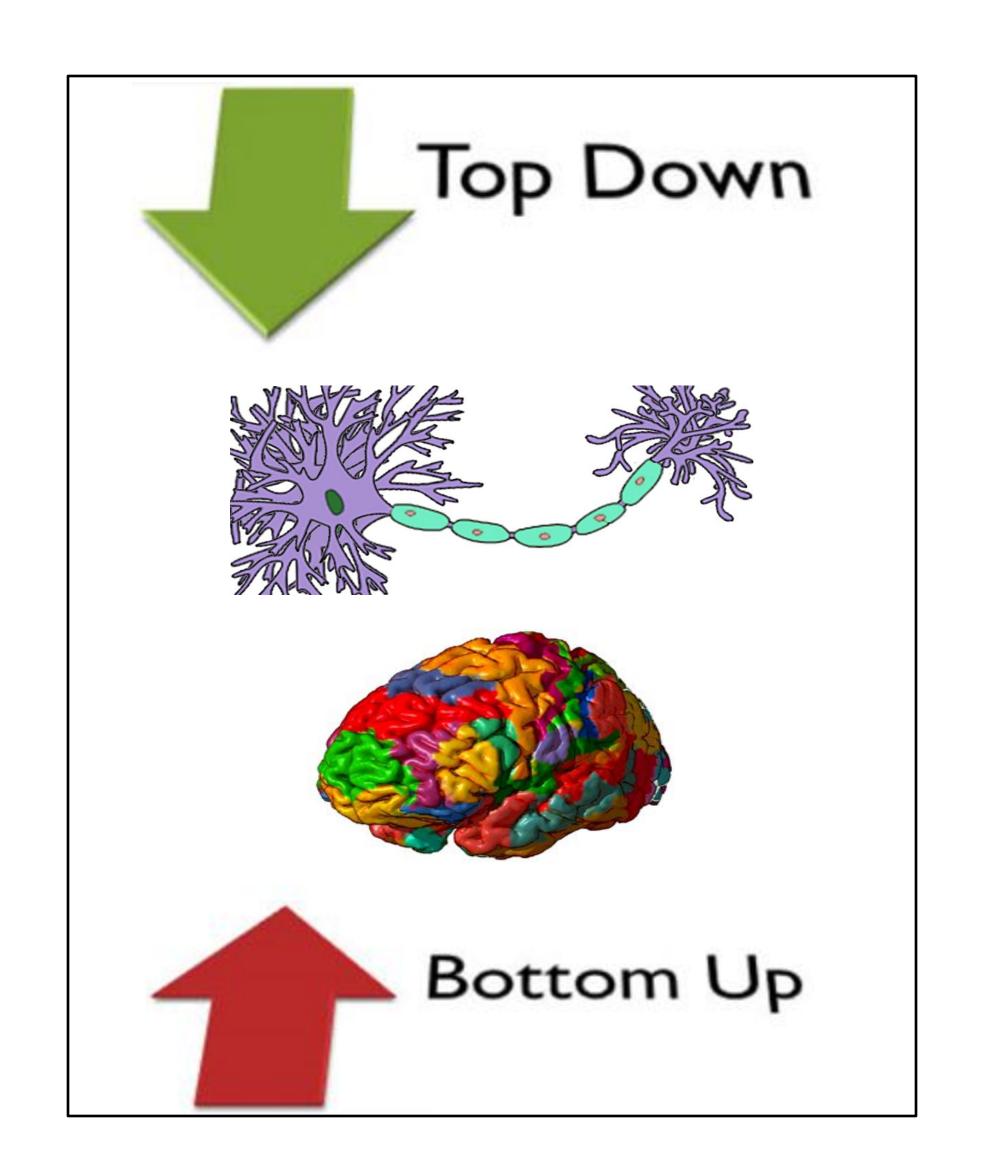
Master



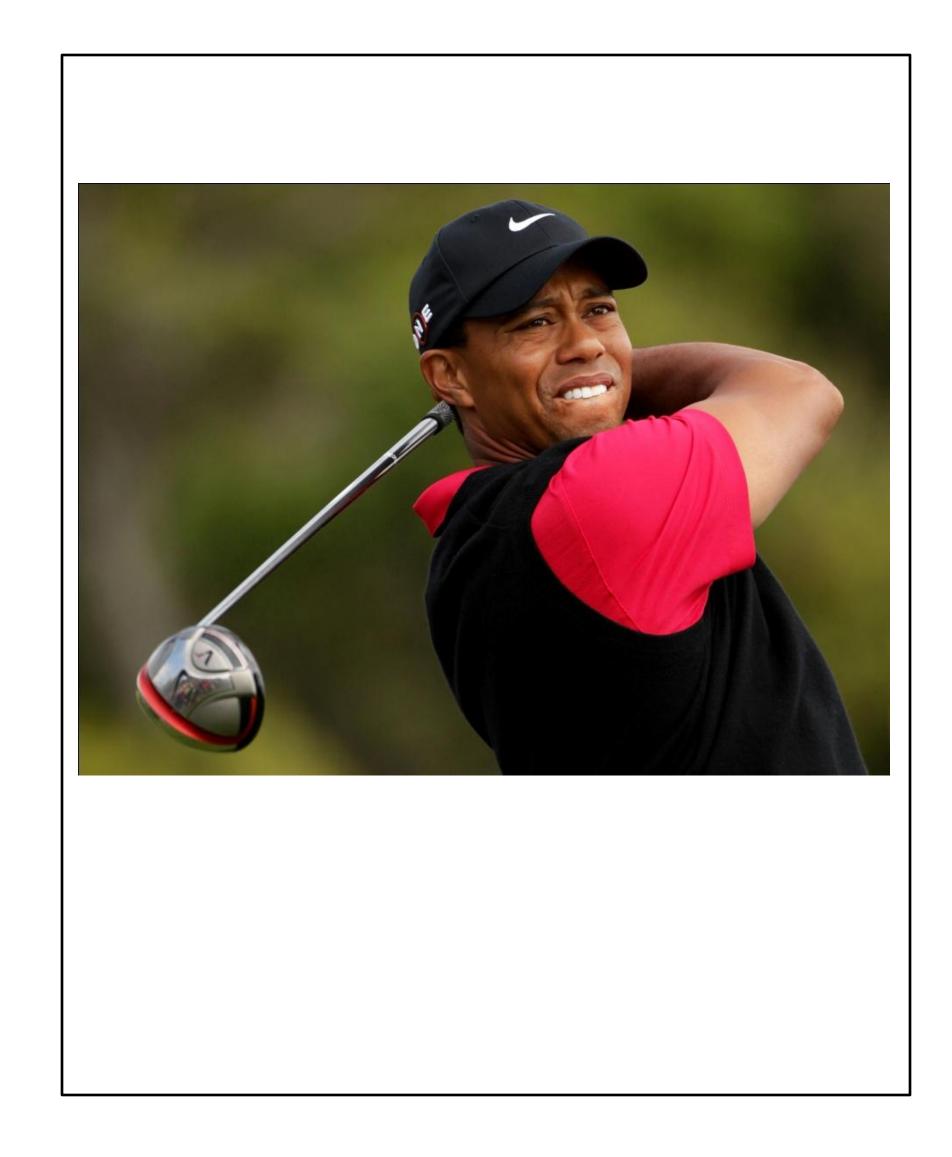


ADAPTABILITY

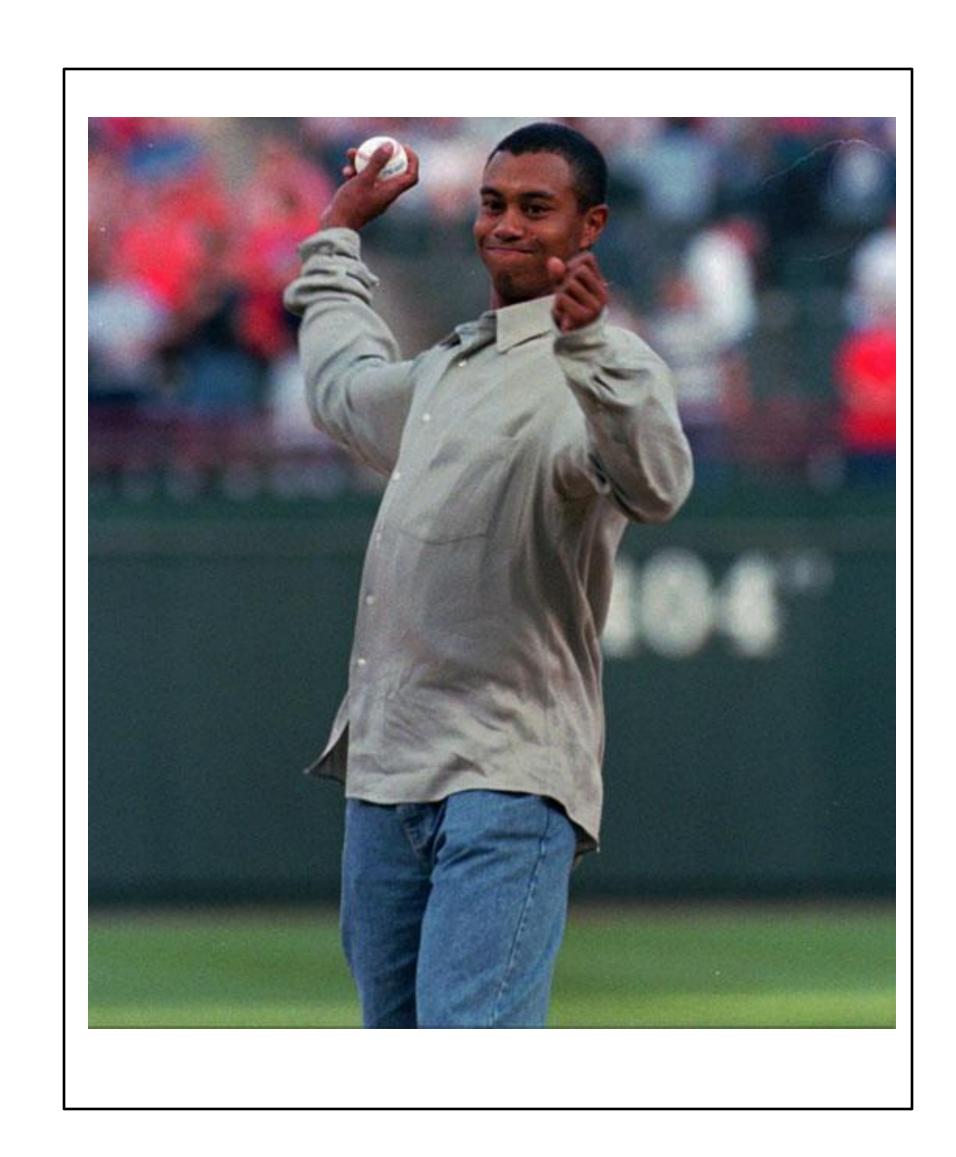




Bottom Up



Bottom Up



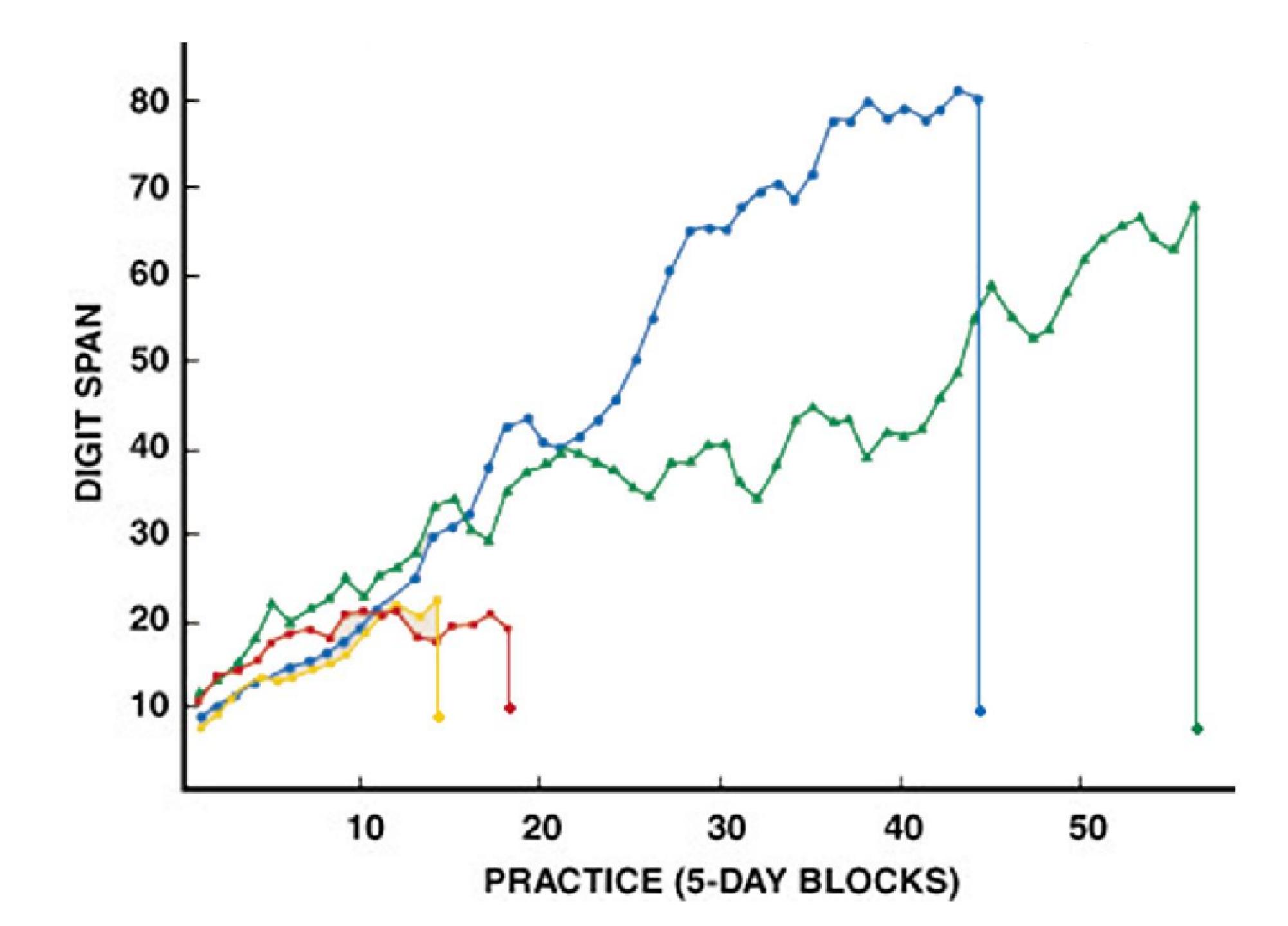
Transfer Lessons

- 1) Skill transfer requires new domain knowledge.
- 2) Domain knowledge is used to select (and can confuse) the skill.
- 3) Adaptability narrows with automaticity.



Brain Training



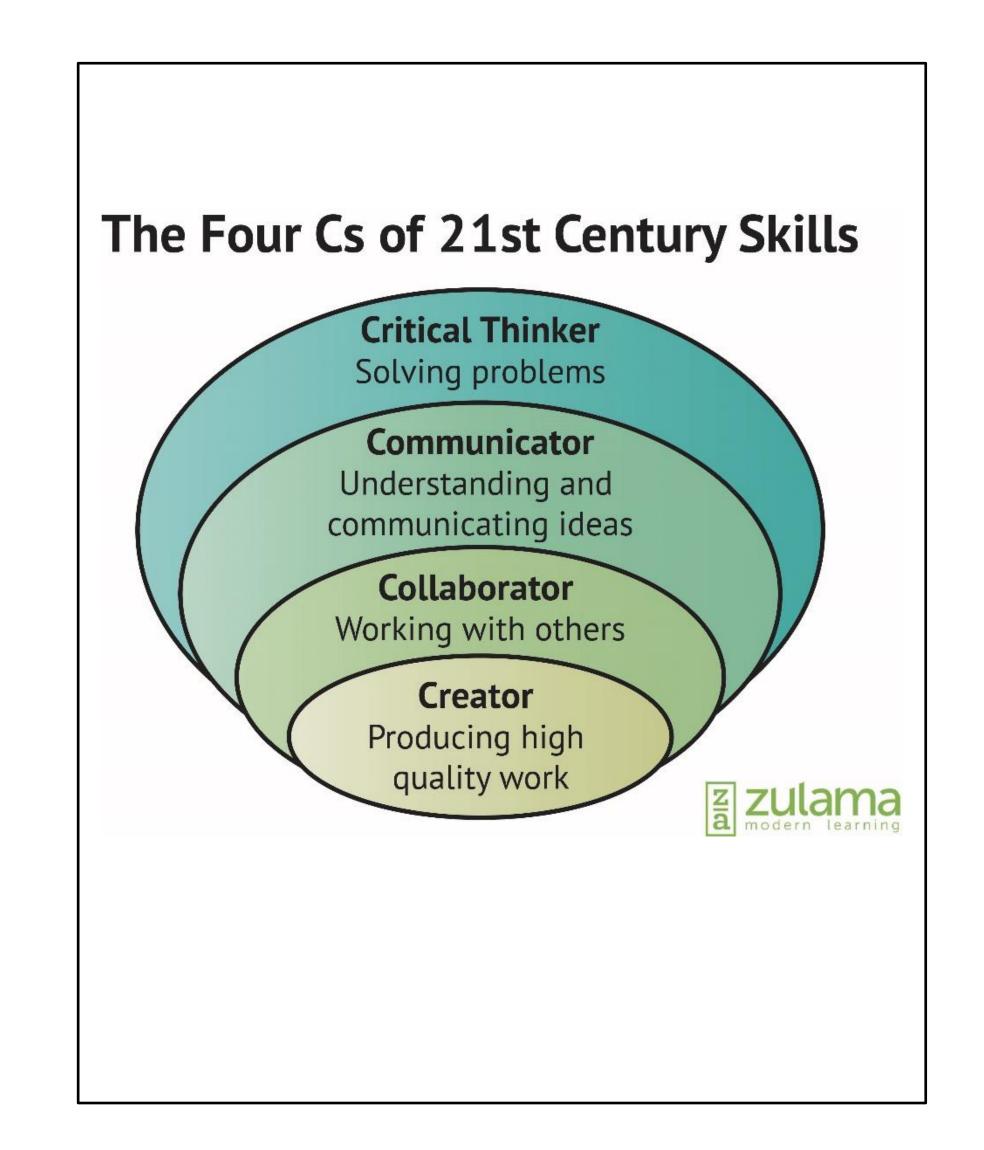


21C Skills

Knowledge

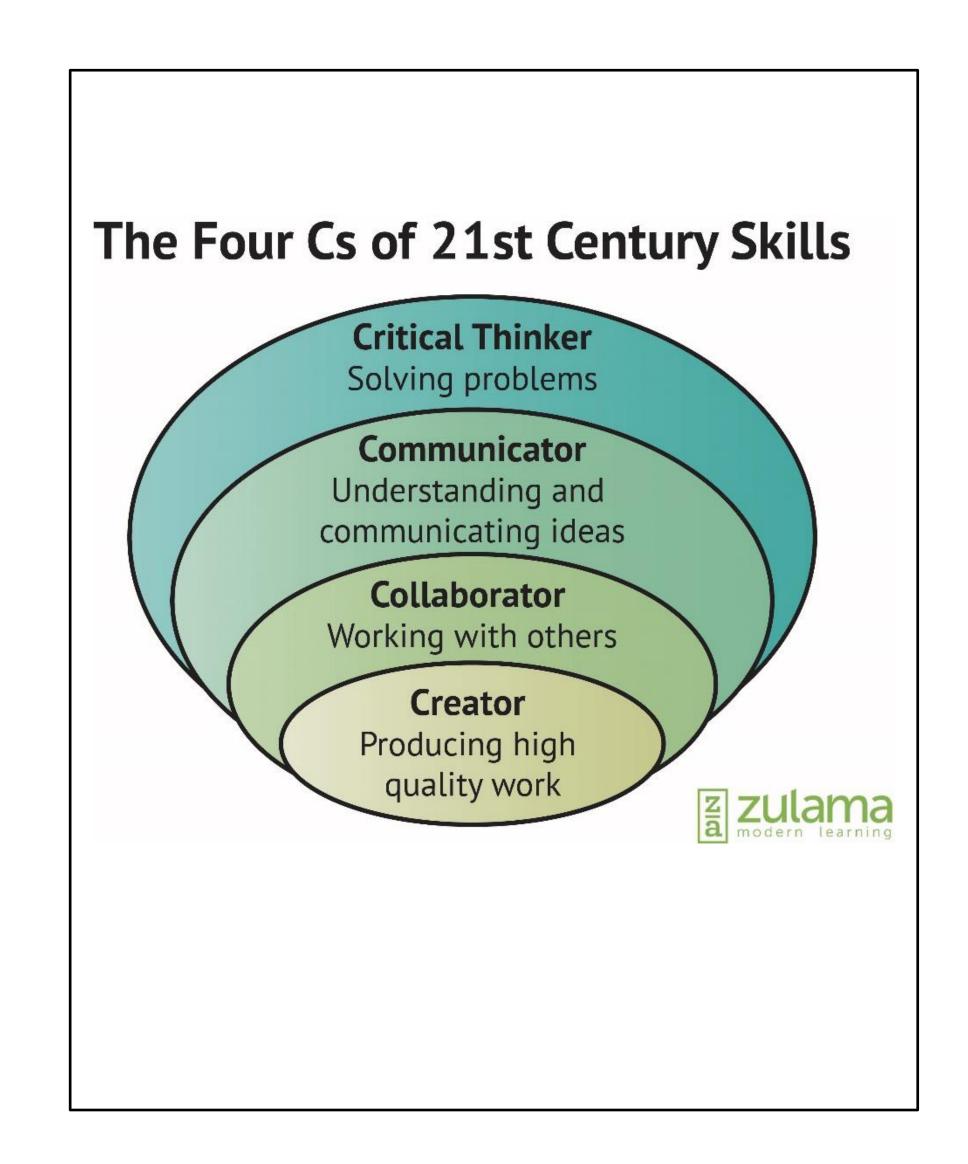
Contextualization

Adaptability



21C Skills

Learning



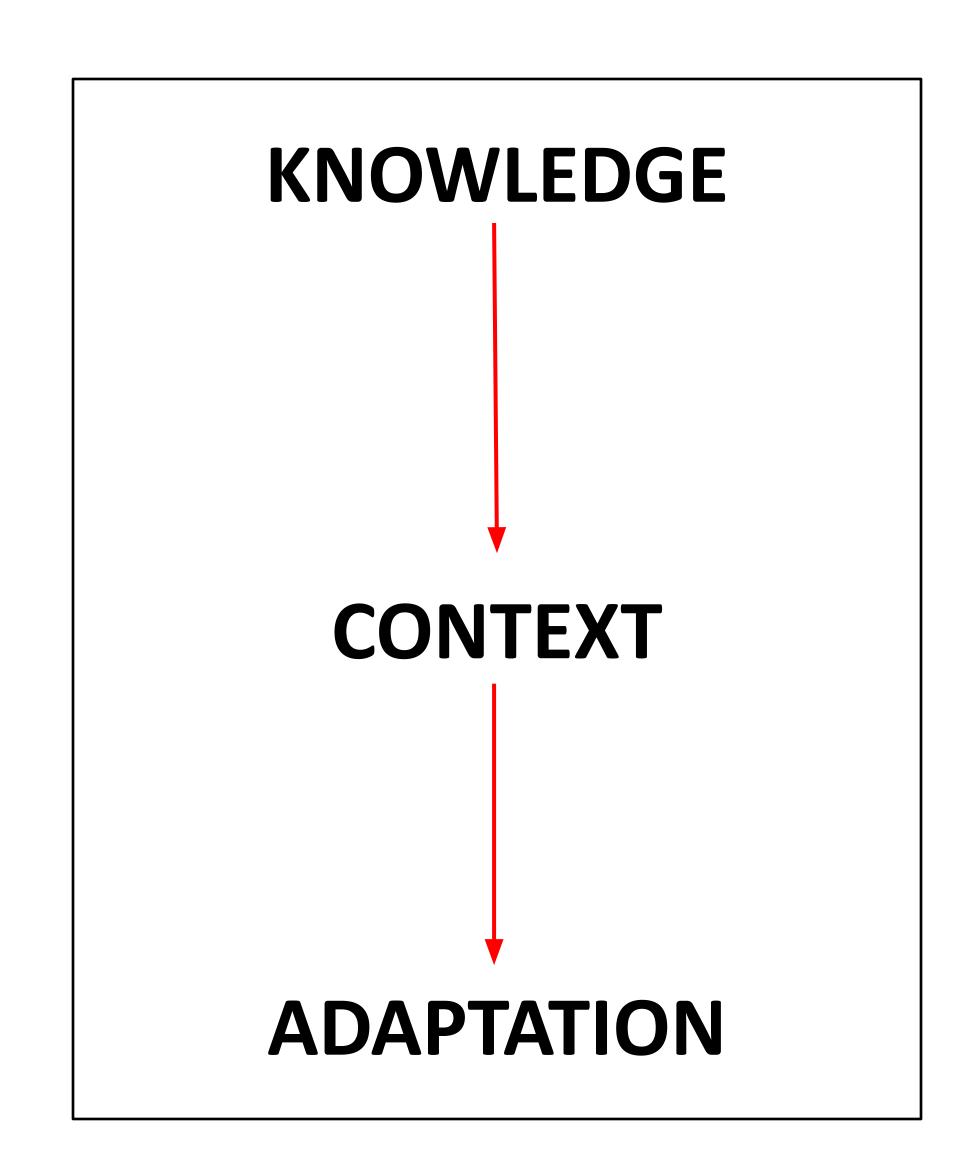
The Only Future-Proof Skill

Learning

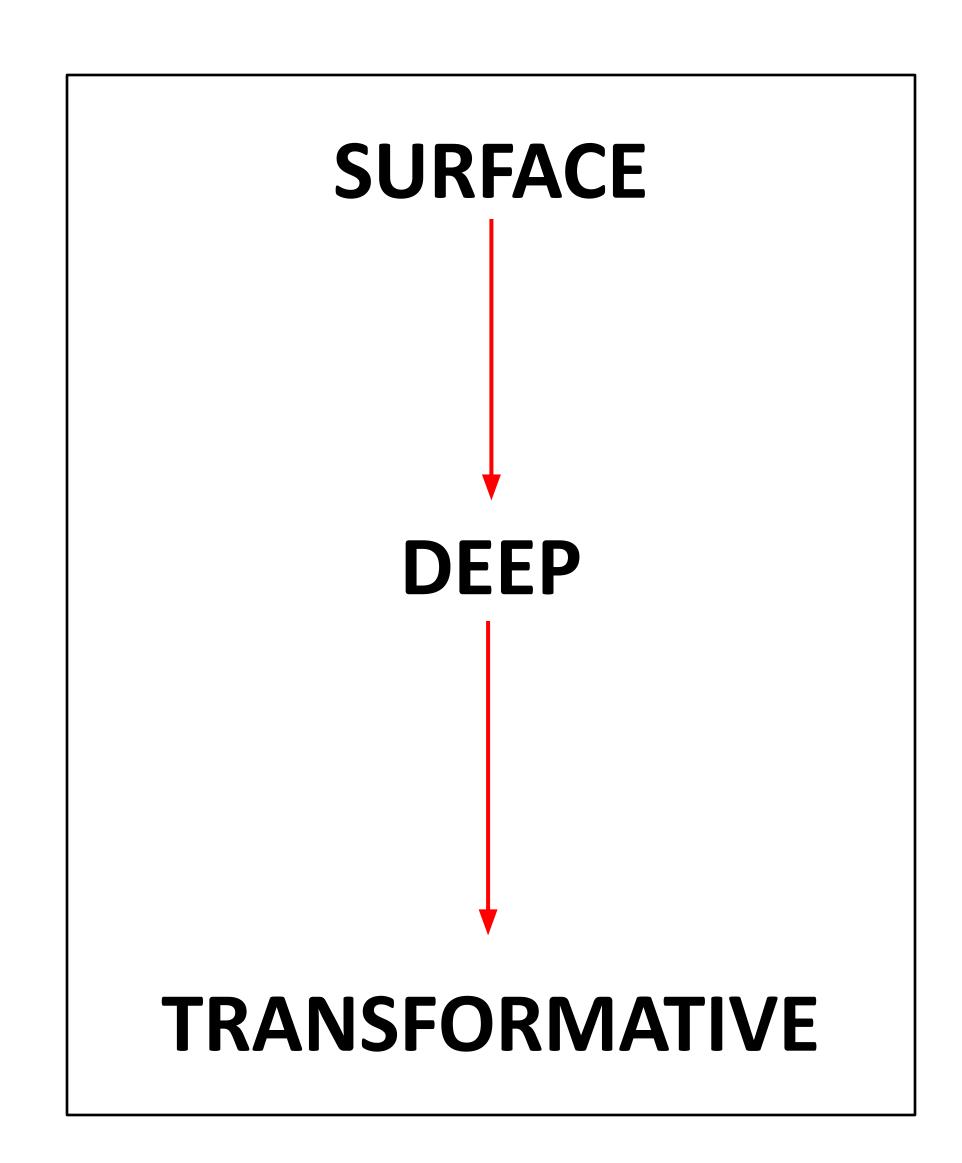
NOT STUDY SKILLS



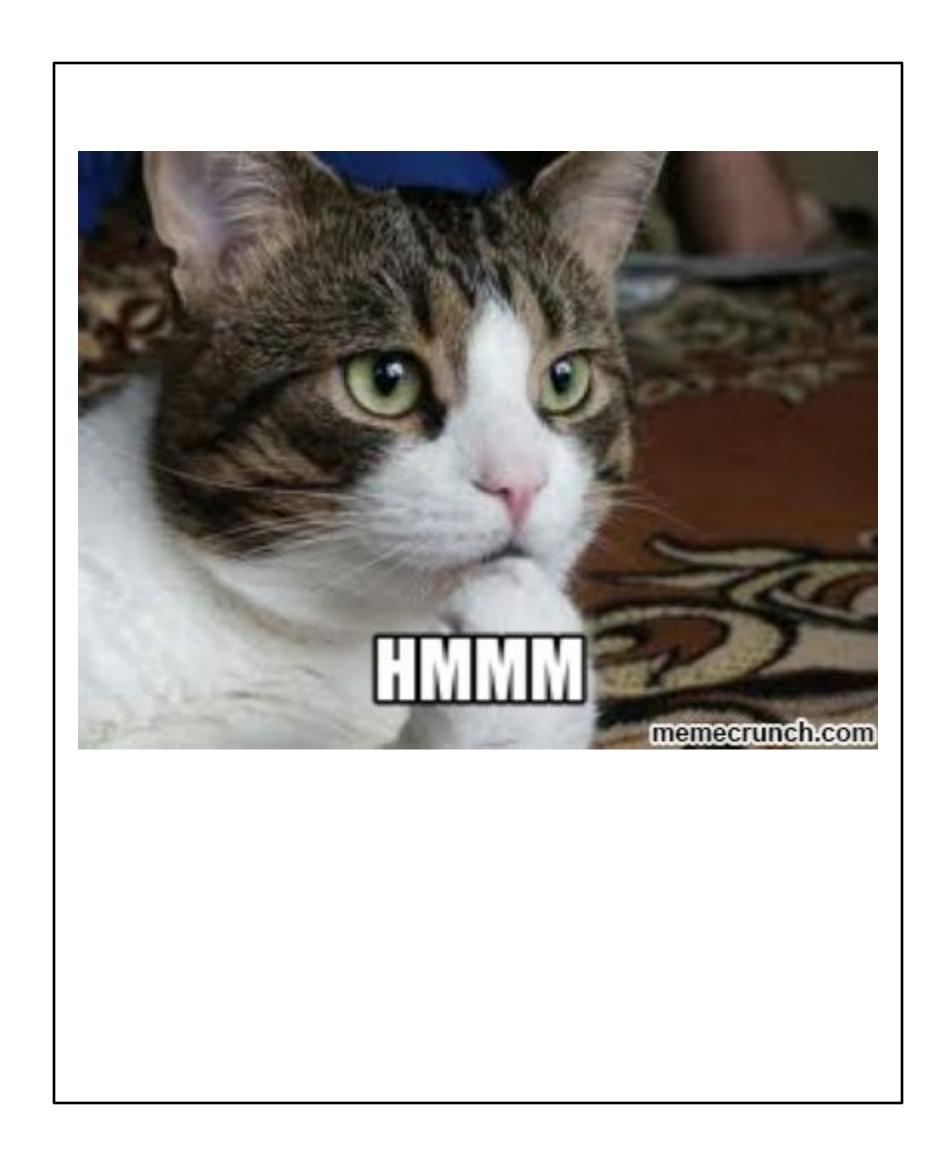
The Transfer Process



The Learning Trajectory



But Wait...



Near vs Far



Near Transfer



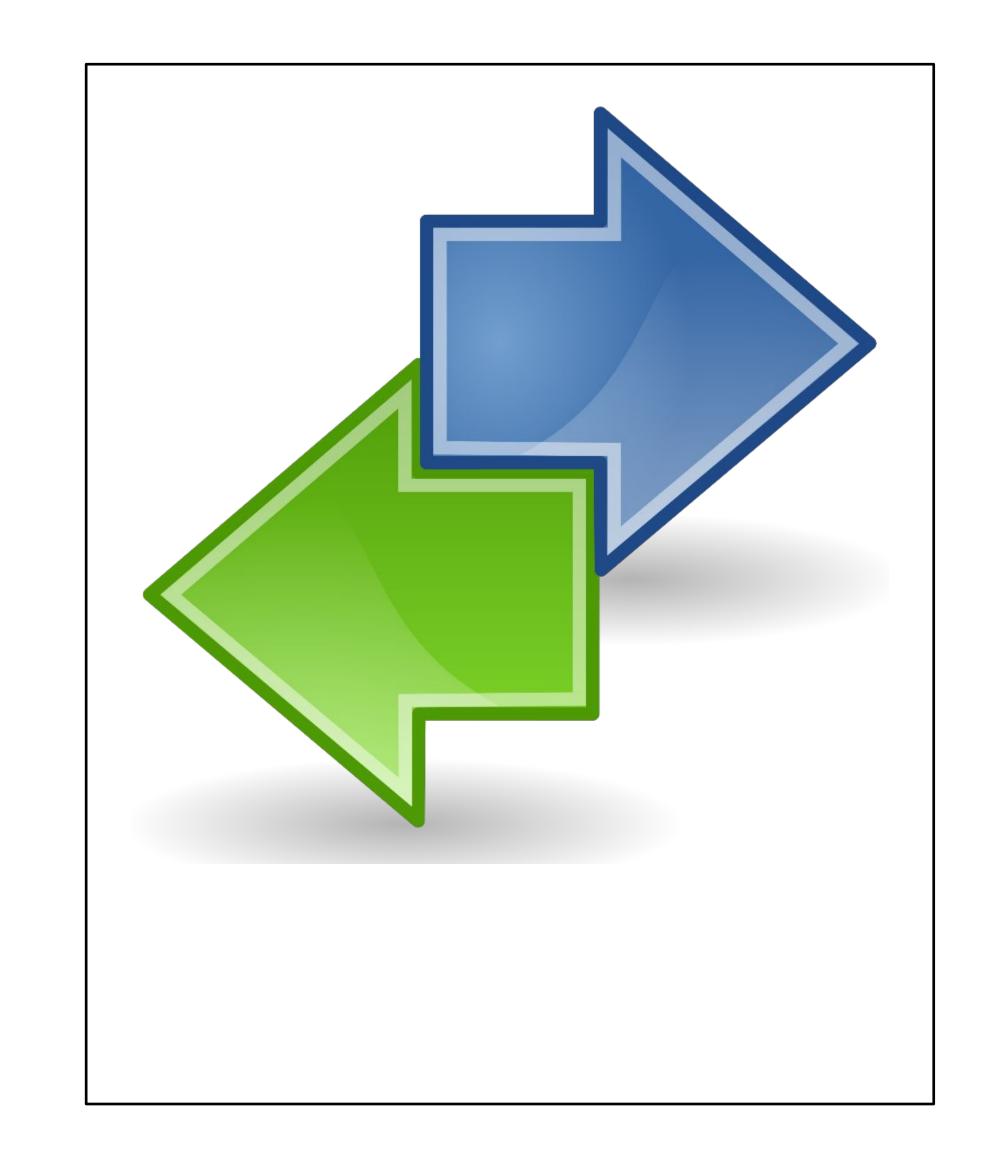
Far Transfer





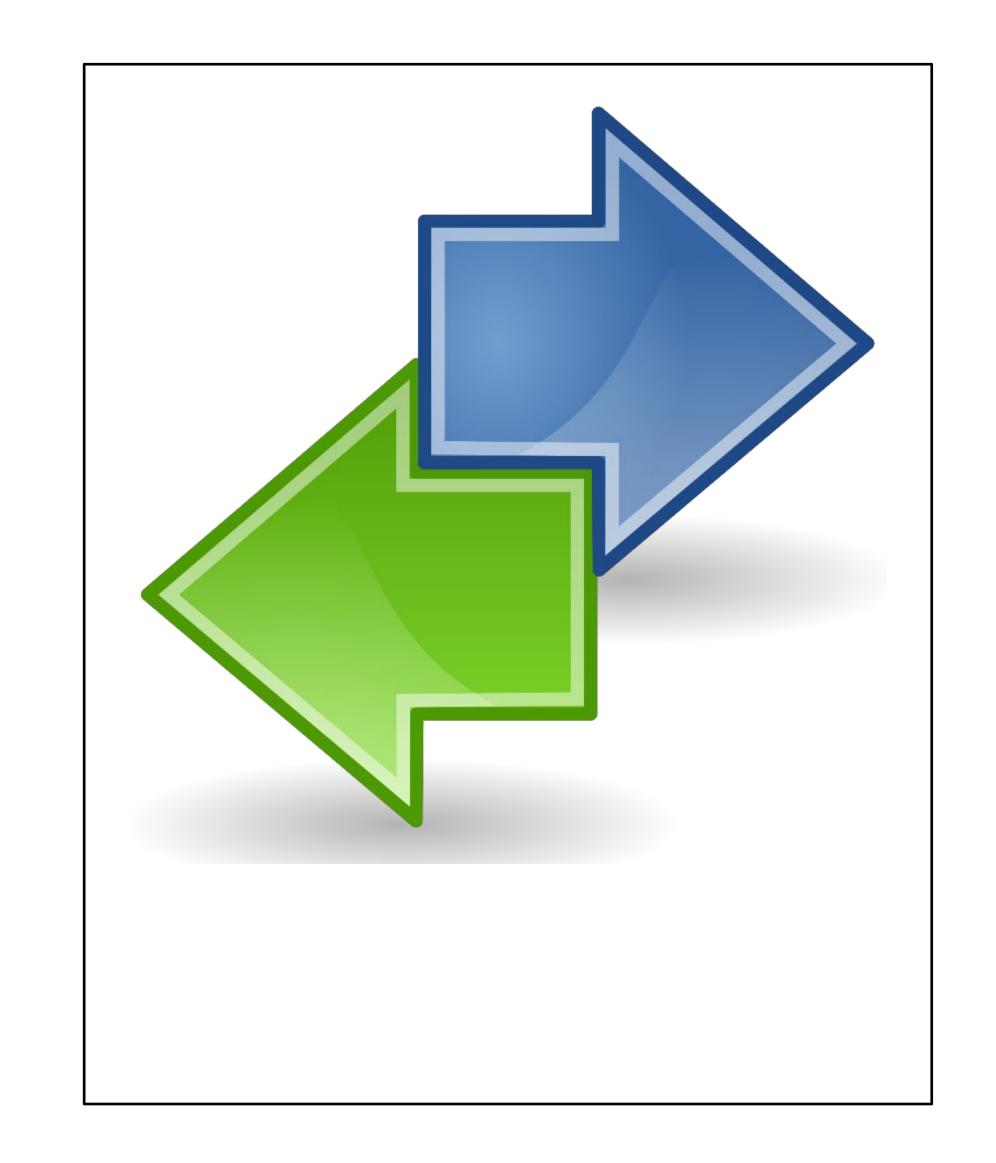
Knowledge

Contextualization



Knowledge

Contextualization



Knowledge

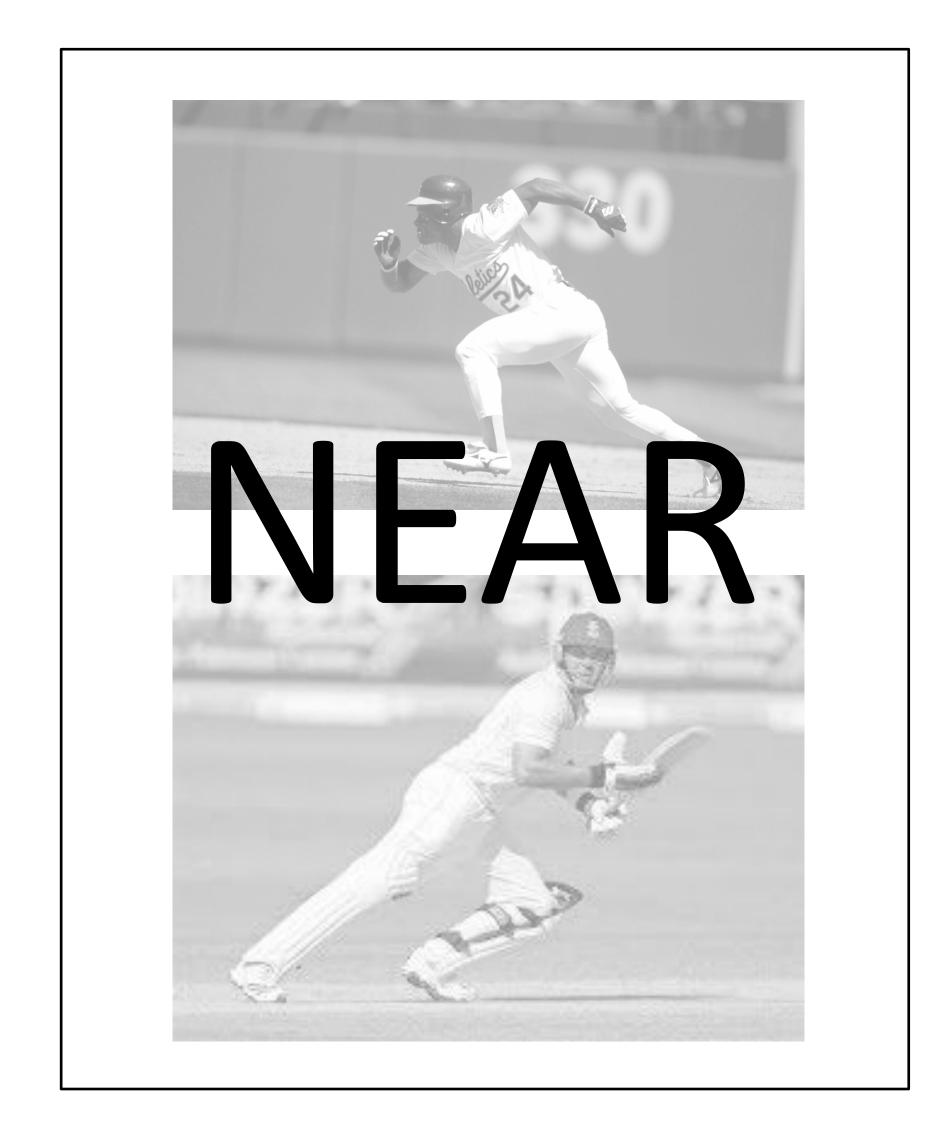
Contextualization





Knowledge

Contextualization



Knowledge

Contextualization

Adaptation

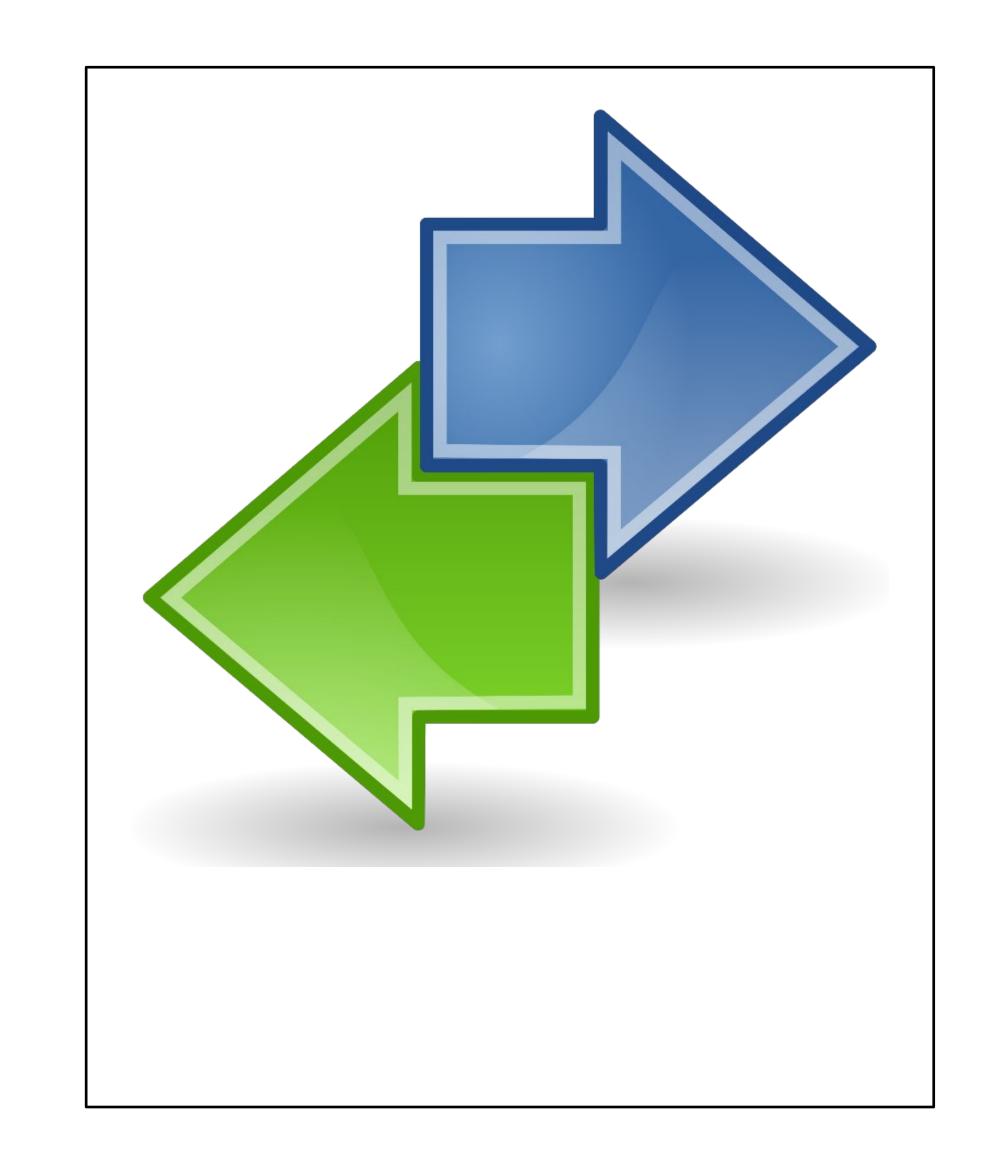
$$6 - 3 = ?$$

Lucy has 3 fewer apples than Julie.

If Julie has 6 apples, how many does Lucy have?

Knowledge

Contextualization



Knowledge

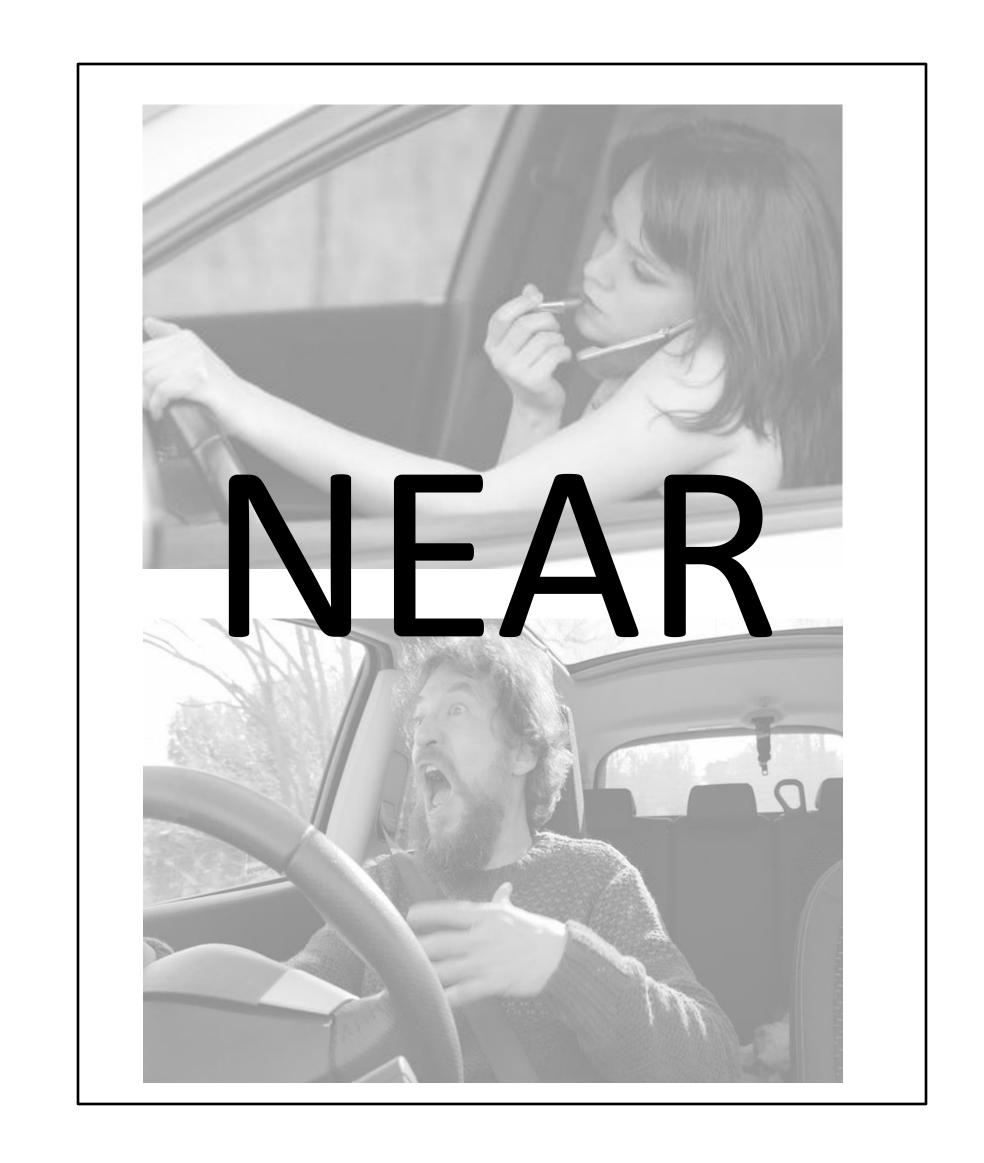
Contextualization





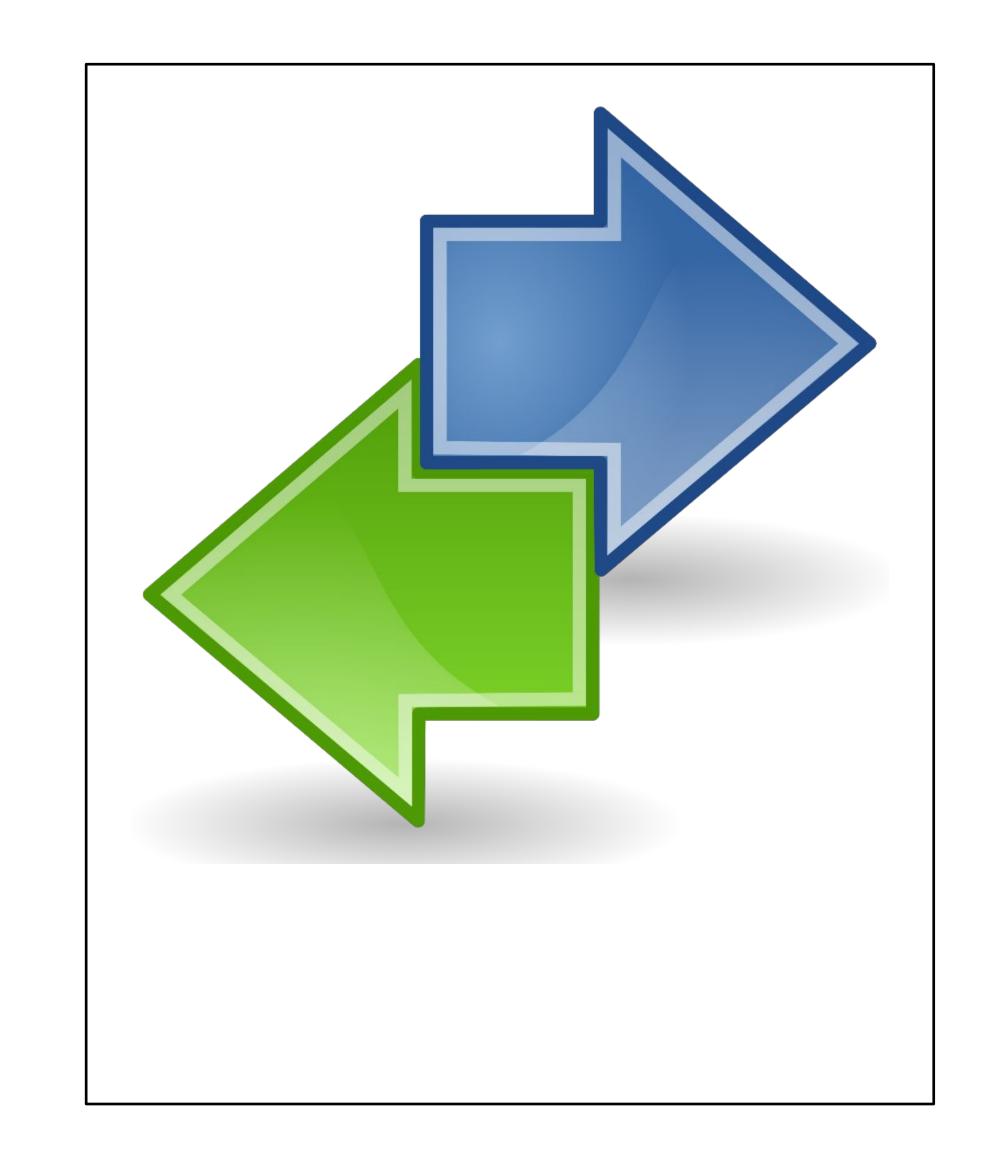
Knowledge

Contextualization



Knowledge

Contextualization



Knowledge

Contextualization





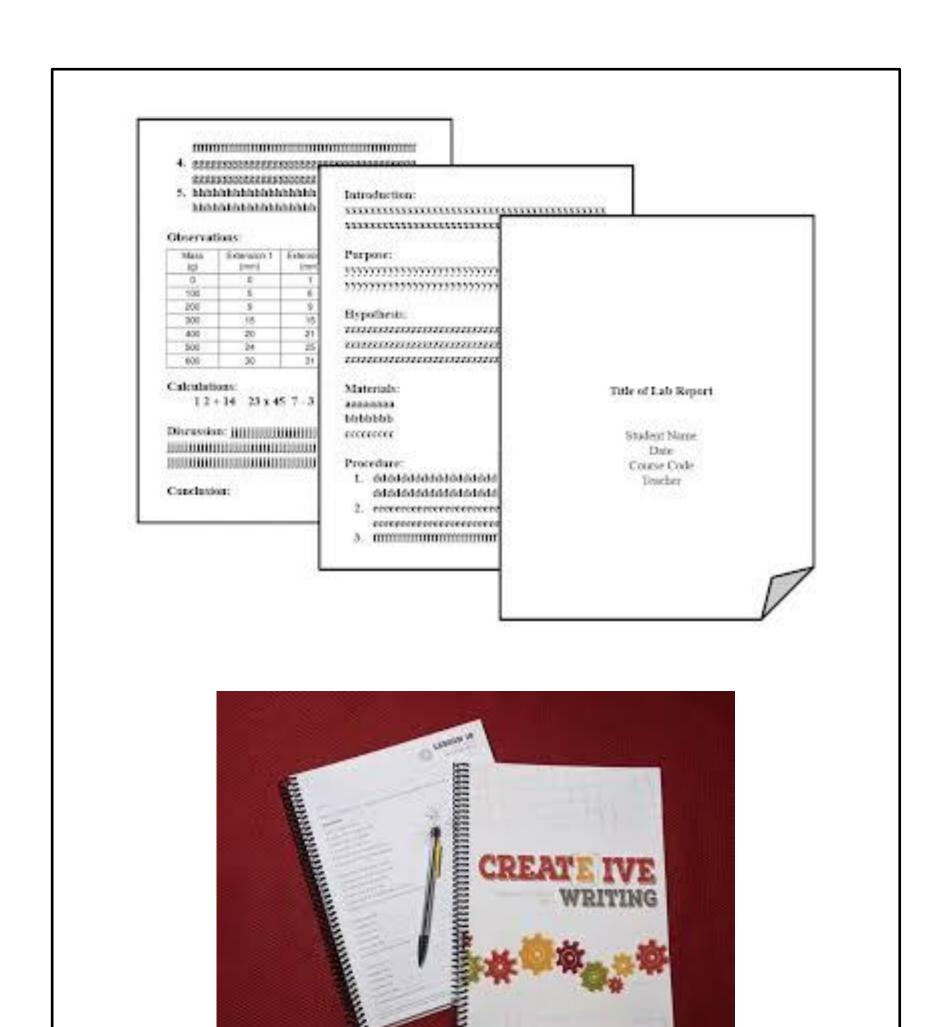
Knowledge

Contextualization



Knowledge

Contextualization



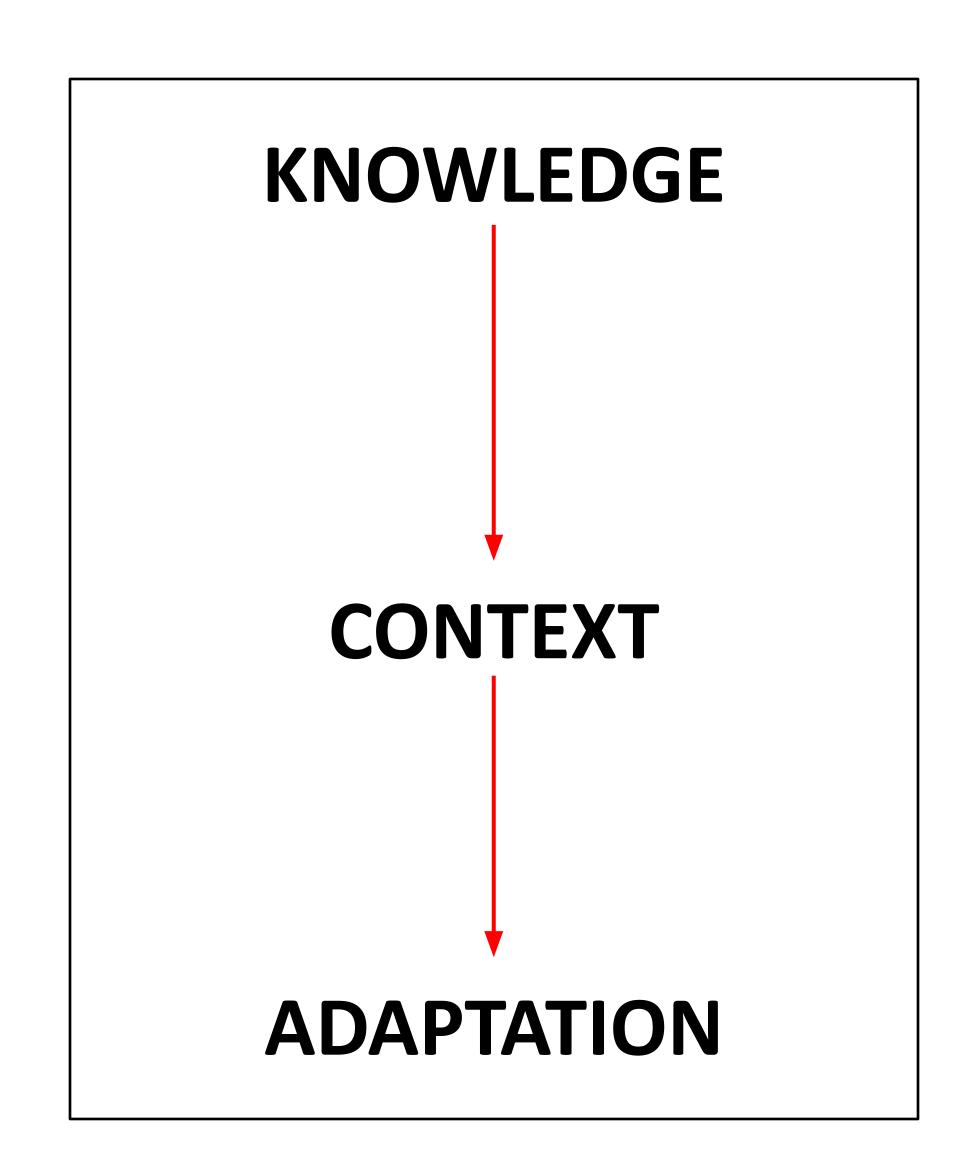
Competencies



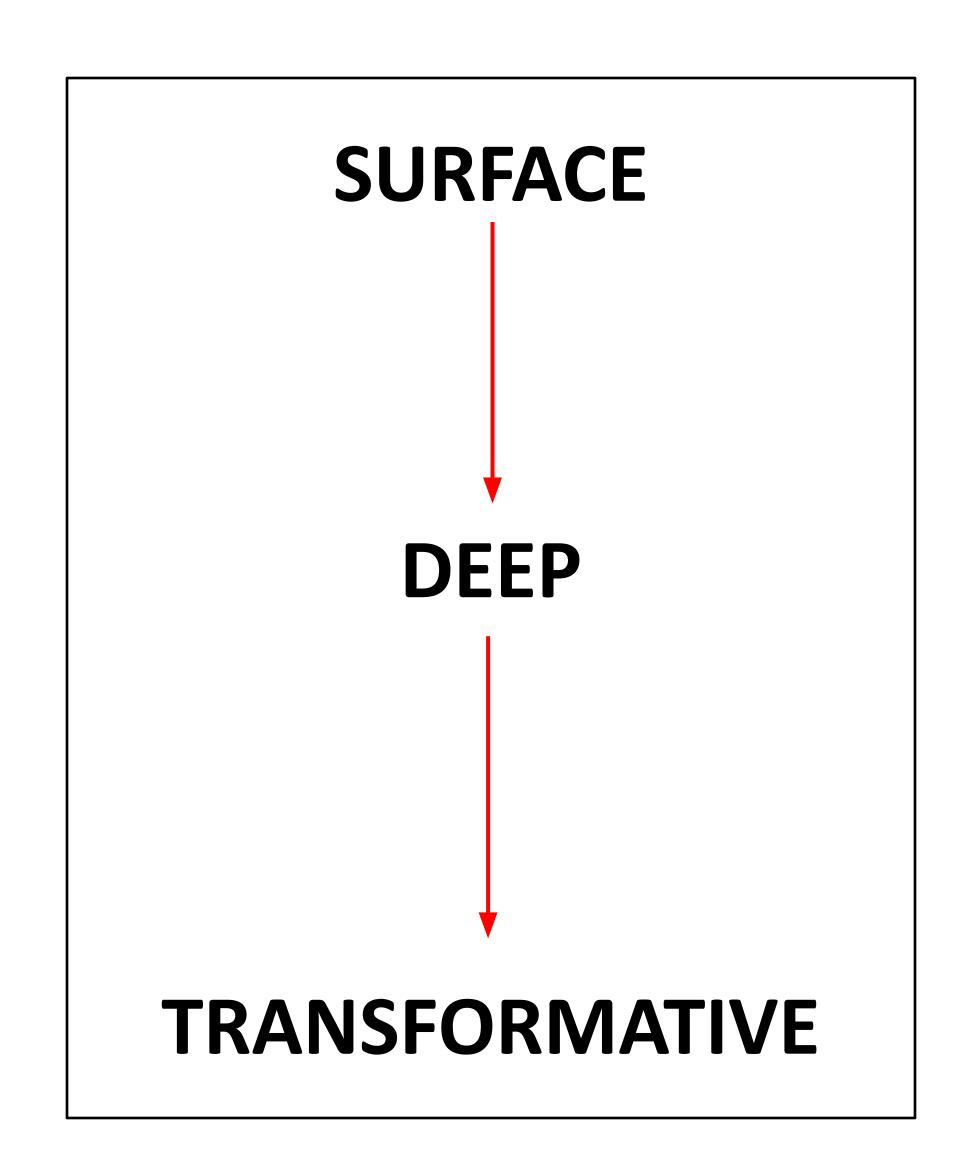
Near vs Far



The Transfer Process



The Learning Trajectory



So Now Then

the LEARNING BLUEPRINT

BRING THE SCIENCE OF LEARNING TO YOUR SCHOOL!



FOR TEACHERS PROFESSIONAL DEVELOPMENT PROGRAM



FOR STUDENTS

YR 9+ METACOGNITION PROGRAM



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