

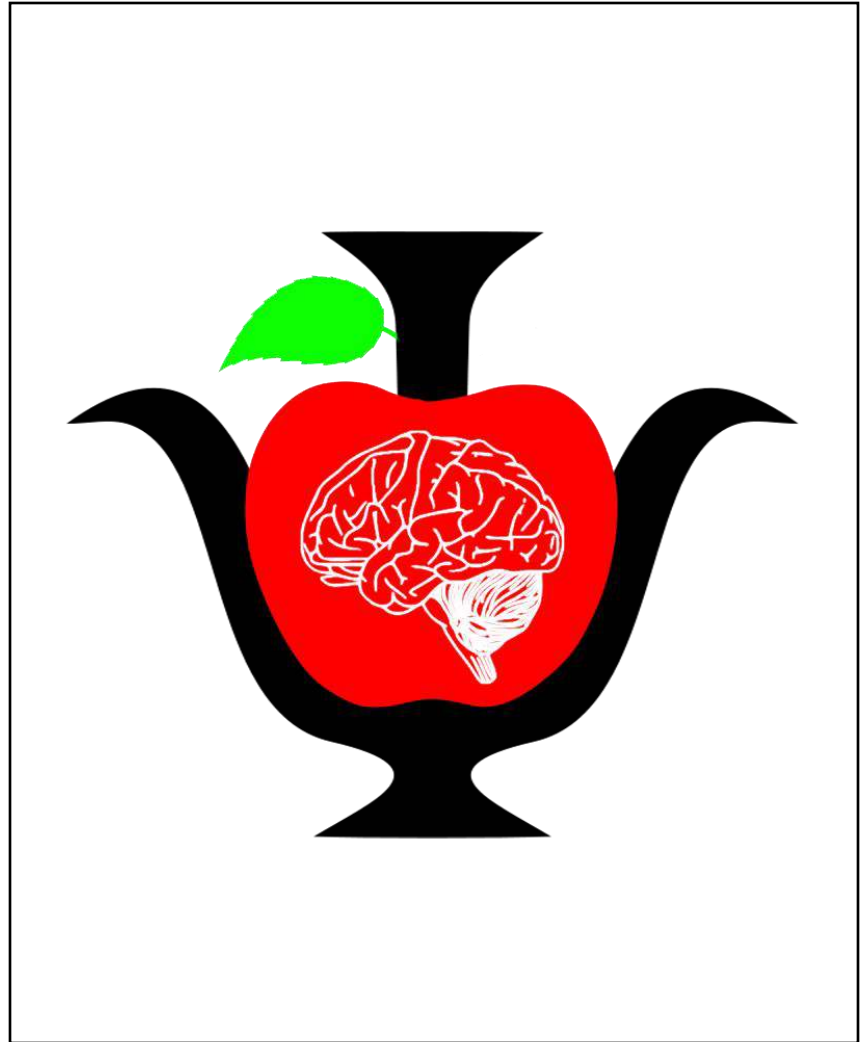
Your Brain, Your Life

Dr. Jared Cooney Horvath

PhD, MEd, BAMF



Brand New Opening



Principle

*We remember only what
we pay attention to...*

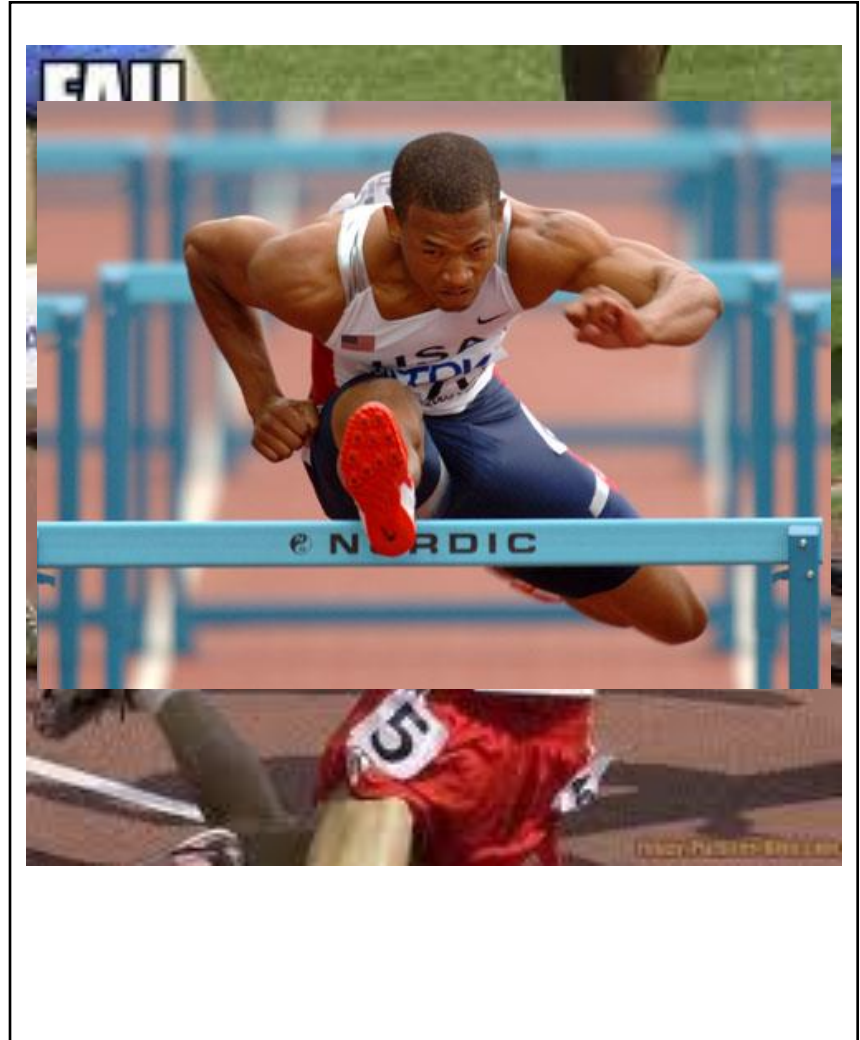




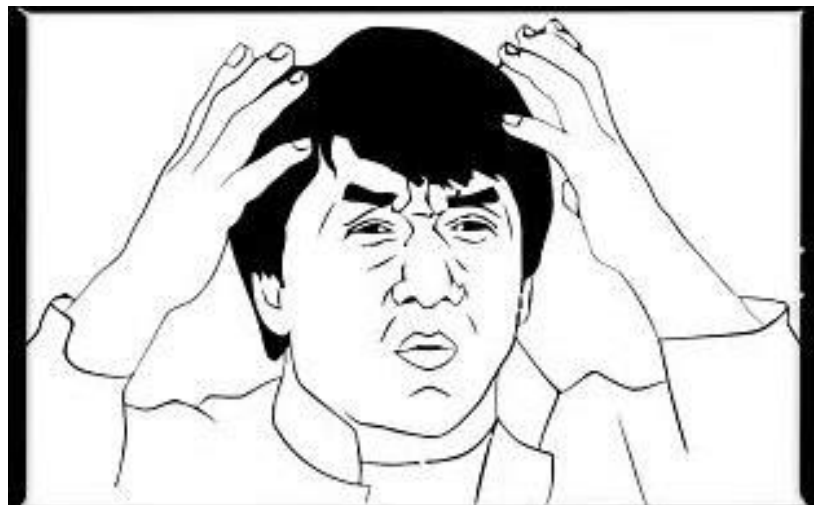
Principle

*We remember only what
we pay attention to...*

...AND IT'S FRAGILE!



So What!?

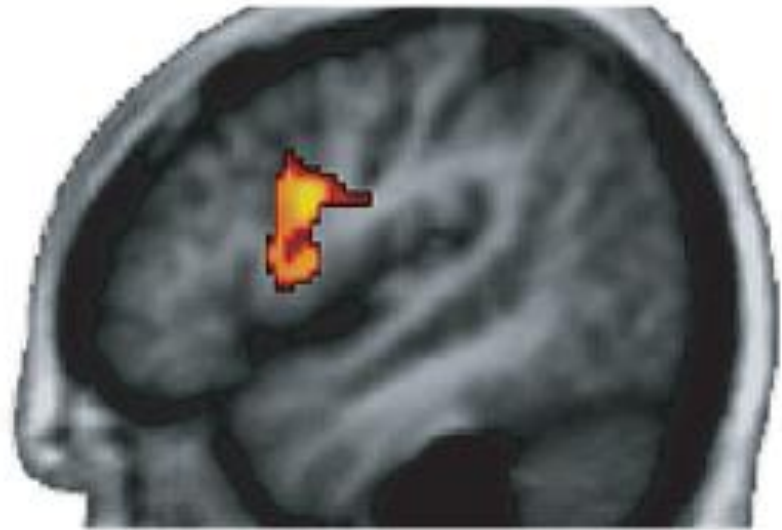


A Game

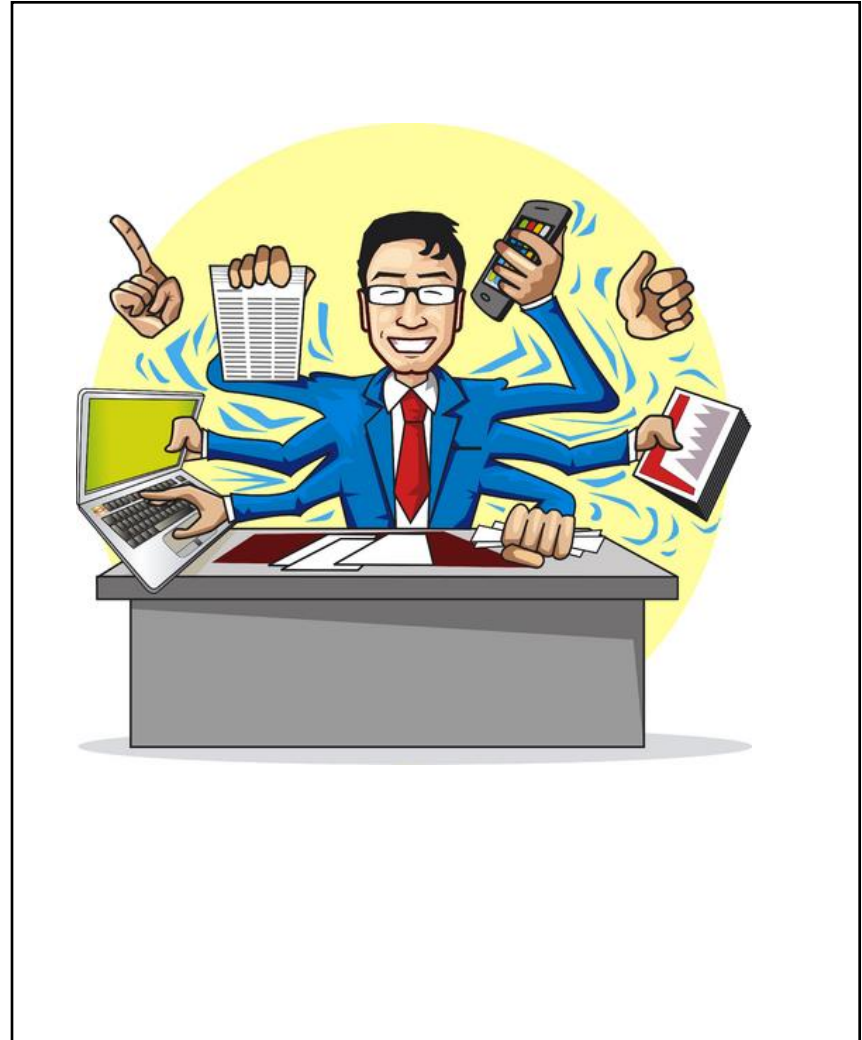


Multitasking

We Can't Do It!



Principle
Multitasking is the
Single Worst
thing for Learning



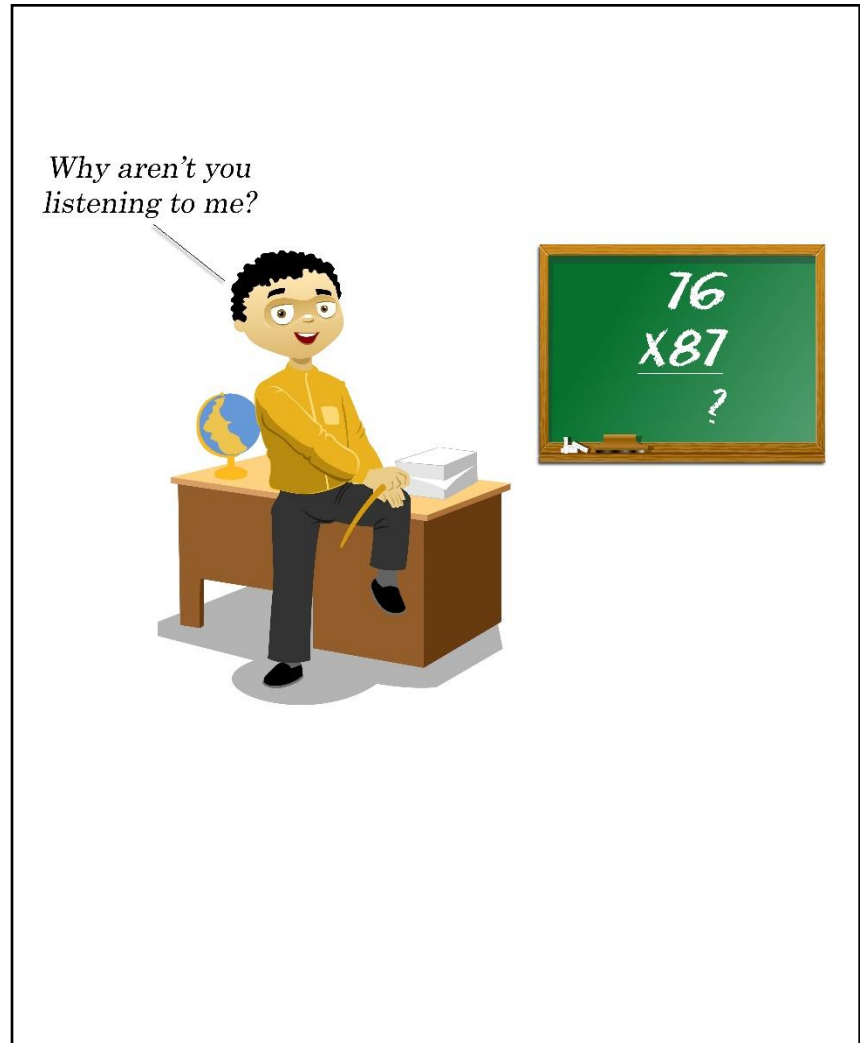
STUDENTS



Sequence and Scaffolds



Avoid Unfinished Discussions



Short & Sharp

25min on

5min off

x2



Decreased Learning



Computers

OECD

“Students who use computers very frequently at school do a lot worse in most learning outcomes.”



Organisation of Economic
Co-Operation and Development

Computers

J-PAL

126 Research Studies

*“Computers do not
improve K-12 grades and
test scores. Online courses
lower academic
achievement compared to
in-person courses.”*

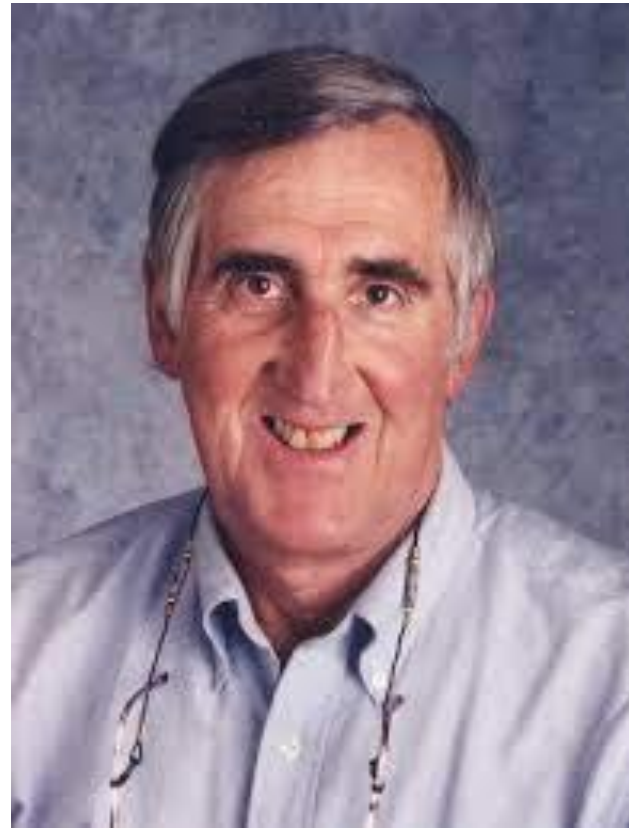


Computers

Larry Cuban

*Emeritus Professor @
Stanford University*

*“Computers were
supposed to improve
academic achievement
and alter how teachers
taught. Neither has
occurred.”*



Primary Function



Primary Function



Breakdown (*per week*)

Video Games – 10.75hrs

TV / Videos – 10hrs

Social Media – 8.25hrs

Music – 7.5hrs

Homework – 3.5hrs

Schoolwork – 2hrs

Pleasure Reading – 1.25hrs

Creating Content – 1hr

Pleasure Writing – 0.25

>30% Multitasking



Breakdown
(per year)

Learning

198hrs

***Passive Consumption of
Rapidly Switching Media
Content***

2,028



Breakdown
(*per year*)

Learning

198hrs

Multitasking

2,028



Digital Learning

~6min homework

*~15min live-lesson
(~2min)*



Primary Function

*Nobody is saying it CAN'T be
used for learning...*

*...but it so often ISN'T used
for learning that we've got a
major obstacle.*



But...
*Specific Learning
Disabilities*



But...

*Specific Learning
Disabilities*

Procedural Simulations



But...

*Specific Learning
Disabilities*

Procedural Simulations

*Engagement
(Not Same as Learning)*



STUDENTS



ADULTS



We All Multitask

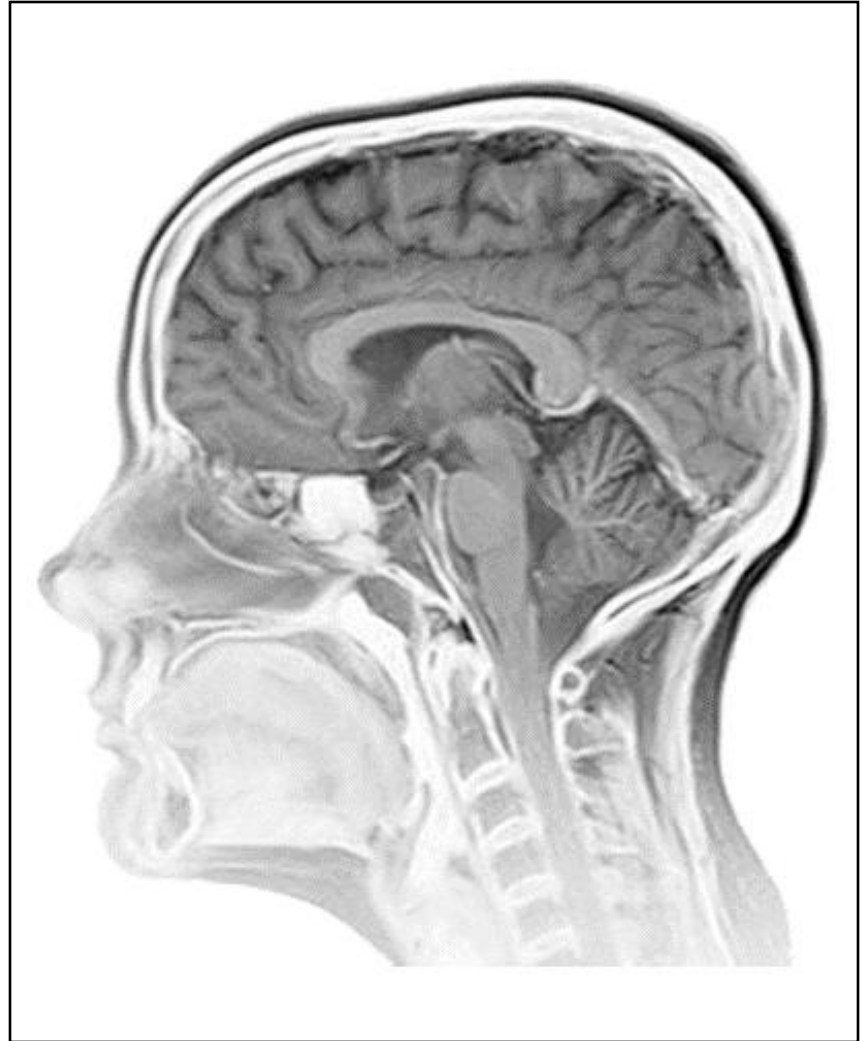


My Motto...

teach the
WHY

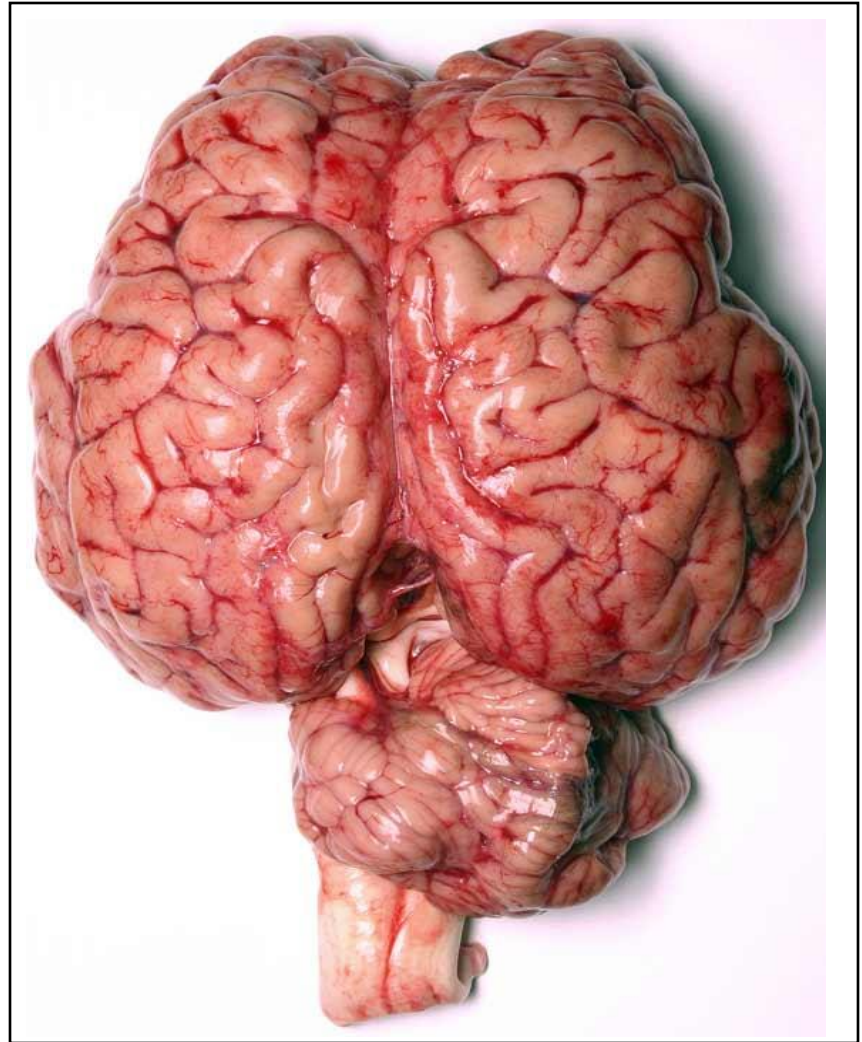
not the
WHAT

Let's Learn the Why



The Brain

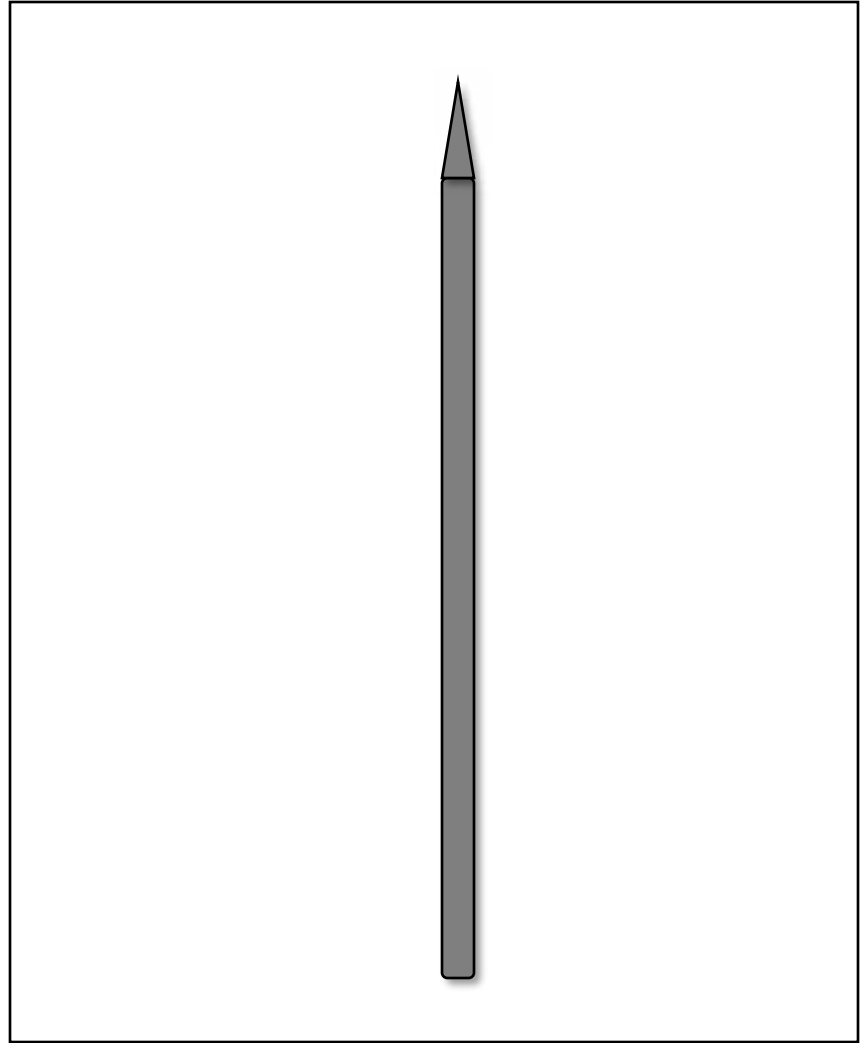
Phase 1



Phineas Gage



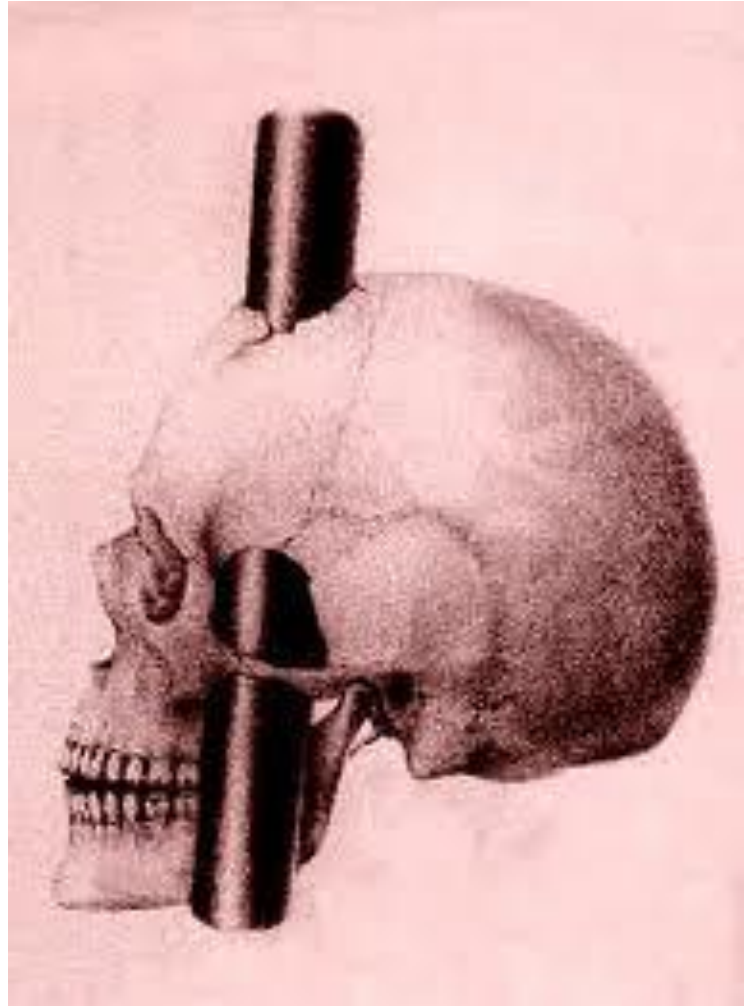
Tamping Iron



Phineas Gage



Phineas Gage

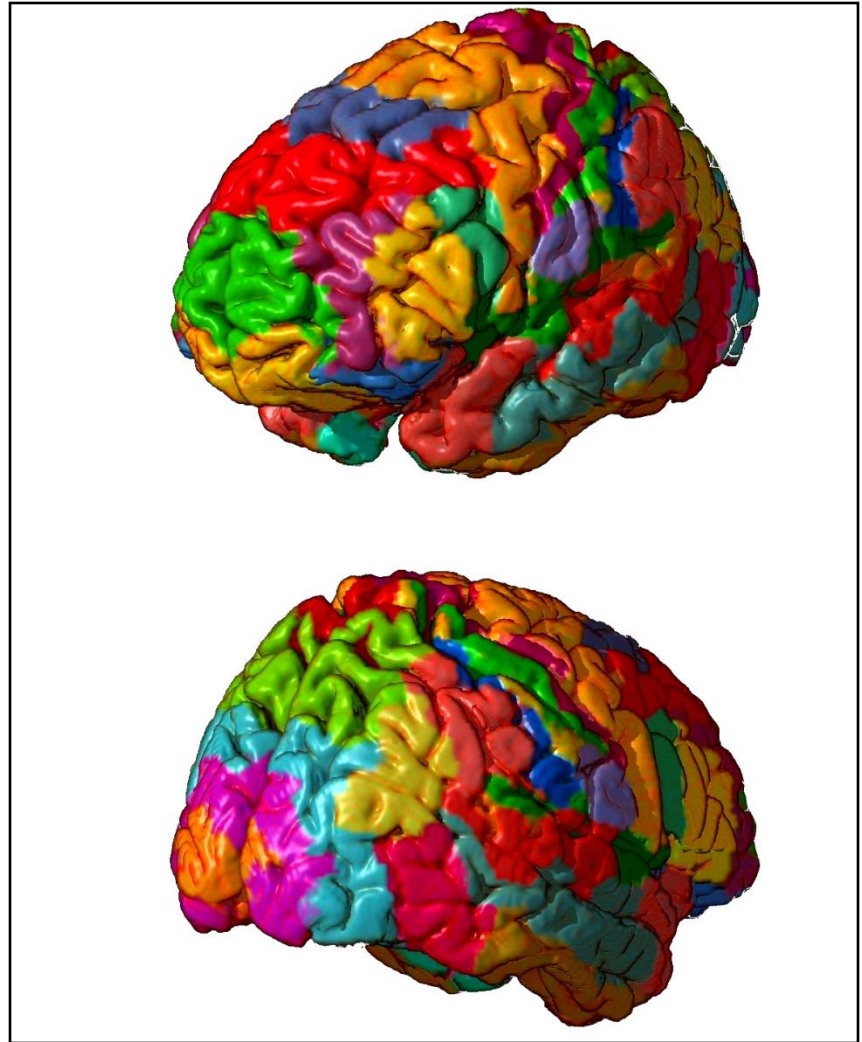


Phineas Gage

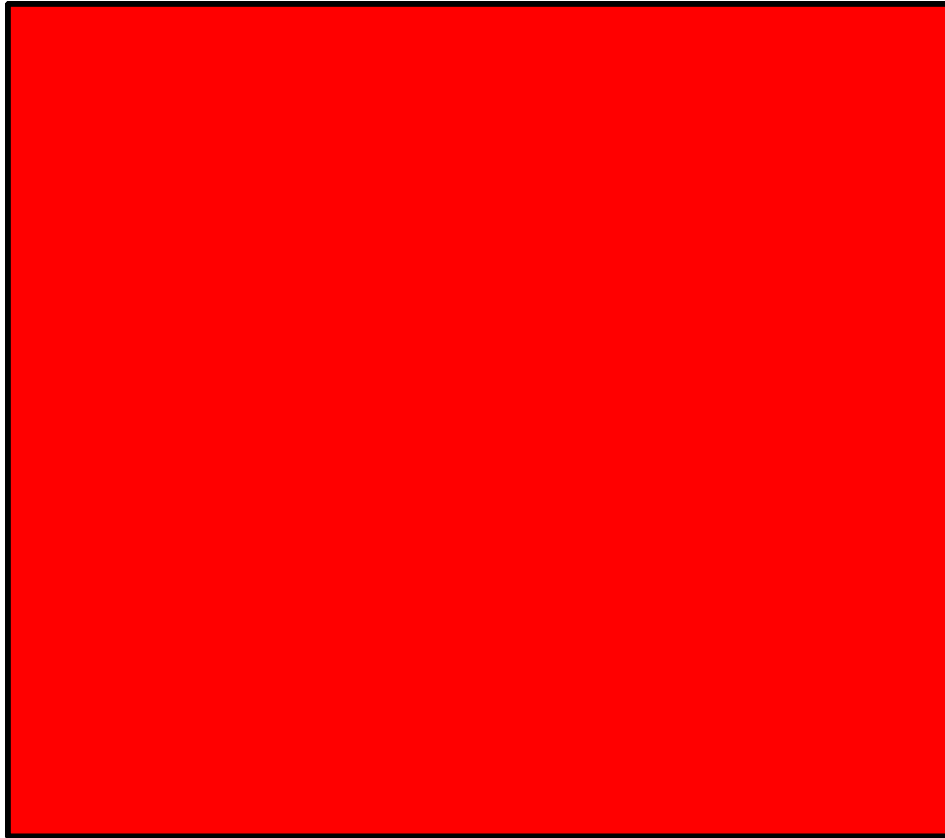


The Brain

Phase 2



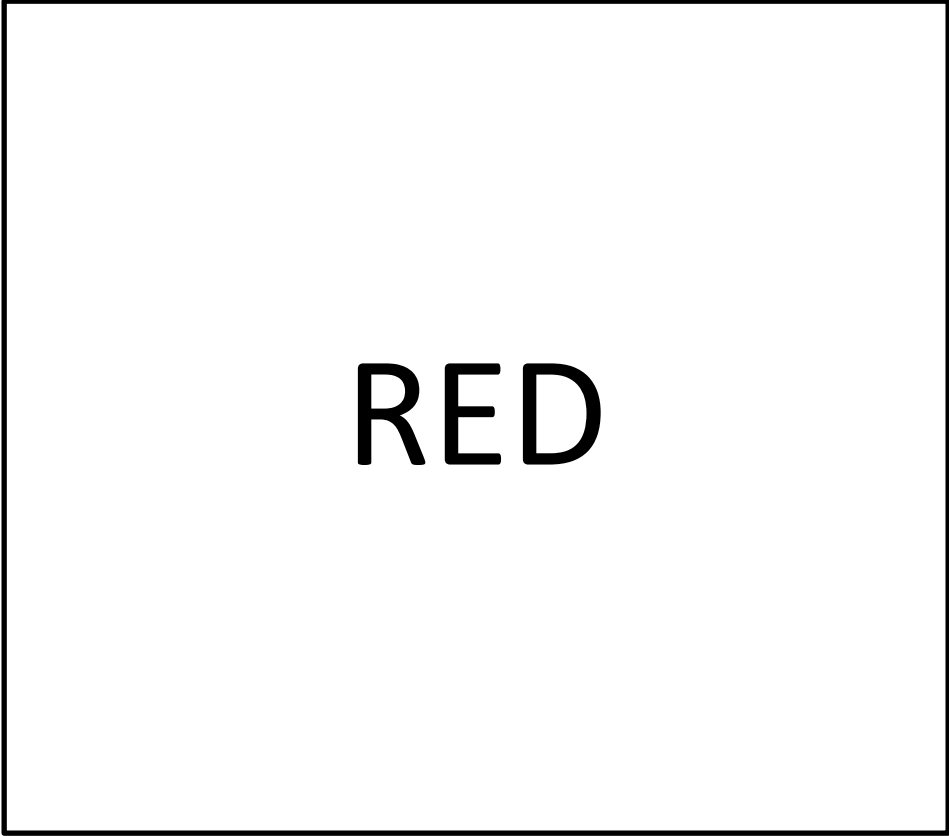
Know Your Colors?



GOOD!



Know Your Words?

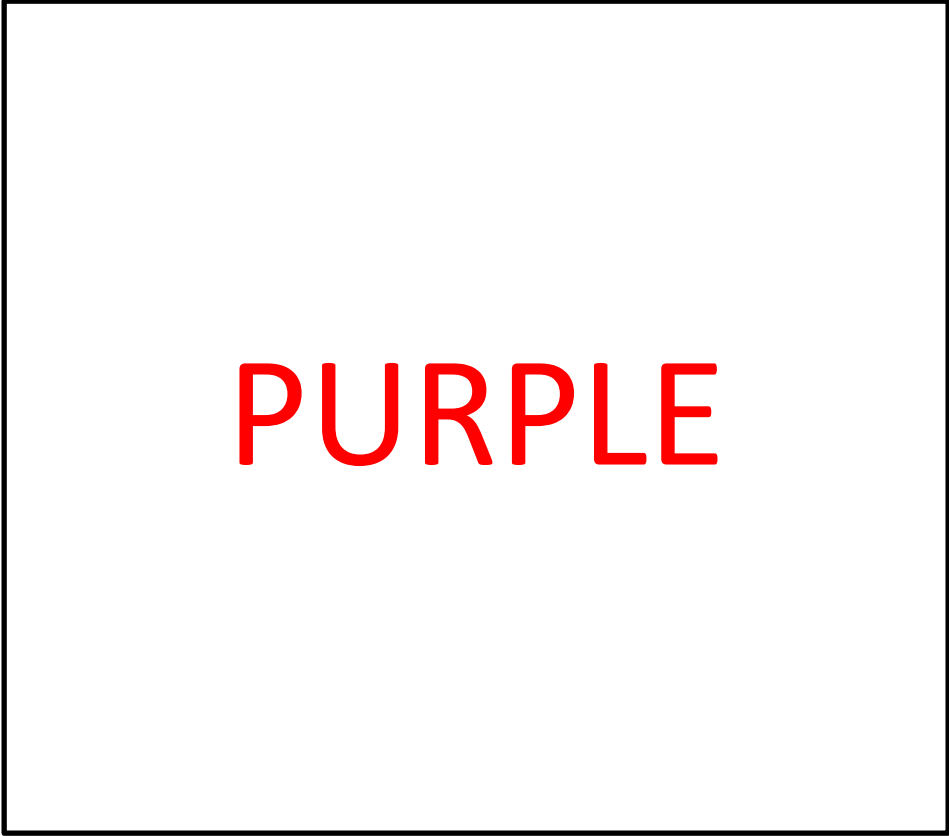


RED

GOOD!



Know Your Color Words?



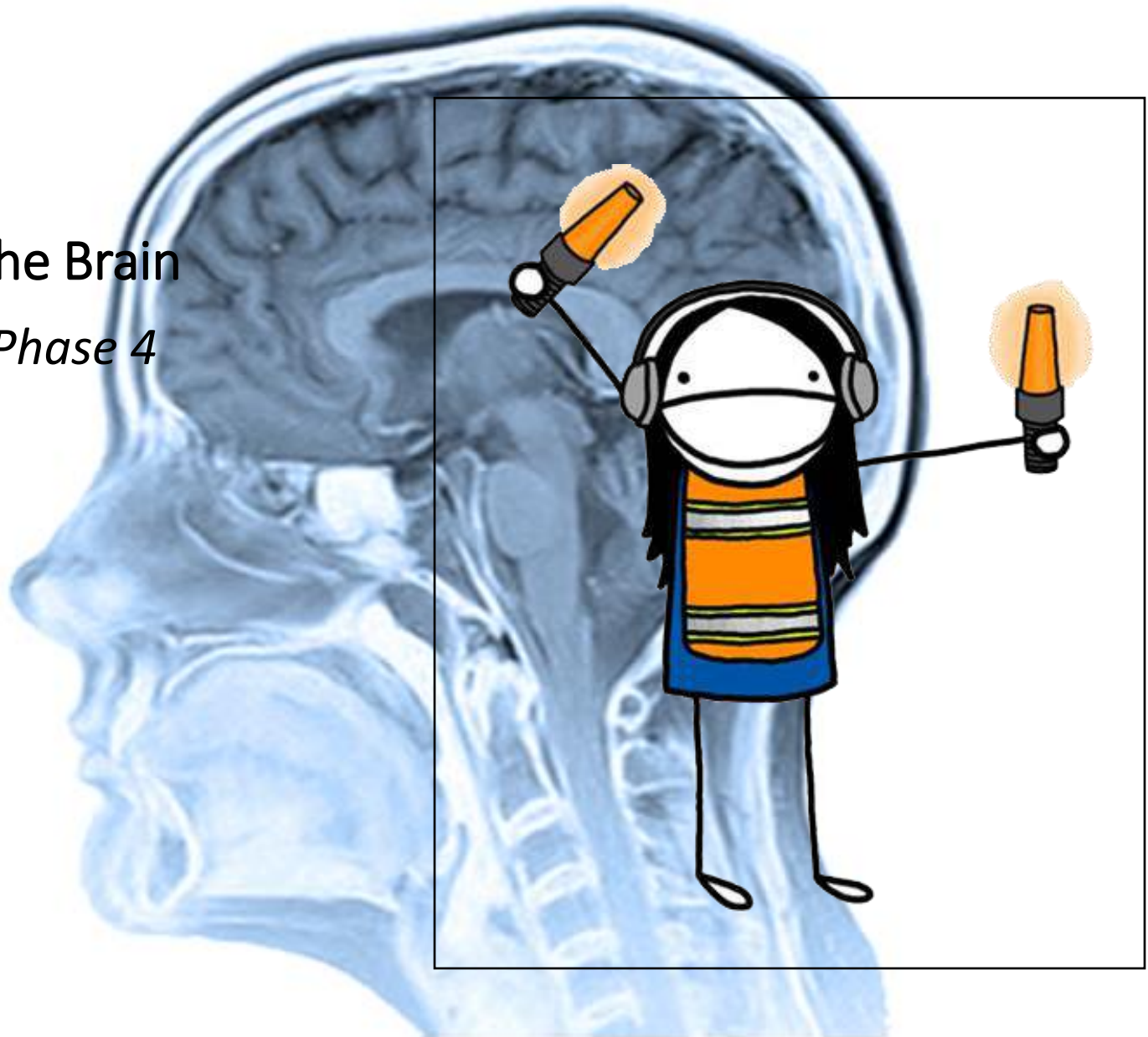
PURPLE

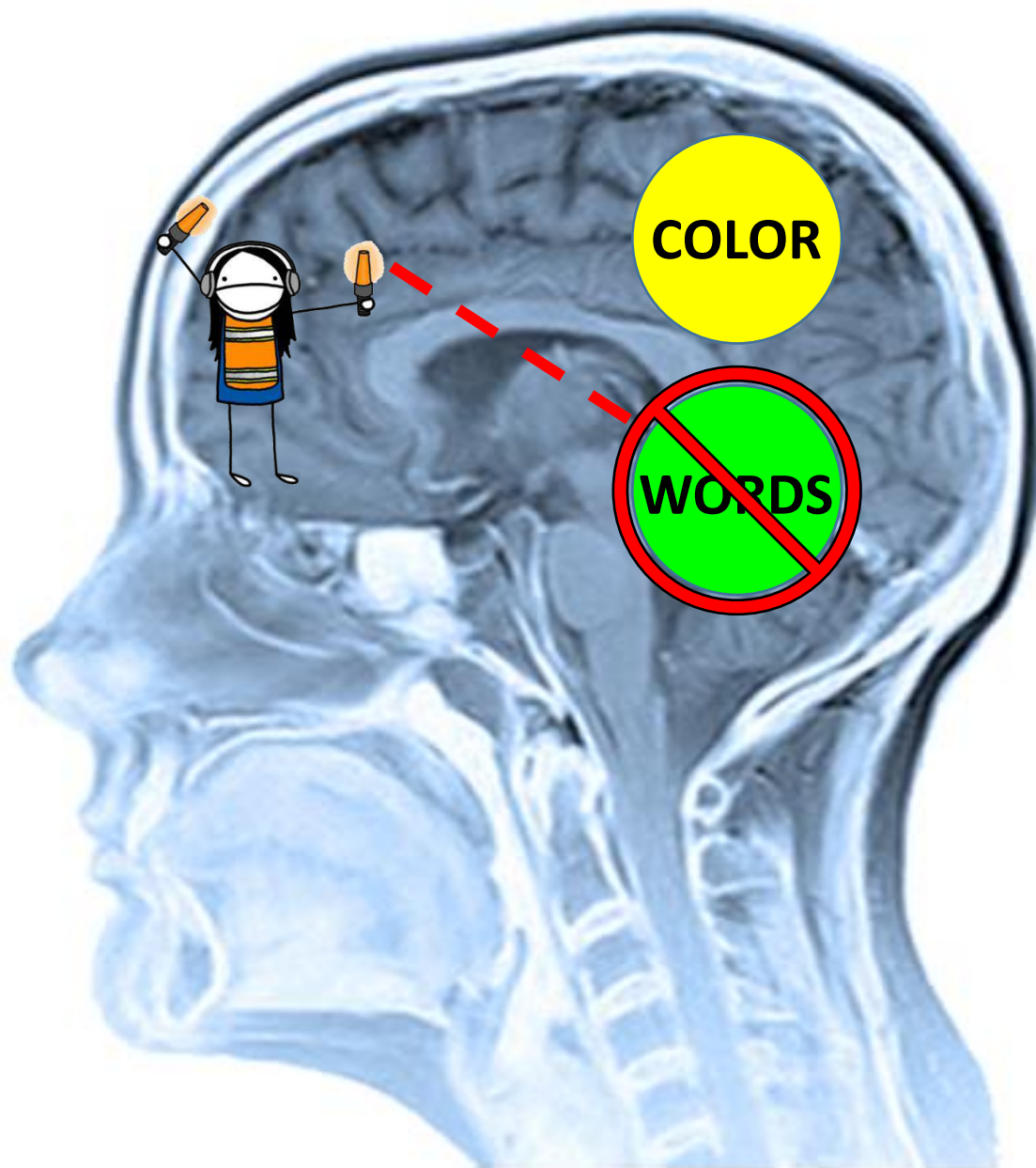
D'Oh...

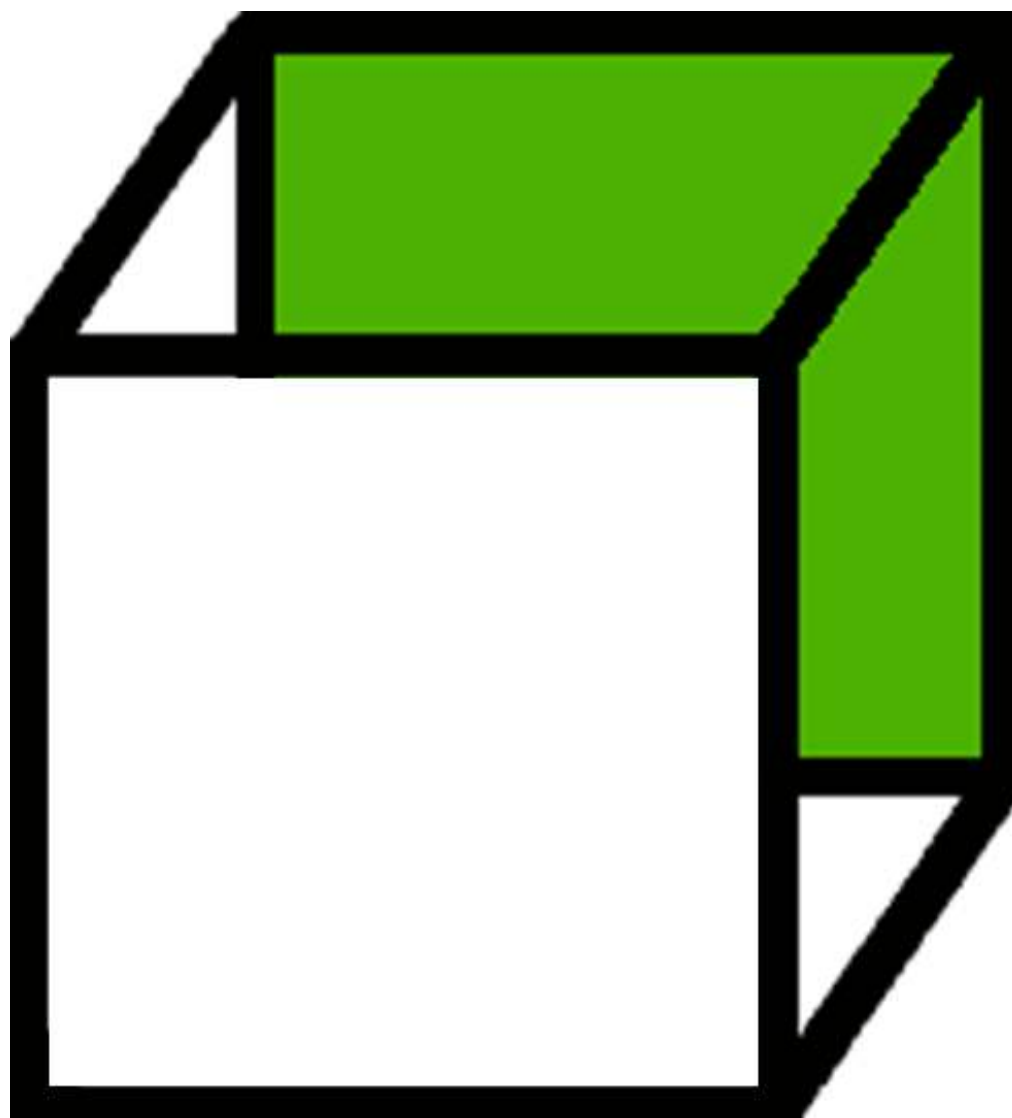


The Brain

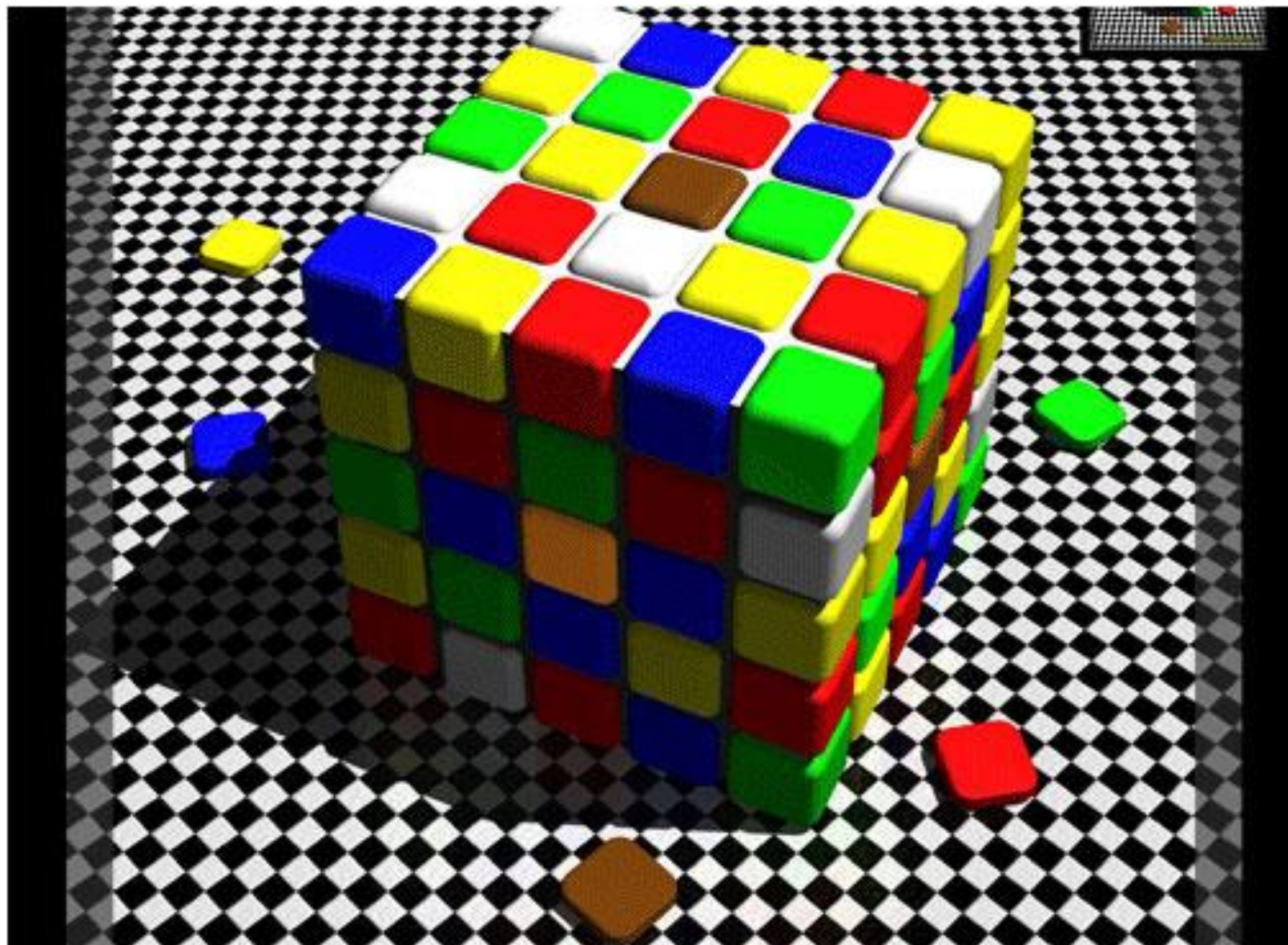
Phase 4





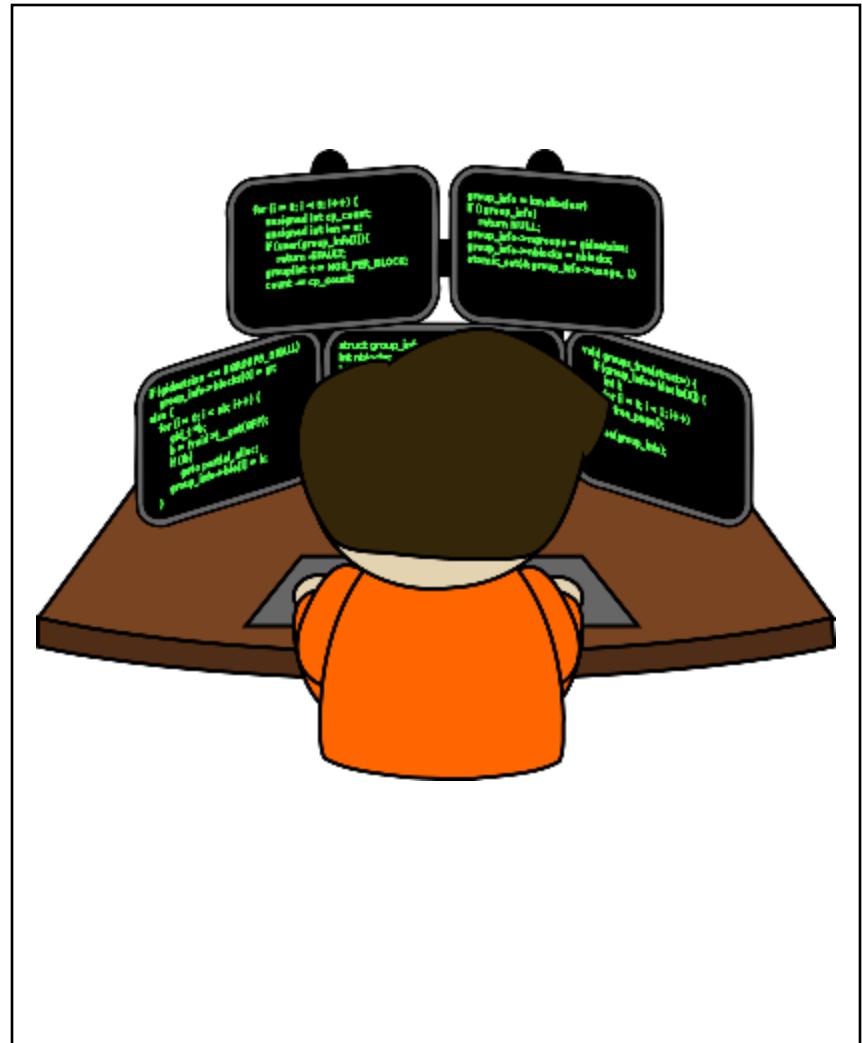


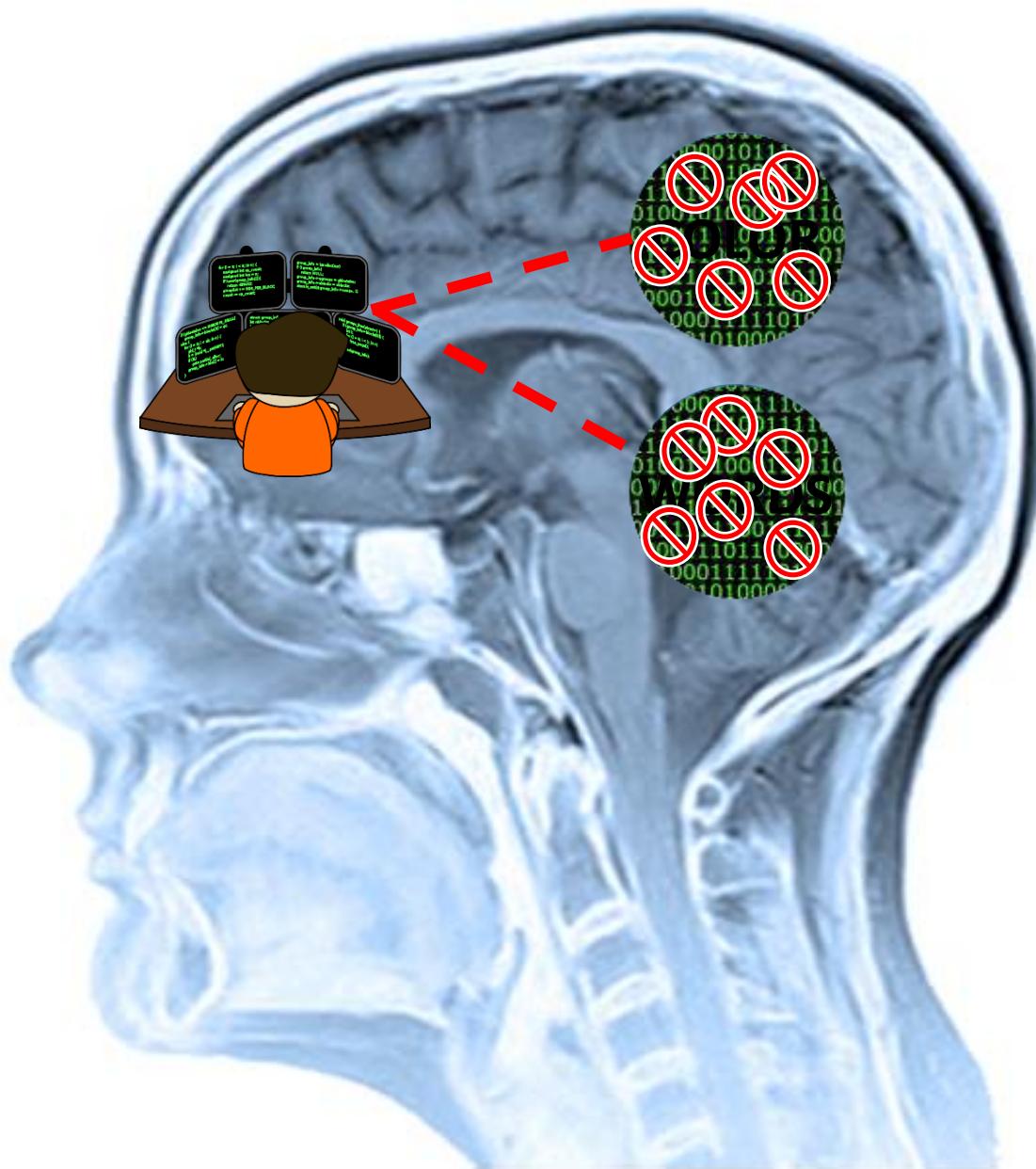




The Brain

Phase 5







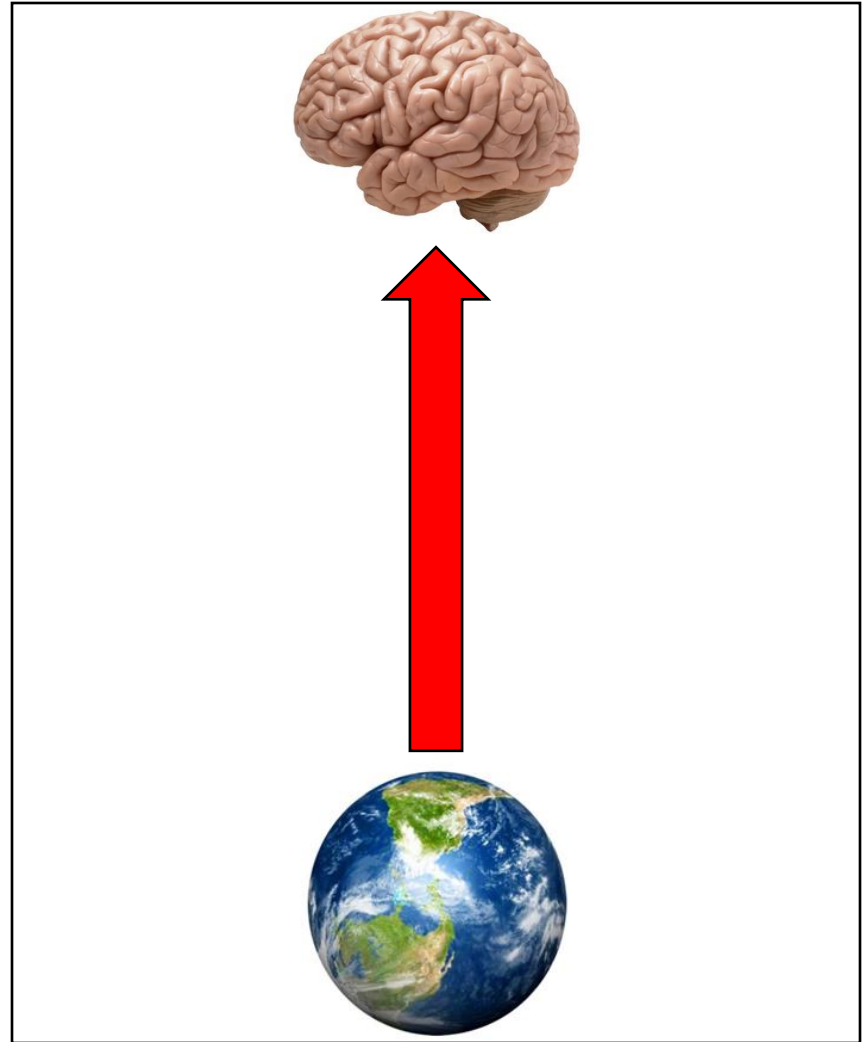
The Brain

Phase 1

Phase 2

Phase 3

Phase 4



The Brain

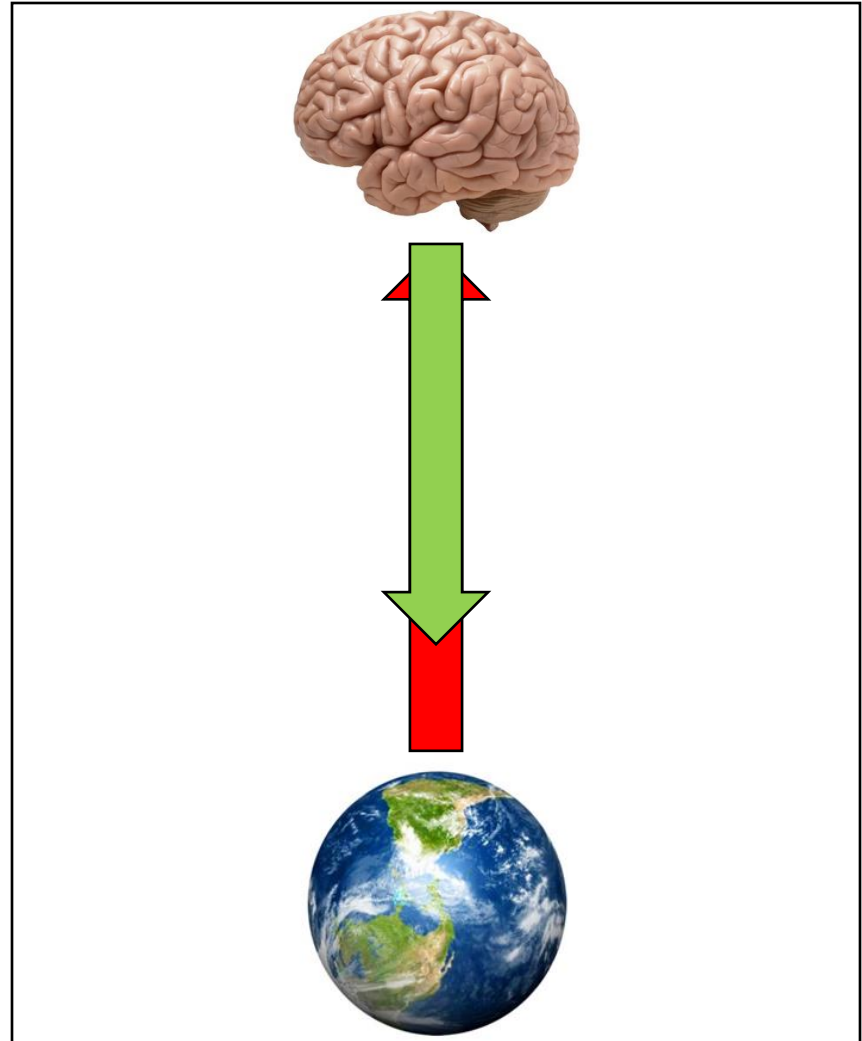
Phase 1

Phase 2

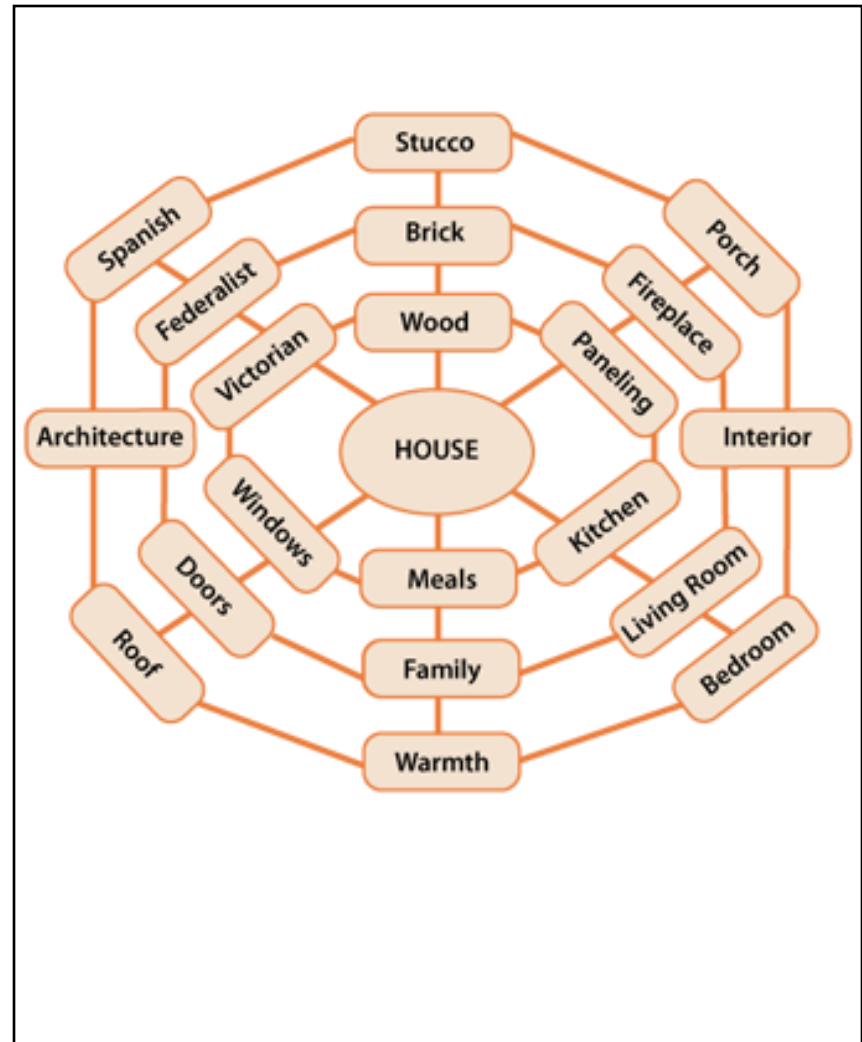
Phase 3

Phase 4

Phase 5



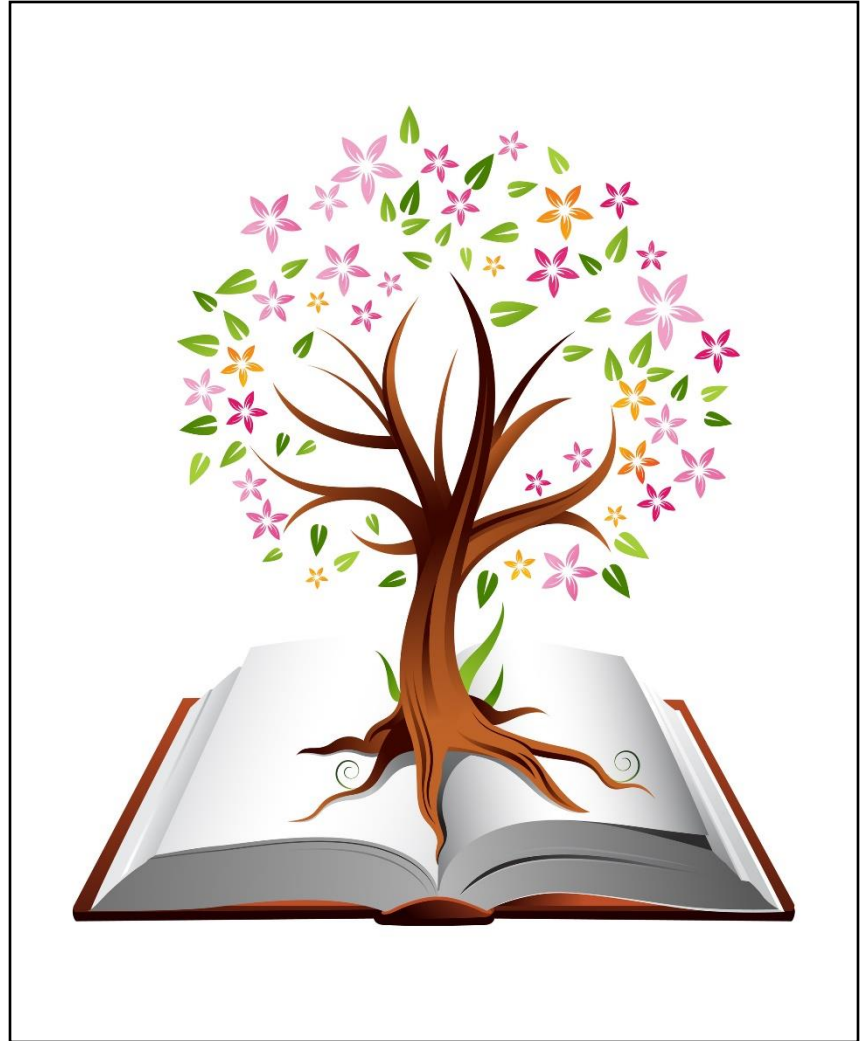
Schema / Event Structures



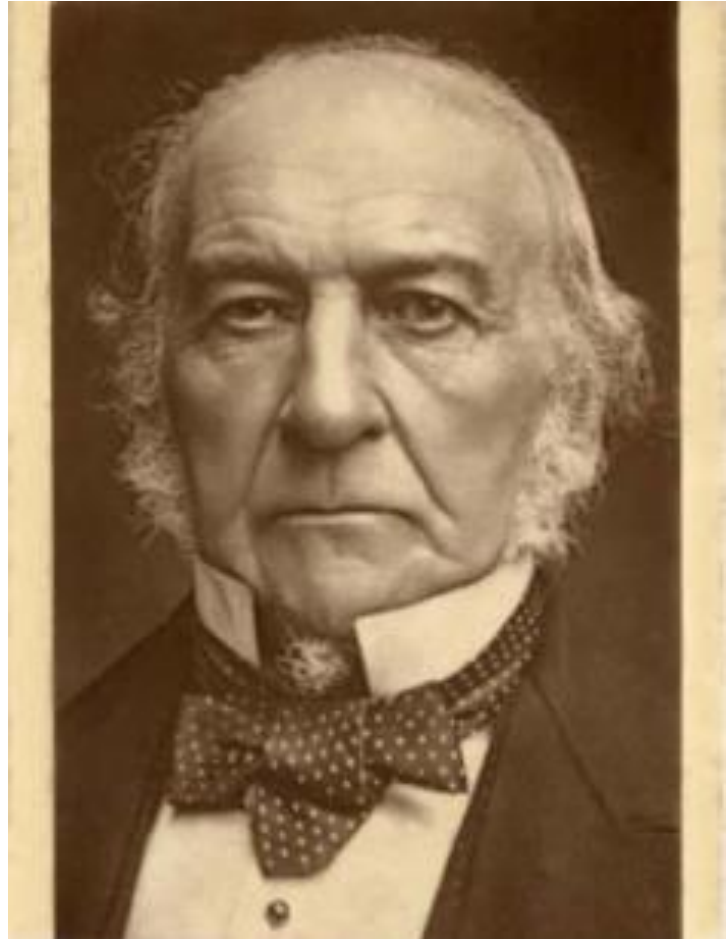
Concepts / Mental Models

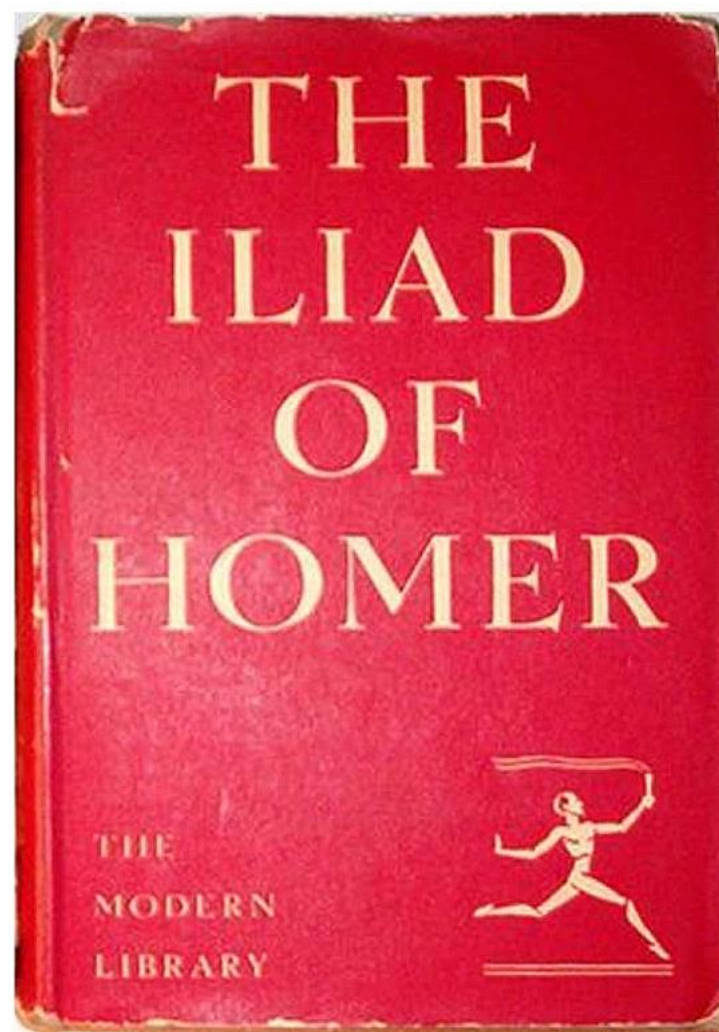
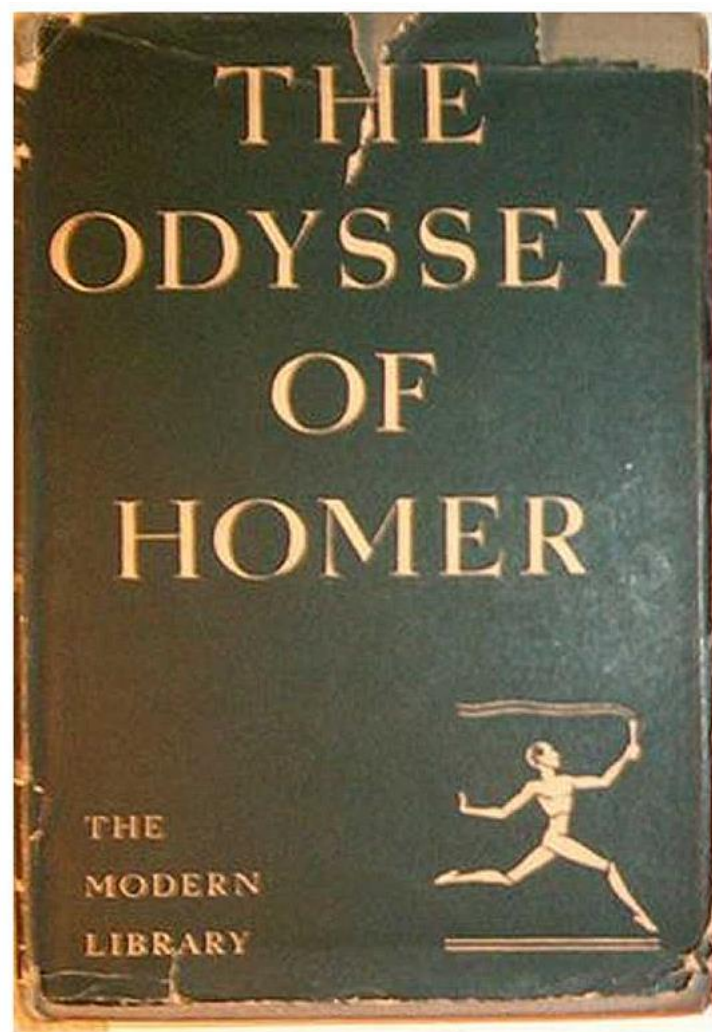


Stories

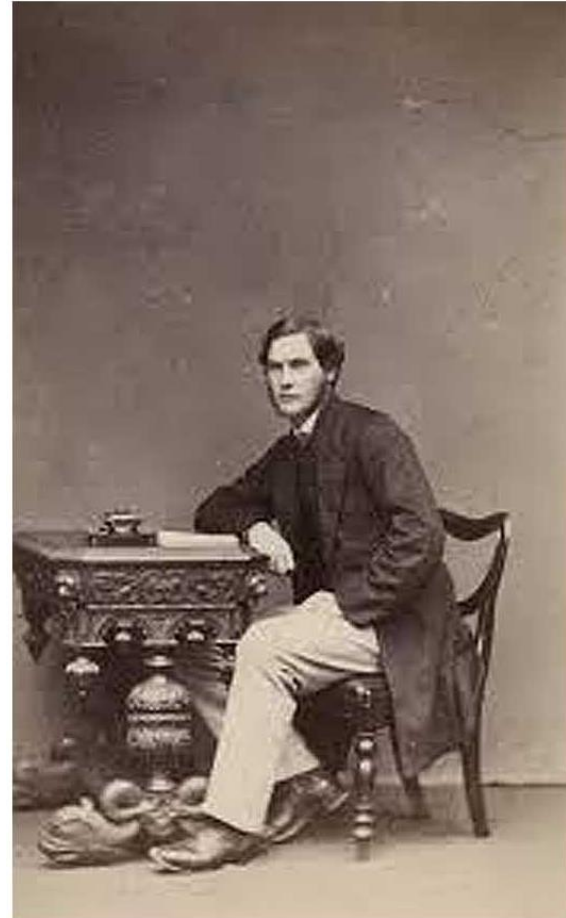


William Gladstone

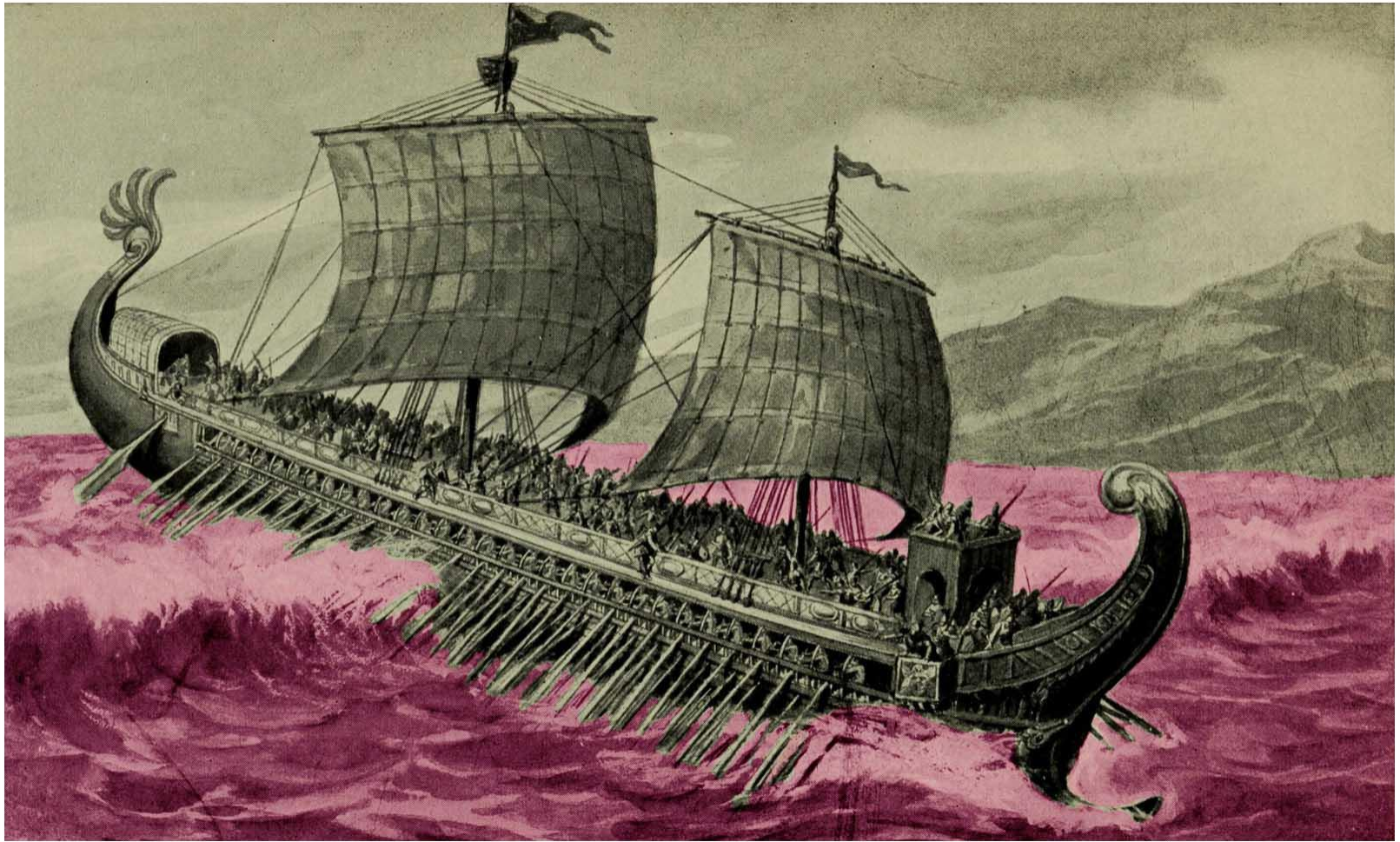




William Gladstone





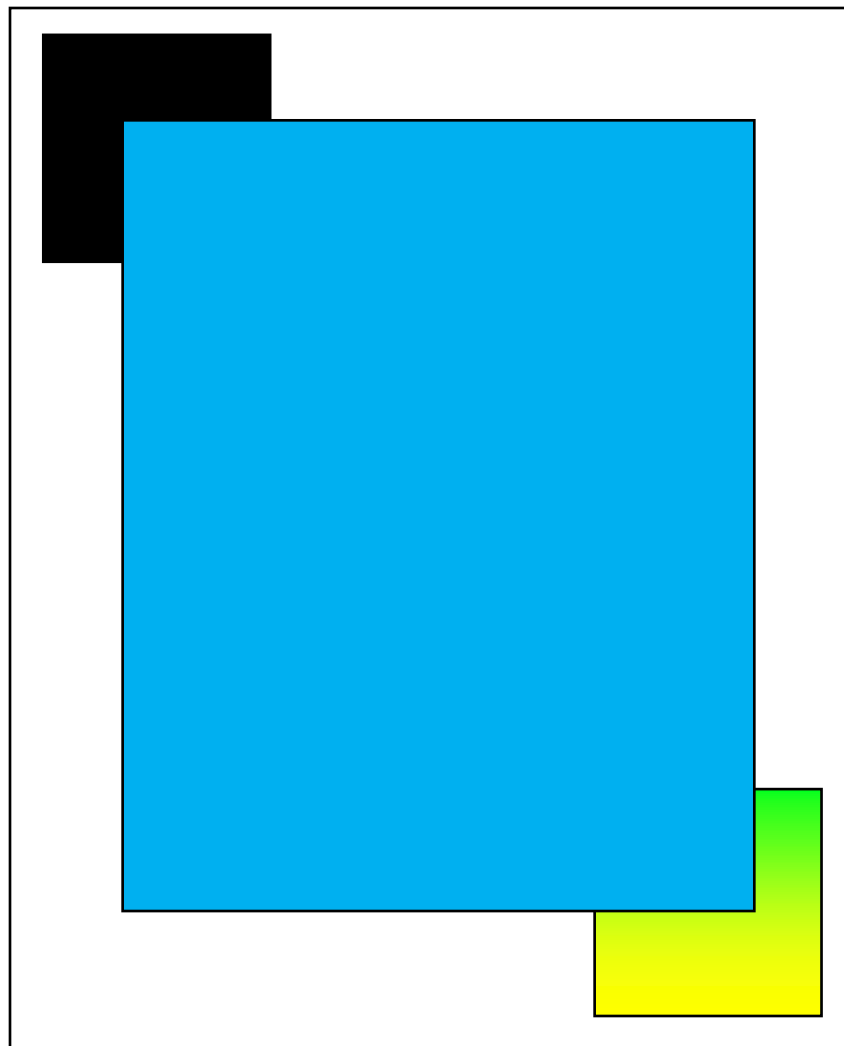




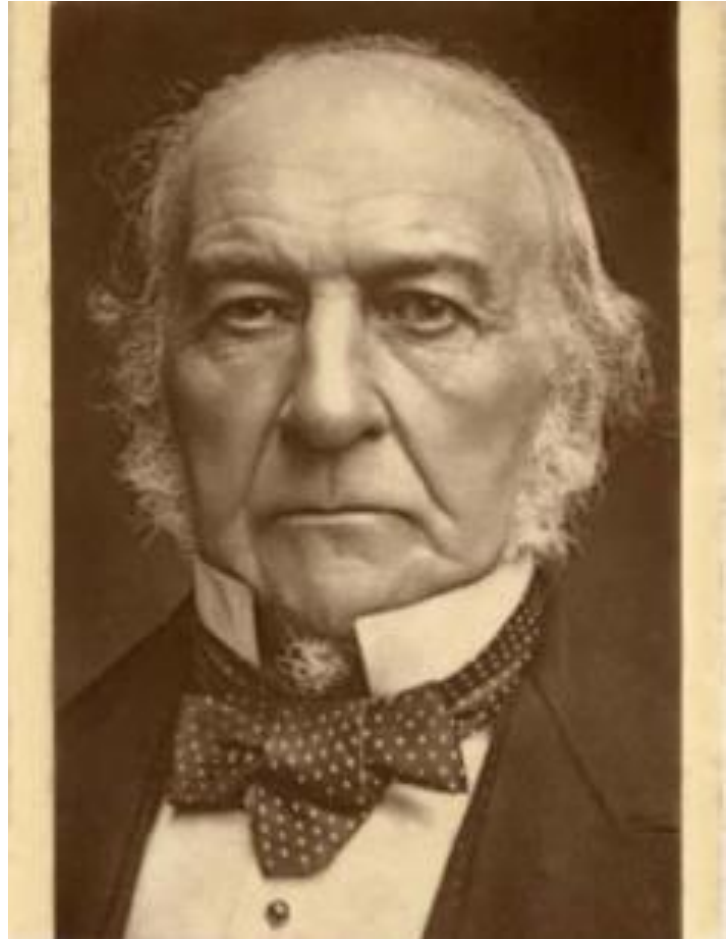
William Gladstone



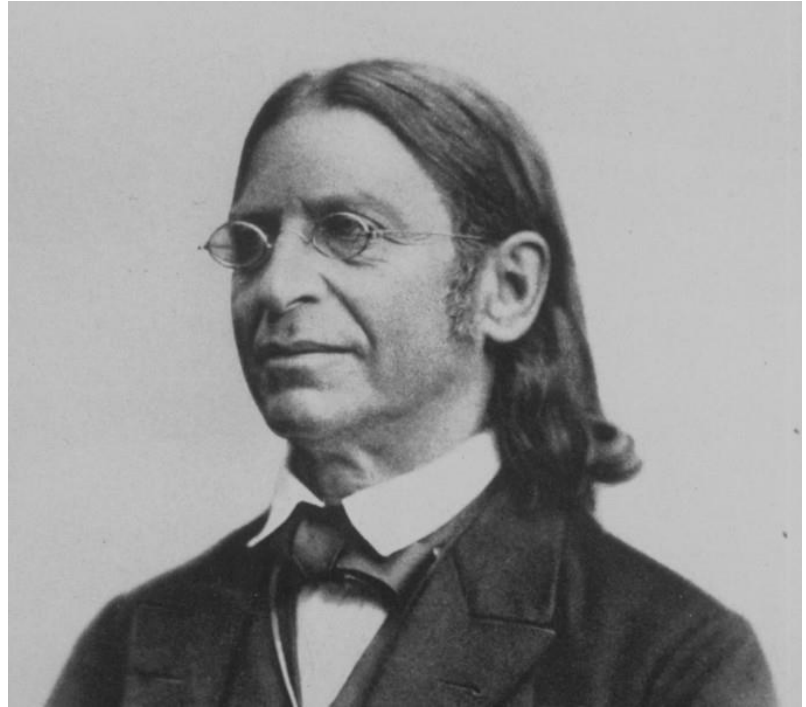
William Gladstone



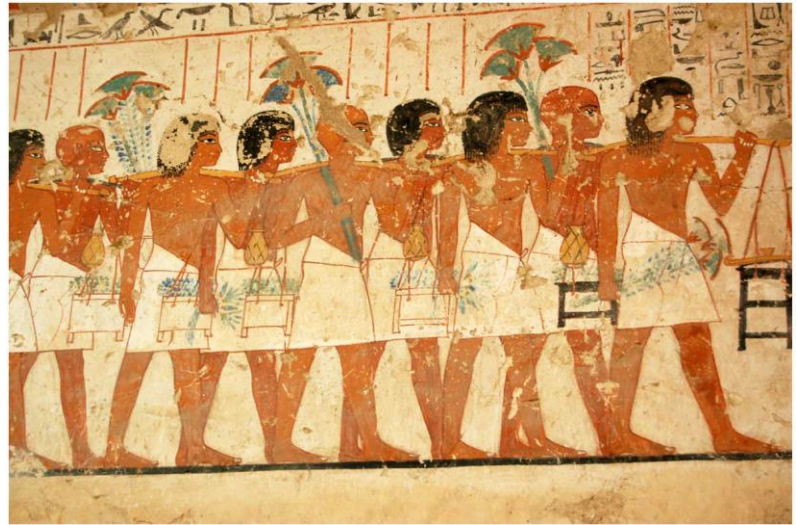
William Gladstone



Lazarus Geiger



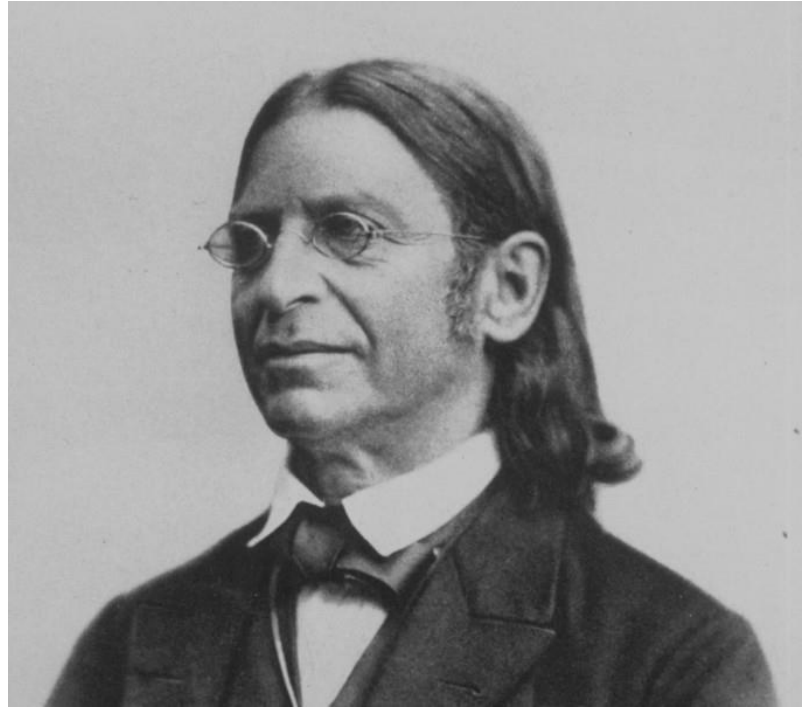
Egyptians



Lapis Lazuli



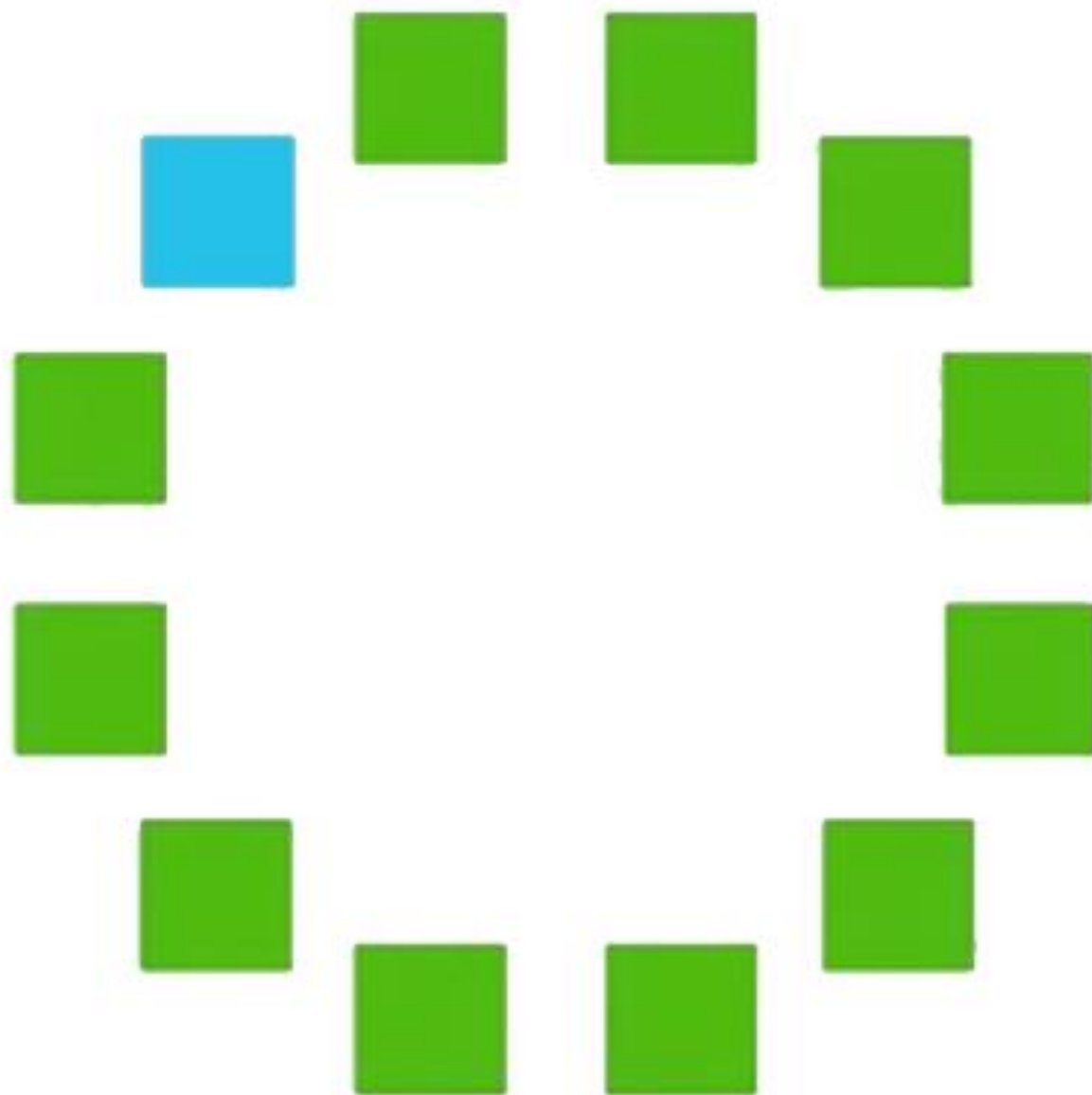
Lazarus Geiger

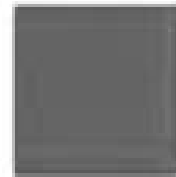
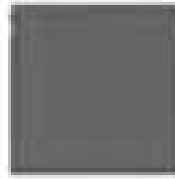
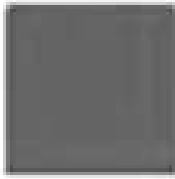
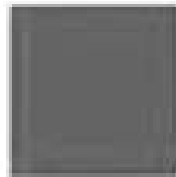
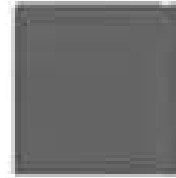
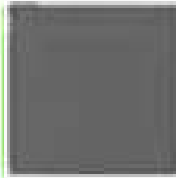
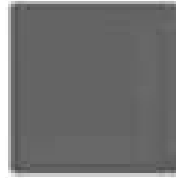
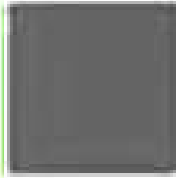
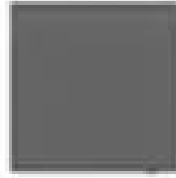
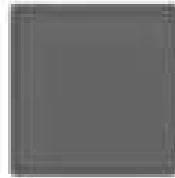
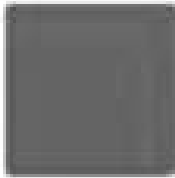


The Himba

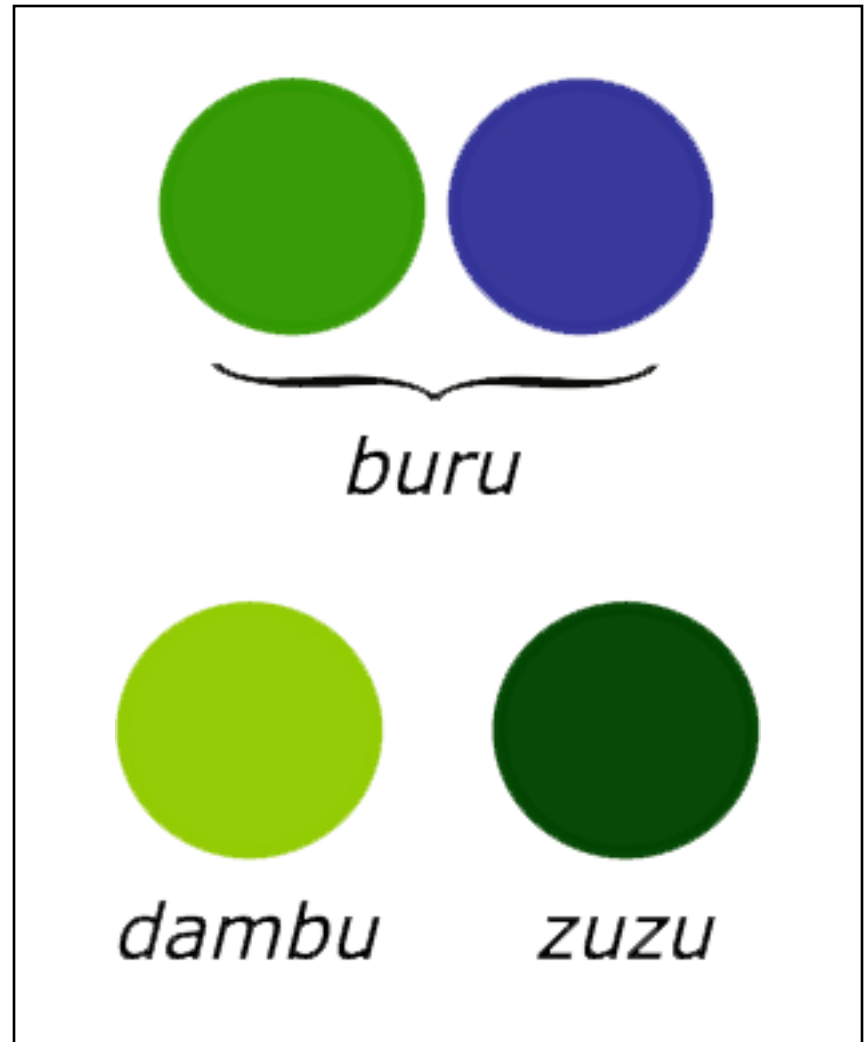
Namibia





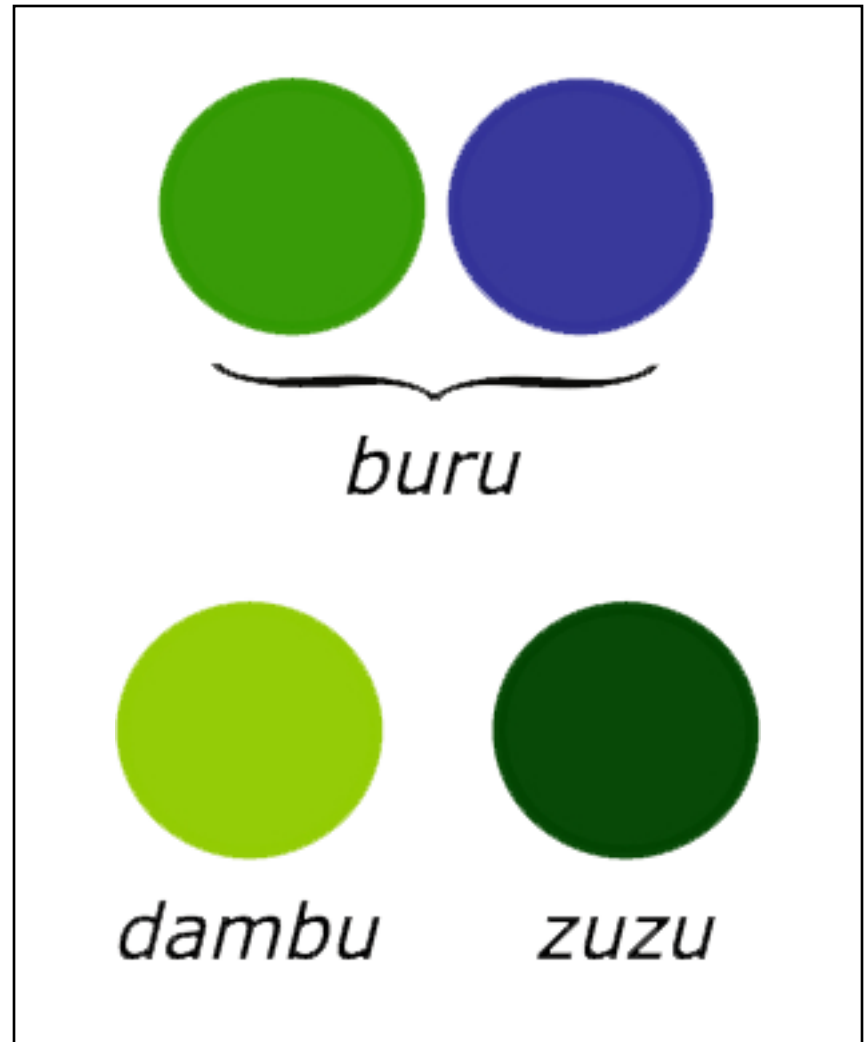


Himba





Himba



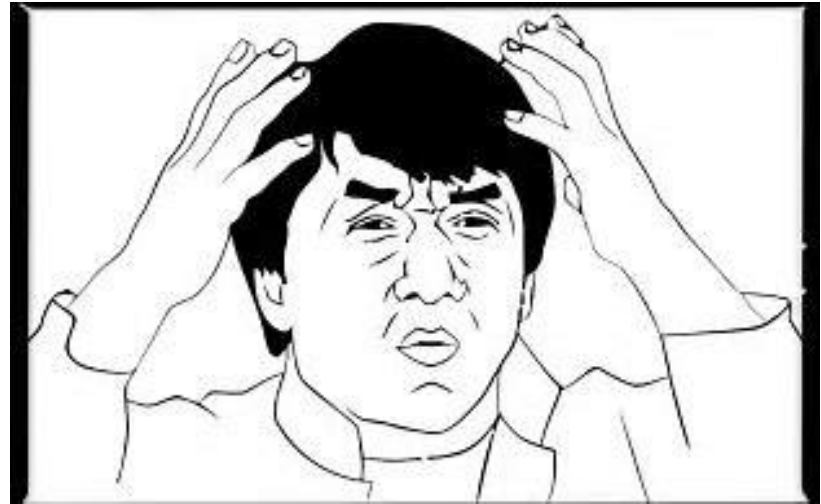
So What!?

Alone:

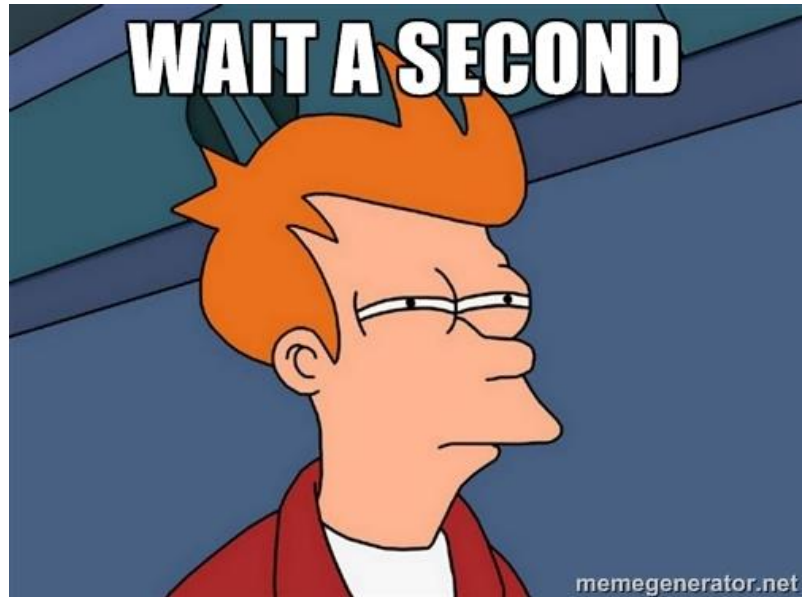
*Spend ~90sec writing down
the story thus far.*

Small group discussion:

*What this might mean for
you, your job, and your
team?*



The Brain



The Brain



Bottom Up /
Top Down



Bottom Up



Top Down



Bottom Up /
Top Down



Bottom Up /
Top Down



Bottom Up



Top Down



Top Down



Bottom-Up



What is This!?

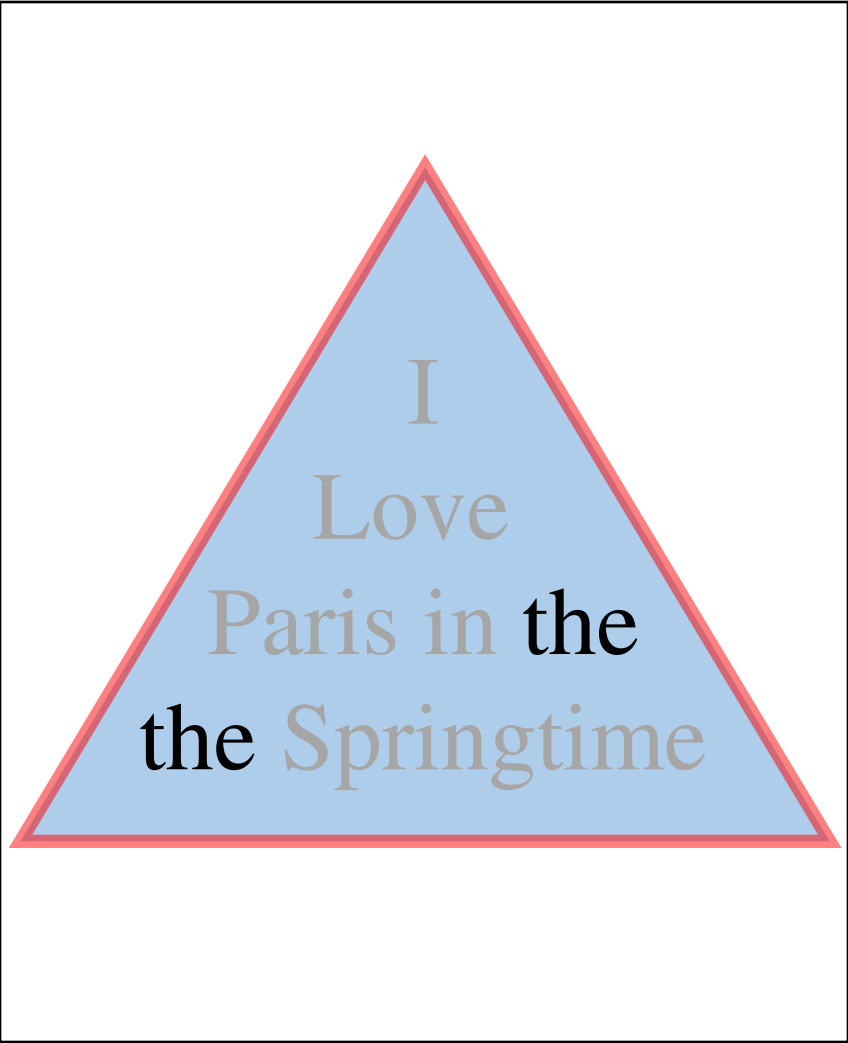


Bottom Up



FINISHED FILES ARE THE RE
SULT OF YEARS OF SCIENTI
FIC STUDY COMBINED WITH
THE EXPERIENCE OF YEARS.

Bottom Up



I
Love
Paris in the
the Springtime

Btootm up aicvtaion of pragmmros
taht fit wtih your prictdeion is the
reosan you can raed this sntecne with
Mimanil eforft – that and yrou’e
Pterty Sarmt!

Bottom Up /
Top Down



Bottom Up



Top Down



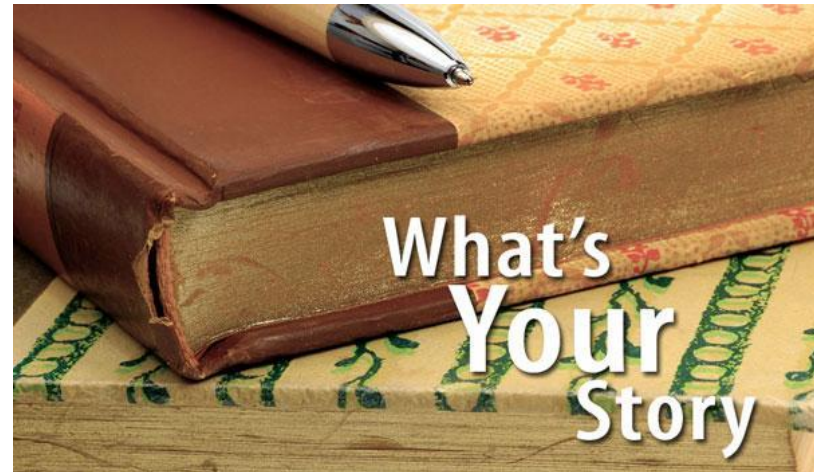
We All Multitask



Can Run Bottom-Up

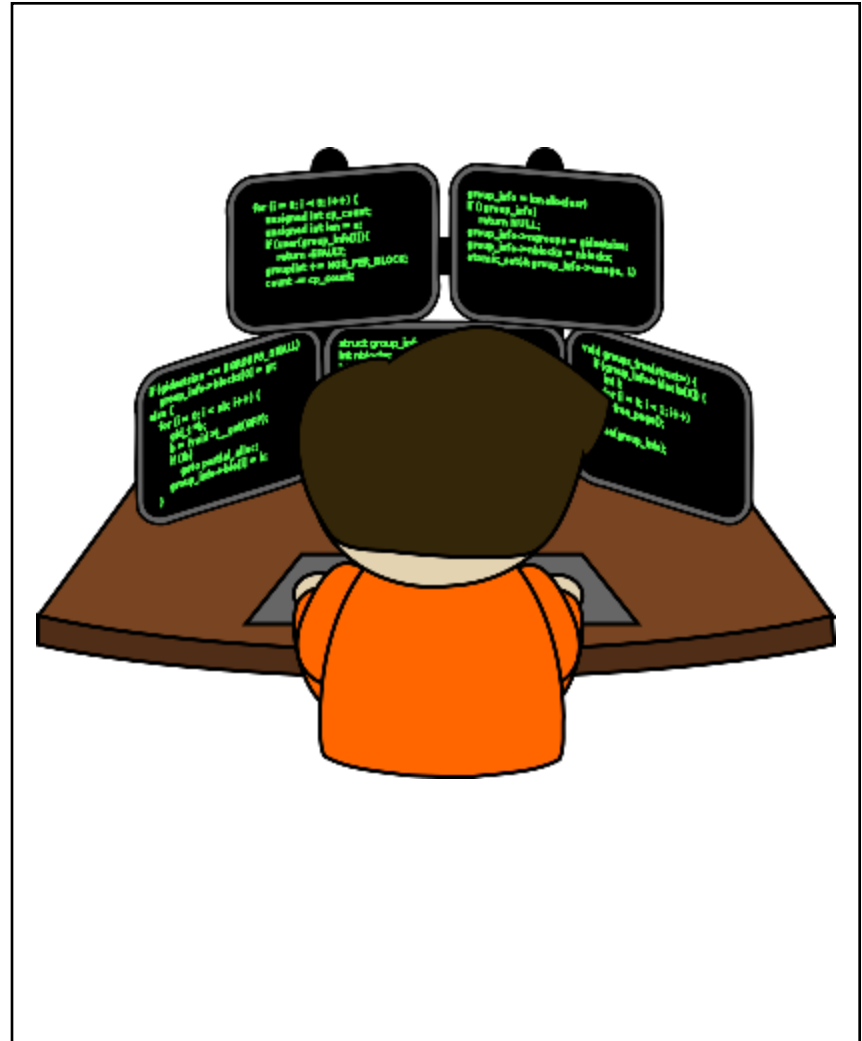


Change Your Story?



Access the Coder?

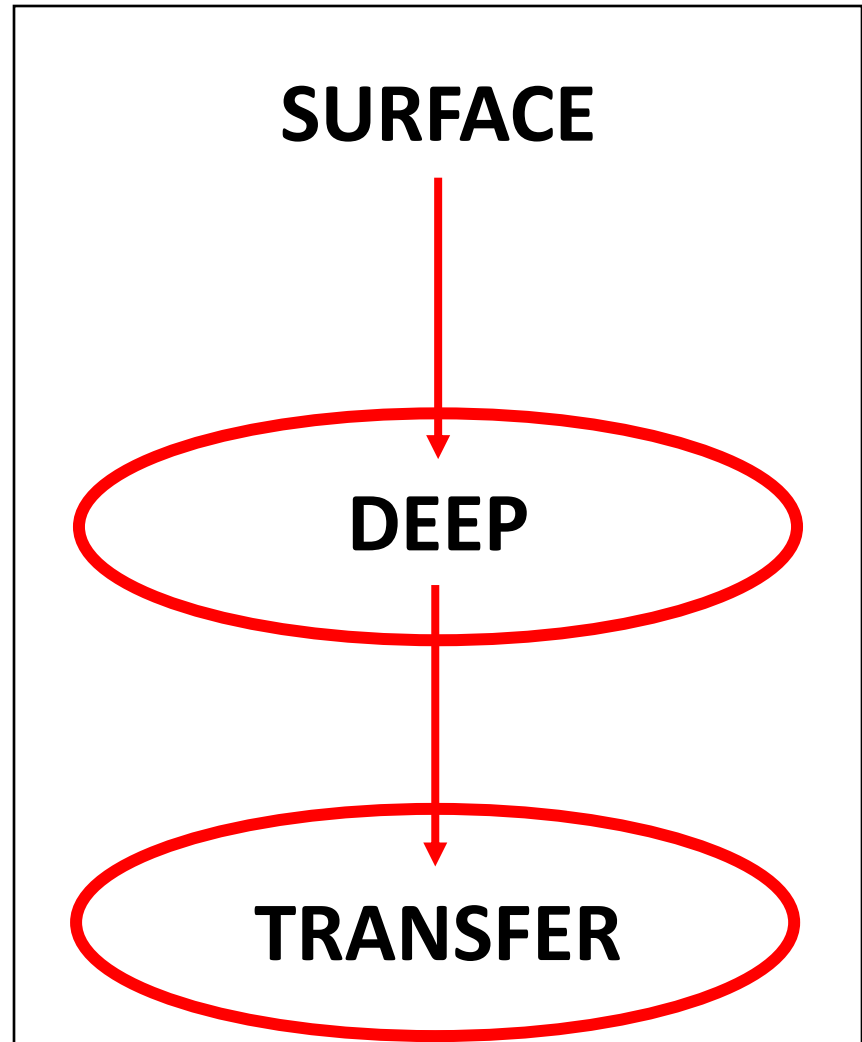
3 Ways...

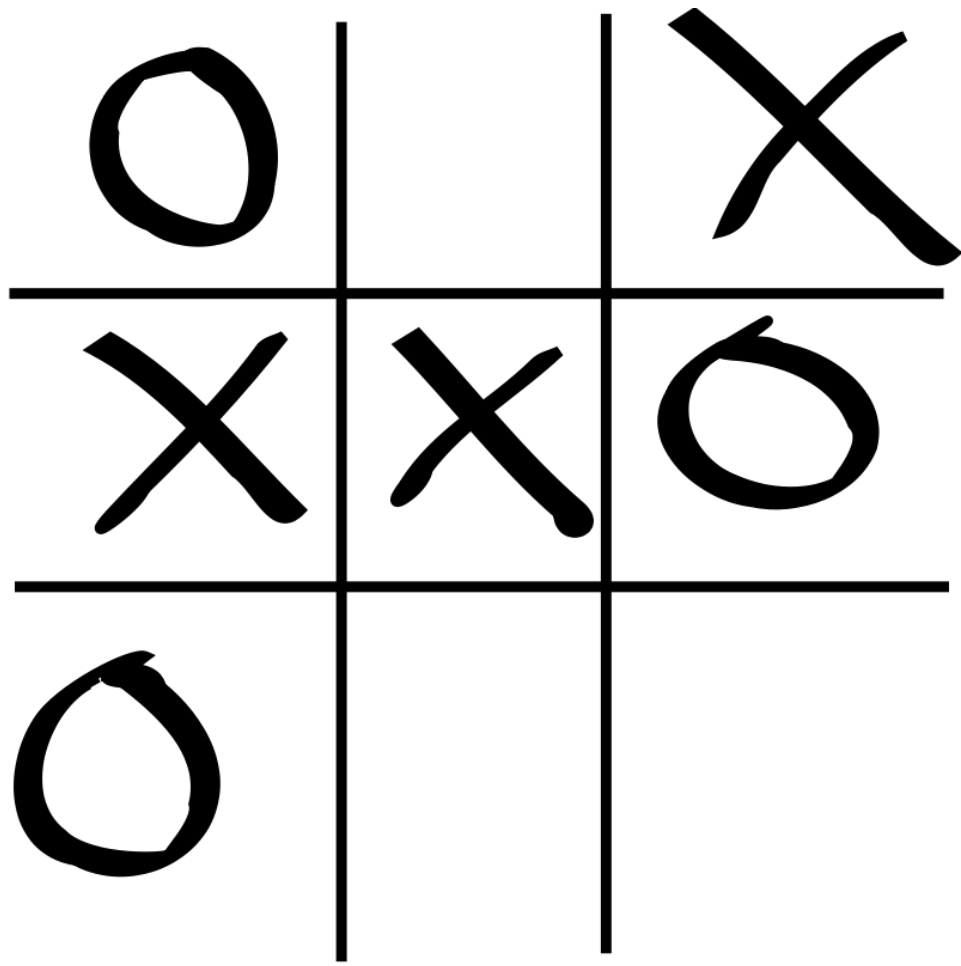


1) Go Brand New (*Trajectory*)



The Learning Trajectory





2) Change the Ruleset *(not the difficulty)*

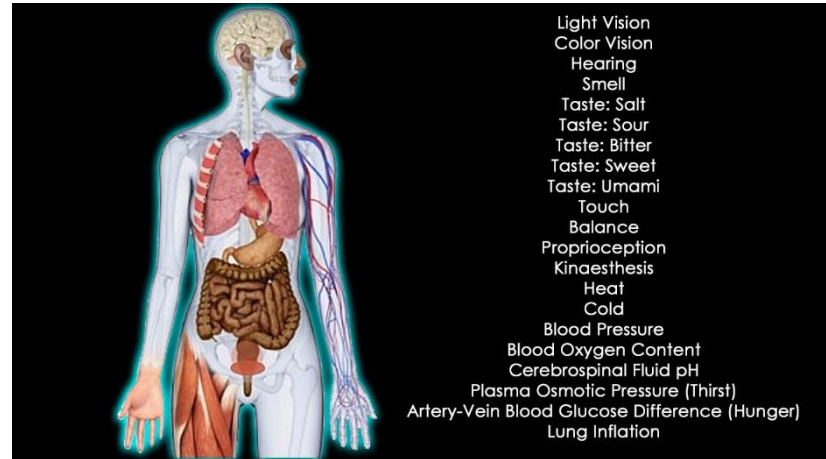


Note...

How many senses does the typical human being have?

5

21



3) Error

...and tails are
away for the father
that to **focus** on the
...his new play
...or fame...

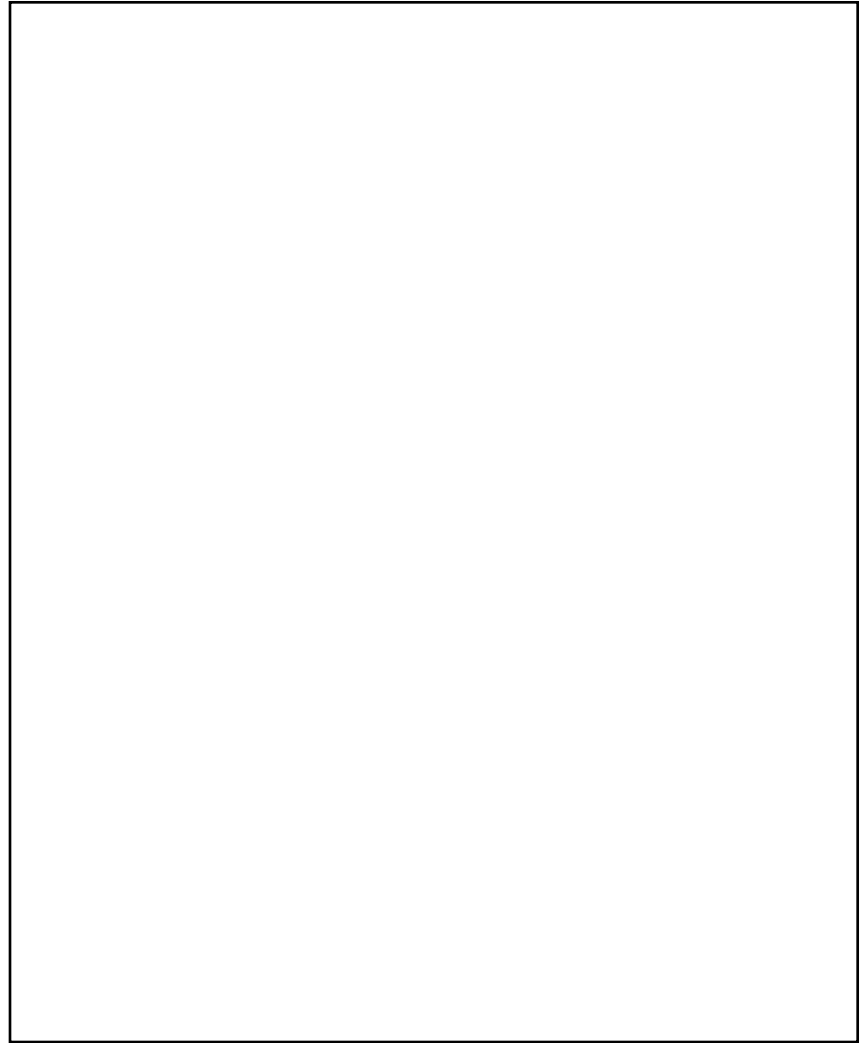
Unless an error is large, it will NOT
activate the error alarm. For this
reason, we need a different way
to activate that alarm.

What could it be?

FEEDBACK!



3 Questions



3 Questions

Where am I going?



3 Questions

Where am I going?

How am I going?

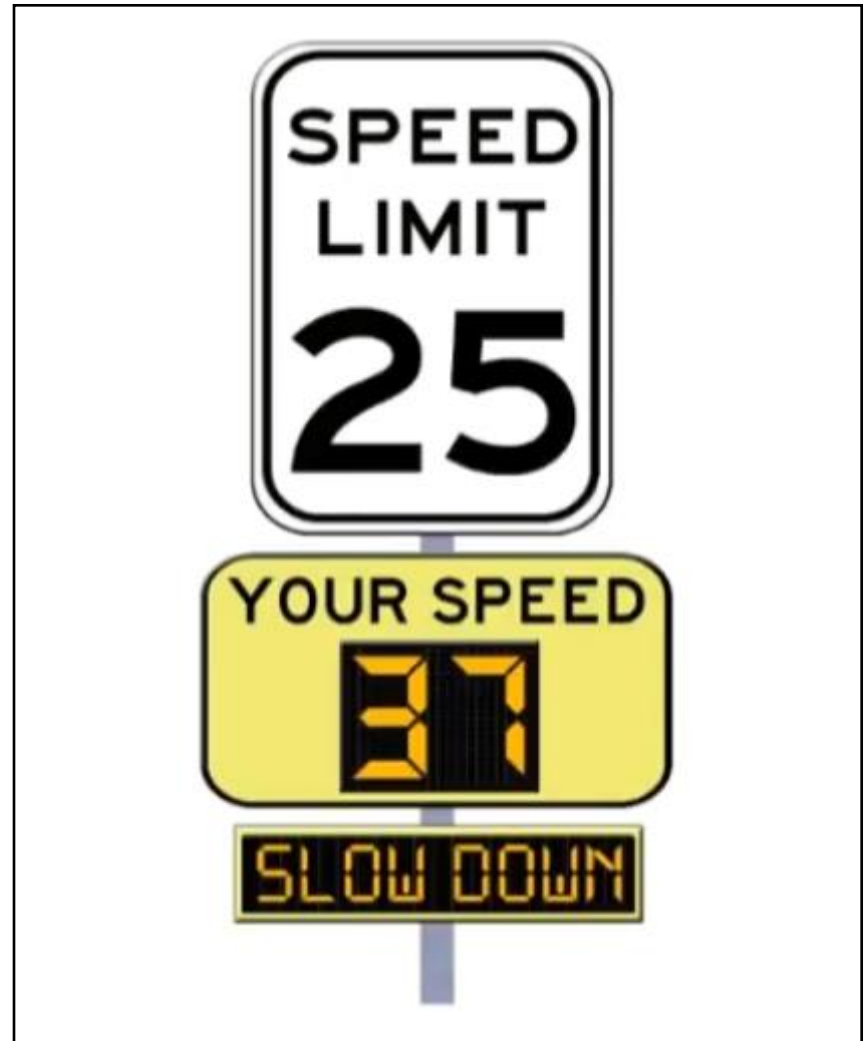


3 Questions

Where am I going?

How am I going?

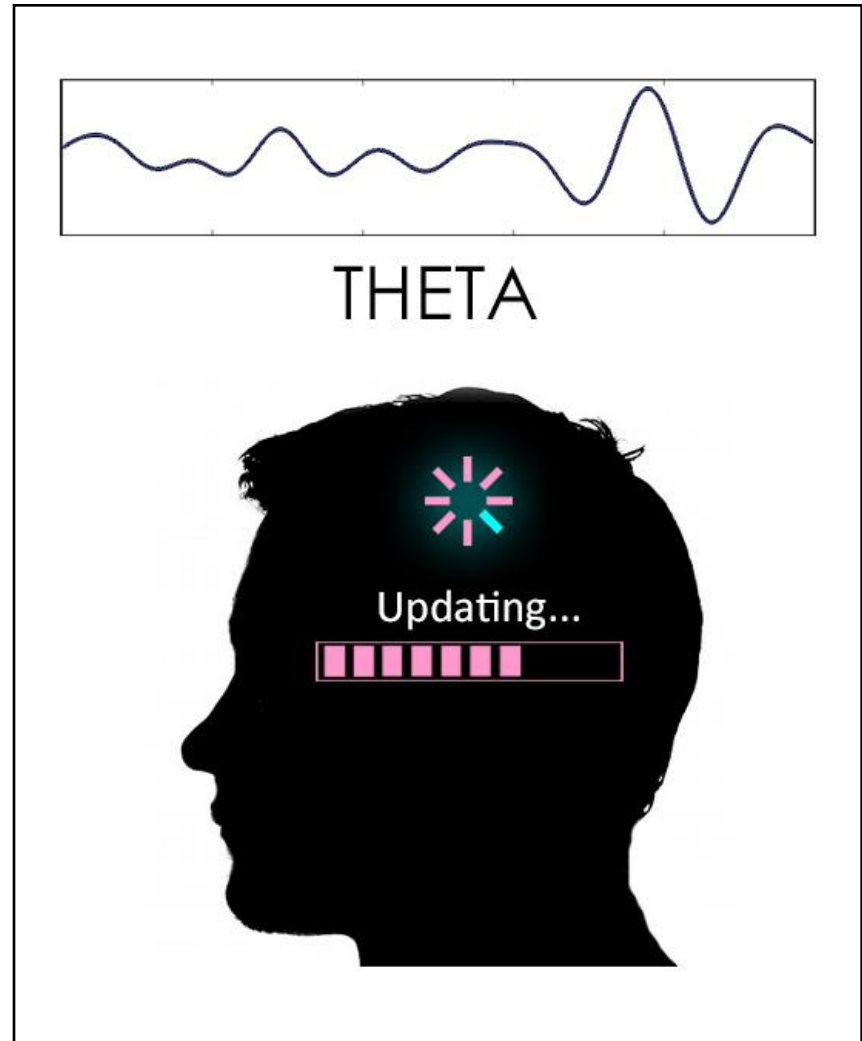
Where to next?



The Choice



Engage



Disengage



So Now Then

Thanks

*Jared.Cooney.Horvath@
gmail.com*

www.lmeglobal.net

