

Welcome to COGS 153: Language Comprehension

Lecture 1

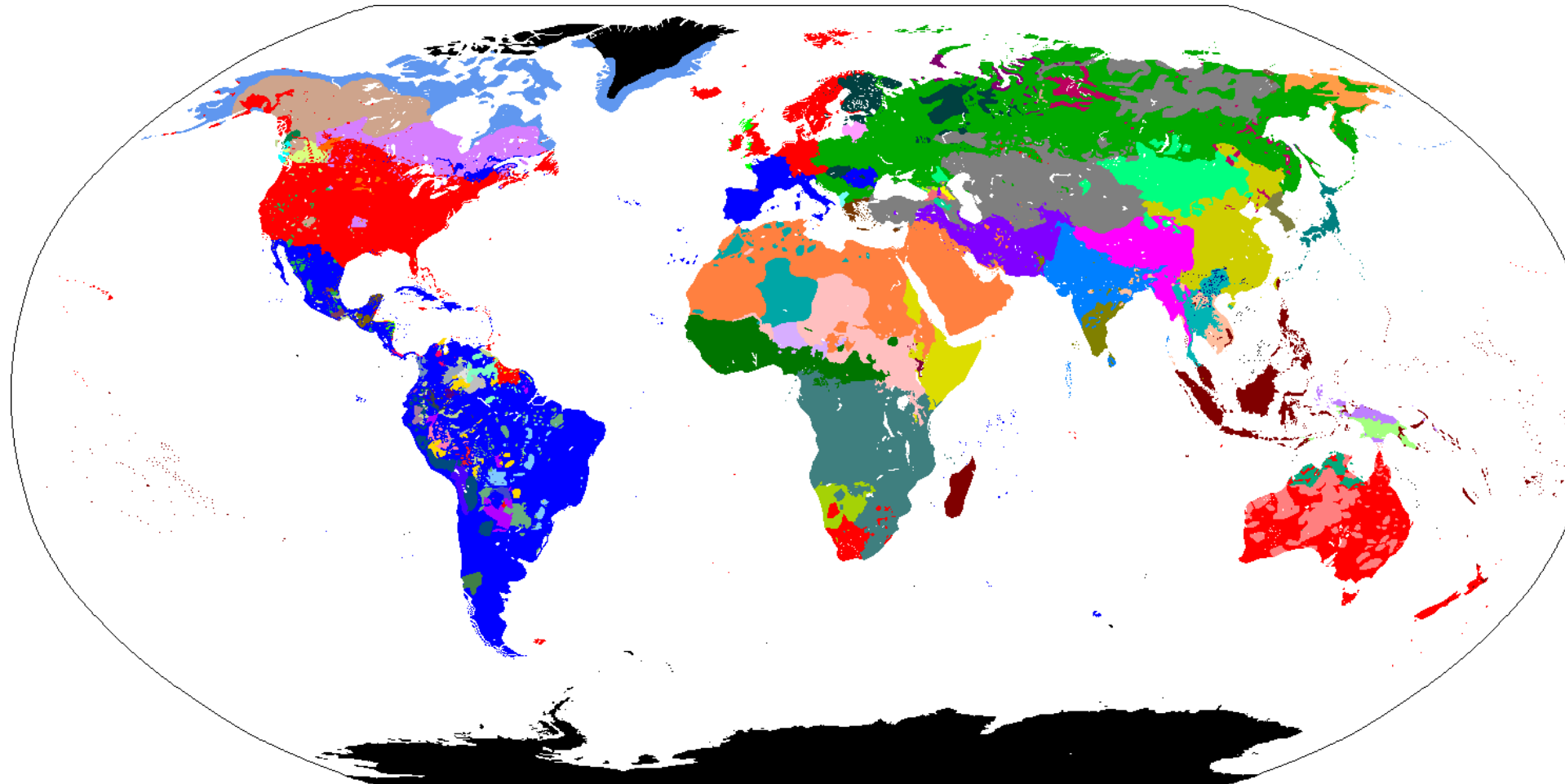
Why study language?

- Language is everywhere
- Learn about human development



- Language is everywhere
- Learn about human development
- Tied to Identity and Culture



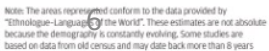


| Human Language Families | |
|---|---|
| <ul style="list-style-type: none"> Uninhabited - Afro-Asiatic <ul style="list-style-type: none"> Berber Chadic Cushitic Omotic Semitic - Algic - Altaic <ul style="list-style-type: none"> Japanese (possibly Altaic) Koreanic (possibly Altaic) Mongolic Tungusic Turkic - American Indian (several families) <ul style="list-style-type: none"> Araucanian Arawakan Arawan Australian (several families) Austro-Asiatic Austronesian Aymaran Barbacoan Basque (isolate) Bora-Witoto Cariban Caspien Chibchan Choco Chukotko-Kamchatkan Dené-Yeniseian Dravidian Eskimo-Aleut Guajibooan Hmong-Mien - Indo-European <ul style="list-style-type: none"> Albanian Armenian Baltic Celtic Germanic Greek Indic Iranian Romance Slavic | <ul style="list-style-type: none"> Jivaroan Kartvelian Khoisan Macro-Jê Mataco-Guaicuru Mayan Misumalpan Niger-Congo Bantu Nilo-Saharan Nivkh (isolate) Papuan (several families) Pama-Nyungan Panoan Pontic Oto-Manguean Quechuan Saliban Salishan - Sino-Tibetan <ul style="list-style-type: none"> Sinitic Tibeto-Burman Siouan Tacanan Tai-Kadai Trans-New Guinea Tsimshianic Tucanoan Tupian - Uralic <ul style="list-style-type: none"> Finno-Ugric Samoyedic Uto-Aztecan Wakashan Yanomaman Yukaghir Zamucuan |

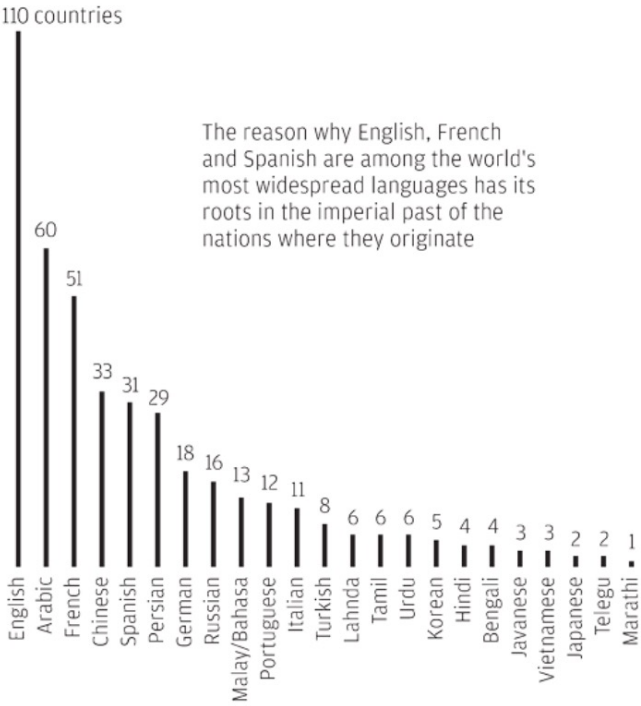
“There are at least 7102 known languages alive in the world today. 23 of these languages are a mother tongue for more than 50 million people. The 23 languages make up the native tongue of 4.1 billion people.

We represent each language within black borders and then provide the numbers of native speakers (in millions) by country.

The color of these countries shows how languages have taken root in many different regions."

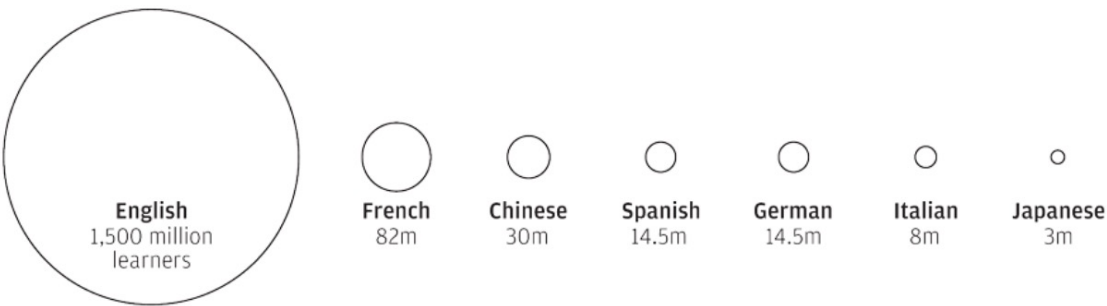


Number of countries in which this language is spoken



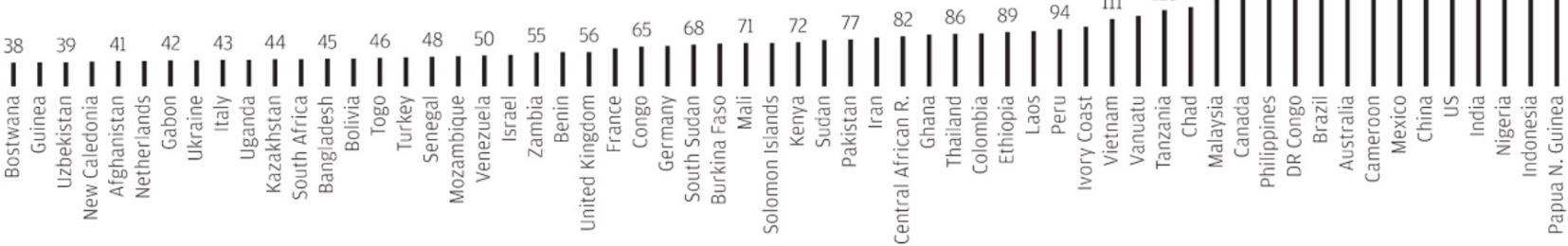
The reason why English, French and Spanish are among the world's most widespread languages has its roots in the imperial past of the nations where they originate

Most popular languages being learned around the world



Distribution of living languages by country

The total count of living languages used as a first language in 60 countries



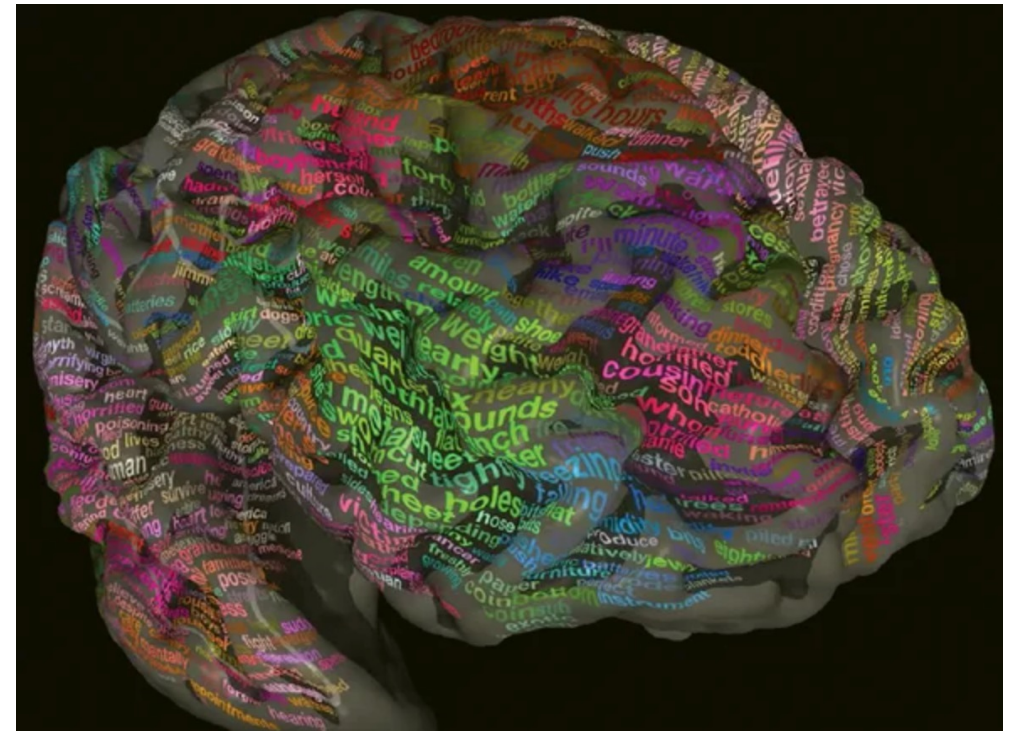
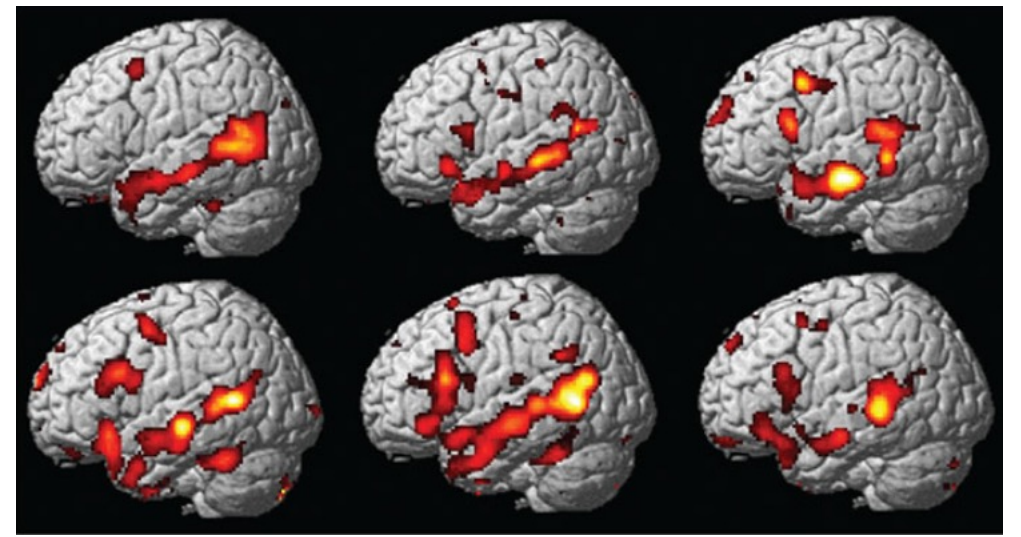
Sources: Ethnologue-Languages of the World, CIA-US, Unesco, United Nations, University of Düsseldorf, The Washington Post

SCMP Graphic: Alberto Lucas López

- Language is everywhere
- Learn about human development
- Tied to Identity and Culture
- Learn from linguistic diversity
- Conservation of endangered languages
- Improve how we learn new languages



- Language is everywhere
- Learn about human development
- Tied to Identity and Culture
- Learn from linguistic diversity
- Conservation of endangered languages
- Improve how we learn new languages
- Uncover complex cognitive processes in the brain
- Develop therapy options for people with impaired language abilities



Aims of the course

We will...

- Identify major topics of research, questions of debate, and working theories in the study of language comprehension
- Recognize and use appropriate technical vocabulary to describe concepts in the cognitive science of language
- Learn about the methods and experimental techniques used in language research
- Summarize and interpret classic and recent empirical findings from the field

Aims of the course

More generally, we aim to:

- Think critically about the information presented
- Practice integrating new knowledge with concepts previously learned from other courses
- Be curious and ask questions
- Have thoughtful discussions with peers & gain self-confidence
- Learn something interesting :-)

Teaching Team

Instructor: Tania Delgado (tadelgad@ucsd.edu)
Office hours: Wednesdays at 4pm

Tania (tawn-yah), she/her
PhD student in Cog Sci

Research interests: neurolinguistics, evolution of language & cognition, multimodal communication

BS in Neurobiology & Physiology (University of Maryland, College Park)
MSc in Linguistics (University of Edinburgh)



Teaching Team

TA: Harshada Yadav (hyadav@ucsd.edu)
Office hours: Mondays at 10am

Harshada, she/her
- PhD student in Cog Sci

Research interests: conceptual representations, semantics, EEG



Course Components

| Workshop Participation | Homework | Quizzes | Course Reflection Essay | Final Project | Extra Credit | 98 - 100% A+ 93 - 97% A 90 - 92% A- 87 - 89% B+ 83 - 86% B 80 - 82% B- 77 - 79% C+ 73 - 76% C 70 - 72% C- 60 - 69% D Below 60% F |
|------------------------|------------------|------------------|-------------------------|---------------|--------------|--|
| 10% (2% x 5) | 30% (10% x 3) | 30% (10% x 3) | 5% | 25% | 2% | |

Course Components

- Quizzes
 - 3 quizzes, 10 questions each
 - Window to start quiz will be open from Fridays until Mondays
 - 30min to complete
- Course Reflection Essay
 - Short essay to reflect on what you've learned and give feedback
 - written informally
- Final Project
 - Experiment proposal
 - Individually or in groups

Our Canvas homepage

Summer II 2024

Home

Announcements

Zoom

Piazza

Grades

Assignments

Quizzes

People

Modules

Syllabus

Academic Support


Academic Integrity



Library Resources



Media Gallery



Collapse All

▼ Syllabus & Class Resources

 **Syllabus & Schedule**

 [Pre-class Survey](#) 

 [Sign-up sheet for Project Groups](#) 

 [Methods Guide](#) 

▼ Week 1

Lecture Slides

Homework

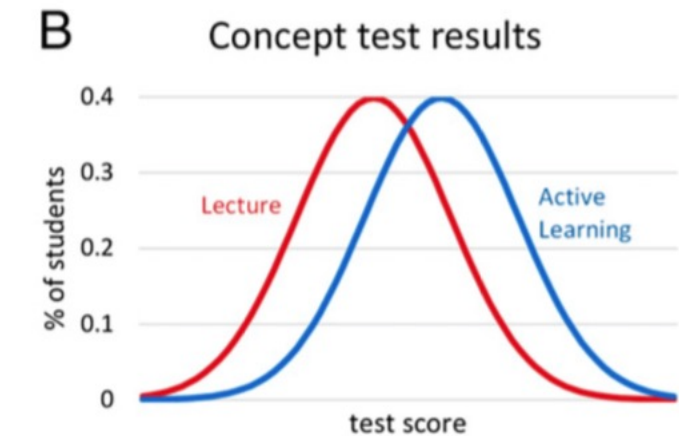
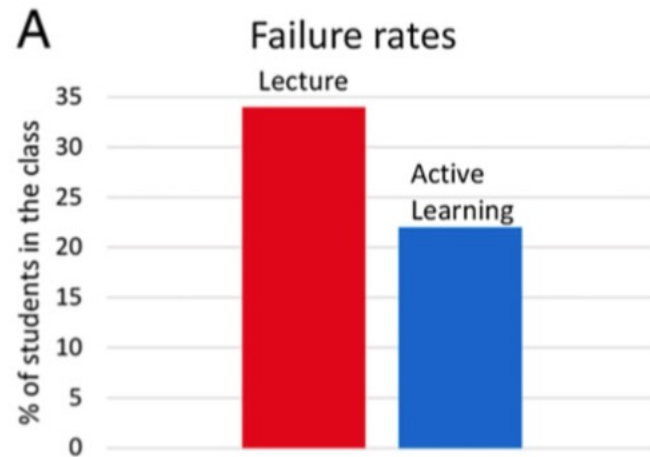
- Homework 1: Annotated Bibliography
 - Completed individually
- Homework 2: Forming a Research Question
 - Can be completed individually or in groups
- Homework 3: Designing an Experiment
 - Can be completed individually or in groups
- Homework designed to help with final project

Workshops – at 5pm!

1. How to read & write a scientific article
 2. How to form & motivate a research question
 3. How to design an experiment
 4. How to visualize & interpret results
 5. Peer Feedback on final project drafts
- Workshops designed to help with homework/final project
 - Check syllabus for specific dates
 - Half credit for submitting workshop activity without attendance
 - email instructor if you have a documented need to complete workshop asynchronously

Why active learning?

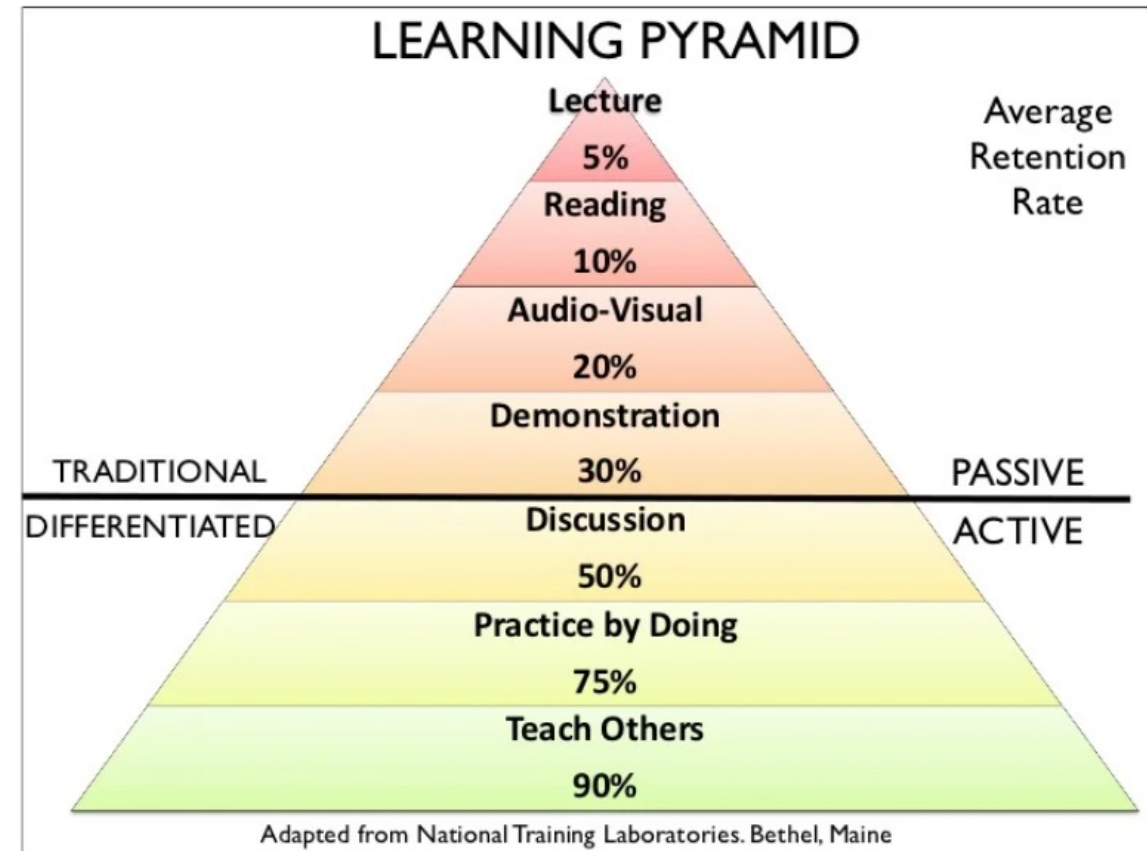
- Because active learning leads to better learning outcomes!



Why active learning?

Types of activities that support engaged learning include...

- In-class discussions
 - Peer instruction
 - Surveys of opinions
 - Videos
 - Use of images and/or artifacts
 - Brainstorming
-
- Workshops will promote discussion, practice by doing, & teaching others!



Course schedule

| Week | Day | Lecture # | Topic | Assignment Due |
|------|----------|-----------|---|---------------------------------------|
| 1 | Mon 8/5 | 1 | Course Introduction | |
| | | 2 | Concepts & Categorization | |
| | | 3.1 | Embodiment, Pt 1 | |
| | Wed 8/7 | 3.2 | Embodiment, Pt 2 | |
| | | 4 | Understanding Abstract Concepts | |
| | | 5 | Framing | |
| 2 | Mon 8/12 | | 5pm Workshop: Dissecting Research Articles | Quiz 1 |
| | | 6 | Co-speech Gesture | |
| | | 7 | Linguistic Relativity | |
| | Wed 8/14 | 8 | Speech Perception & Word Recognition | |
| | | 9 | Sentence Processing | |
| 3 | Mon 8/19 | | 5pm Workshop: Forming a Research Question | Quiz 2 HW1: Annotated Bibliography |
| | | 10 | Bilingualism | |
| | | 11 | Language Development | |
| | Wed 8/21 | 12 | Communication Disorders | |
| | | 13 | Individual Differences | |
| 4 | Mon 8/26 | | 5pm Workshop: Designing an Experiment | Quiz 3 HW2: Research Question |
| | | 14 | Joke Comprehension | |
| | | 15 | Language processing in Schizophrenia, Aphantasia, & Synesthesia | |
| | Wed 8/28 | | 5pm Workshop: Visualizing Results | HW3: Experiment Design |
| | | 16 | Large Language Models | |
| | | | 1-on-1 meetings | |
| 5 | Mon 9/2 | | Labor Day Holiday – No Class | |
| | Wed 9/4 | | 5pm Workshop: Rubric & Peer Feedback Activity | |
| | | | 1-on-1 meetings | |
| | Sat 9/7 | | | Final Project |
| | Sun 9/8 | | | Course Reflection Essay |

1-on-1 meetings

- between individual/group and an instructor
- get feedback on experiment ideas
- optional to sign-up for, but strongly recommended