

- **What to remember about language**
- **Linguistic research today**

# 1. We all have a *mental grammar*

- Whether our native language is a 'standard' variety or another variety, we all have a **mental grammar** whose rules and principles accounts for the systematic patterns in our language behavior

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- Example of systematic behavior of native speakers of English: How is the plural pronounced?

*cat*[s]

*dog*[z]

*iguana*\_\_

*shark*\_\_

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- Example of systematic behavior of native speakers of English: How is the plural pronounced?

*cat*[s]

*dog*[z]

*iguana*[z] — **voiced** after **voiced** sounds

*shark*[s] — **voiceless** after **voiceless** sounds

- Now that we have studied linguistic analysis, what can we say about this example?  
What does it show?

# 1. We all have a *mental grammar*

- What does this example show?
- Plurals of (regular) nouns in English are formed by adding a suffix
  - The mental grammar **builds words by rule** out of smaller elements (morphology!)
- The pronunciation of the suffix depends on the sound properties of the last sound in the base
  - The mental grammar refers to **sound properties** and **natural classes** (phonology!)
  - Speech sounds are not indivisible atoms

# 1. We all have a *mental grammar*

- Example of systematic behavior of native speakers of English: The interpretation of reflexive pronouns

*Oscar admires himself.*

*Oscar thinks that Grover admires himself/\*himself*

*Oscar told Susan stories about himself.*

*Oscar told Susan stories about herself.*

- Now that we have studied linguistic analysis, what can we say about this example?  
What does it show?

# 1. We all have a *mental grammar*

- What does this example show?
- The mental grammar produces sentences as **hierarchical tree structures** that contain words grouped together into **constituents** (syntax!)
  - Rules of the mental grammar (such as where a reflexive pronoun may find its antecedent) refer to constituents

## 2. Types of linguistic research today

- This section of the slides is FYI only, and will not be on the exam
- The goal is to give you a sense of what kinds of projects linguistics researchers typically do



## 2. Types of linguistic research today

**Typological** research: What kinds of patterns are found in the world's languages?

- Example: The World Atlas of Language Structures (WALS) — You can generate maps that show the **frequency** and **geographical distribution** of various language characteristics
  - Languages that do and do not use **voicing** to distinguish stop ('plosive') or fricative phonemes [[map](#)]
  - Languages that do and do not apply the **Wh Movement** transformation [[map](#)]

## 2. Types of linguistic research today

### **Experimental** research:

- Field work: Go out, record language data (naturalistic or elicited), analyze patterns
- Laboratory: Have experiment participants produce or perceive language data under experimental conditions
  - Examples of perception experiments (phonetics/phonology research):  
[ [#1](#) ] [ [#2](#) ]

## 2. Types of linguistic research today

**Computational** research: Use computers to...

- Analyze very large data sets
  - Example of corpus/computational studies in historical syntax [ [slides](#) ]
- Build and test complex models of mental grammar
- Gather, as well as analyze, linguistic data
  - Try a mini-experiment: [Google Ngrams](#) for

*really fun*      *so fun*  
*very fun*      *funnest*

(Is *fun* a N, or an A, or something unexpected? Change in progress!)

## 2. Types of linguistic research today

### **Theoretical** research:

- Take the results of any of the above methods and make **proposals about mental grammar** that allow us to account for those facts about language

## 2. Types of linguistic research today

- Some of the courses you can take in the Linguistics department at UNC-CH
  - Almost all of them have LING 101 as their only prerequisite
  - Note: Next Monday I will highlight a few courses for Spring 2021

### 3. Final words

- The most important things to remember:

Observable human language behavior is caused by the operation of a **mental grammar**

**All language varieties** have a mental grammar

- Keep these points in mind when thinking about...
  - Learning or teaching a foreign language
  - Children acquiring their language
  - The role of non-standard varieties in society
  - **etc., etc.**