In a Manner of Speaking...

An Intro to Linguistics
WELCOME!!!!
WELCOME!!!!

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We like CS and Linguistics!!
WELCOME!!!!

This class comes to you in two parts:
WELCOME!!!!

This class comes to you in two parts:

1. CRASH COURSE Linguistics
WELCOME!!!!

This class comes to you in two parts:

1. CRASH COURSE Linguistics
2. Discussions
Overview of Linguistics:
Overview of Linguistics:
From here:

“pigeon”
To here:

“pigeon”
But there's a lot in between...
But there’s a lot in between...
But there’s a lot in between...
But there’s a lot in between...

The pigeon ate my homework
But there’s a lot in between...
But there’s a lot in between...
But there's a lot in between...
But there's a...
Let's talk Lego instead
Let's talk Lego instead
Let's talk Lego instead
Let's talk Lego instead
Let's talk Lego instead
Let's talk Lego instead
Let's talk Lego instead
Let's talk Lego instead
Let's talk Lego instead

PHONOLOGY
Phonology
Phonology - The Sounds We Make
Phonology - The Sounds We Make

- Phonemes - individual sounds that make up the words we have
Phonology - The Sounds We Make

- Phonemes - individual sounds that make up the words we have
- Phonemes vary between languages
Phonology - The Sounds We Make

- Phonemes - individual sounds that make up the words we have
- Phonemes vary between languages
Let's talk Lego instead
Let's talk Lego instead

PHONOLOGY

MORPHOLOGY
Morphology - How Words Form
Morphology - How Words Form

- Morphemes - Parts of words
  - Stem/Root
  - Suffix
  - Prefix
  - Plural
Morphology - How Words Form

- Morphemes - Parts of words
  - Stem/Root
  - Suffix
  - Prefix
  - Plural

$\text{DOG} + S = \text{DOGS}$
Morphology - How Words Form

- Morphemes - Parts of words
  - Stem/Root
  - Suffix
  - Prefix
  - Plural

\[ \text{DOG} + \textcolor{blue}{S} = \text{DOGS} \]
Let's talk Lego instead
Let's talk Lego instead

PHONOLOGY

MORPHOLOGY

SYNTAX
Syntax
Syntax - How Words are Organized
Syntax - How Words are Organized

- Grammar
- Syntactic trees
Syntax - How Words are Organized

- Grammar
- Syntactic trees

```
S
  /\   __________
 NP  /       \  VP
 /     \   /     \  \
 Det N   V   NP
  \    \  /      /  \
    \  The pigeon ate my homework
```
Let's talk Lego instead
Let's talk Lego instead
Semantics
Semantics - Organization Leads to Meaning
Semantics - Organization Leads to Meaning

- Follow meanings up the tree:
Semantics - Organization Leads to Meaning

- Follow meanings up the tree:
Semantics - Organization Leads to Meaning

- Follow meanings up the tree:
Semantics - Organization Leads to Meaning

- Follow meanings up the tree:
Semantics - Organization Leads to Meaning

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Semantics - Organization Leads to Meaning

- Follow meanings up the tree:

```
 Det | S | VP 
   V |   |   
```

The pigeon ate my homework.
Semantics - Organization Leads to Meaning

- Follow meanings up the tree:
Semantics - Organization Leads to Meaning

● Follow meanings up the tree:

The pigeon ate my homework
Semantics - Organization Leads to Meaning

- Follow meanings up the tree:

"The pigeon ate my homework"
Semantics - Organization Leads to Meaning

- Follow meanings up the tree:
Semantics - Organization Leads to Meaning

- Follow meanings up the tree:
Let's talk Lego instead
Let's talk Lego instead

PHONOLOGY

MORPHOLOGY

SEMANTICS

SYNTAX

PRAGMATICS
PRAGMATICS
PRAGMATICS - Context Matters
PRAGMATICS - Context Matters

- The same sentence can have different meanings:
PRAGMATICS - Context Matters

- The same sentence can have different meanings:
  
  - “The dog ate my homework”
  - “The pigeon ate my homework”
PRAGMATICS - Context Matters

- The same sentence can have different meanings:

  “The pigeon ate my homework”
PRAGMATICS - Context Matters

- The same sentence can have different meanings:

  “The pigeon ate my homework”
PRAGMATICS - Context Matters

The same sentence can have different meanings:
Let's talk Lego instead
Discussion Time!
But First
But First - Mind the Penguin!
And Also
And Also

THERE ARE NO RIGHT ANSWERS!!!!!!!!
And Also

THERE ARE NO RIGHT ANSWERS!!!!!!!!

(Seriously)
OK, Let’s go
Syntactic Ambiguities
1. They mentioned the secret village in the forest.

2. The monkey ate the book on the table in the cage.

3. We didn’t eat in San Francisco because the restaurants there are expensive.

From Boris Horizinov’s Linguist 21N
Crash Blossoms
1. “Violinist Linked to JAL Crash Blossoms”
1. “Violinist Linked to JAL Crash Blossoms”
2. “Gator attacks puzzle experts”
1. “Violinist Linked to JAL Crash Blossoms”
2. “Gator attacks puzzle experts”

1. “Violinist Linked to JAL Crash Blossoms”
2. “Gator attacks puzzle experts”
4. “Police find jaguars running back asleep inside car sinking into pond”
<table>
<thead>
<tr>
<th></th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>“Violinist Linked to JAL Crash Blossoms”</td>
</tr>
<tr>
<td>2.</td>
<td>“Gator attacks puzzle experts”</td>
</tr>
<tr>
<td>4.</td>
<td>“Police find jaguars running back asleep inside car sinking into pond”</td>
</tr>
<tr>
<td>5.</td>
<td>“Eighth Army Push Bottles Up Germans”</td>
</tr>
</tbody>
</table>

1. “McDonald’s Fries the Holy Grail for Potato Farmers”
2. “British Left Waffles on Falklands.”
3. “Squad Helps Dog Bite Victim”
4. “Red Tape Holds Up New Bridge”
5. “Trump Doctor: No heart, cognitive issues found”
Gricean Maxims
Gricean Maxims
How to Converse Cooperatively

- Quality: Say what is true
- Quantity: Say enough to be informative
- Relevance: Don’t give unnecessary information
- Manner: “Avoid unnecessary prolixity”
How to Converse Cooperatively

- Quality: Say what is true
- Quantity: Say enough to be informative
- Relevance: Don’t give unnecessary information
- Manner: Avoid unnecessary prolixity
How to Converse Cooperatively - Quality

- “Yeah, well that’s just great”
- “You’ll win a Nobel Prize — in your dreams!”

From Chris Pott’s Linguist 130A Handouts
How to Converse Cooperatively - Quality

When is it ok to not tell the literal truth?
How to Converse Cooperatively - Quality

When is it ok to not tell the literal truth?

- “Yeah, well that’s just great”
- “You’ll win a Nobel Prize — in your dreams!”
How to Converse Cooperatively - Quantity
How to Converse Cooperatively - Quantity

A: “Do you know the time?”
How to Converse Cooperatively - Quantity

A: “Do you know the time?”
B: “Yes.”
How to Converse Cooperatively - Quantity

A: “Do you know the time?”
B: “Yes.”

Is this ever an ok response? When or why not?

From Chris Pott’s Linguist 130A Handouts
How to Converse Cooperatively - Relevance
How to Converse Cooperatively - Relevance

Police: “Have you seen the criminal”
B: “Yes. He went that way. My brother is having a BBQ tomorrow”
How to Converse Cooperatively - Relevance

Police: “Have you seen the criminal”
B: “Yes. He went that way. My brother is having a BBQ tomorrow”

What’s wrong with this?
How to Converse Cooperatively - Manner

“The opera singer produced a series of sounds closely corresponding closely with the notes of the aria”
How to Converse Cooperatively - Manner

“The opera singer produced a series of sounds closely corresponding closely with the notes of the aria”

What does this say about the opera singer?
Irony and Sarcasm
1. The movie was so good!
2. The movie was sooooo good.
3. The movie was so good.
1. The movie was so good!
2. The movie was sooooo good.
3. The movie was so good. □

How are these different? Why does this work?
Classification of Adjectives
Types of Adjectives

SKILLFUL SPY vs. FAKE SPY
Types of Adjectives

SKILLFUL vs. FAKE SPY

From Chris Pott’s Linguist 130A Handouts
Types of Adjectives

**SKILFUL** vs. **FAKE**

From Chris Pott’s Linguist 130A Handouts
Types of Adjectives

SKYFUL vs. FAKE

From Chris Pott’s Linguist 130A Handouts
Types of Adjectives

SKILLFUL SPY vs. BLUE SPY
Types of Adjectives

SKILLFUL vs. BLUE

THINGS THAT ARE BLUE
Types of Adjectives

SKILLFUL

SPY

THINGS THAT ARE BLUE

THINGS THAT ARE SPIES

From Chris Pott’s Linguist 130A Handouts
Types of Adjectives

SKILLFUL

SPY

vs.

THINGS

THAT

ARE

BLUE

THINGS

THAT

ARE

SPIES

BLUE SPIES = Things that are BLUE and SPIES

From Chris Pott’s Linguist 130A Handouts
Types of Adjectives

THINGS THAT ARE SKILLFUL

THINGS THAT ARE BLUE

THINGS THAT ARE SPIES

From Chris Pott’s Linguist 130A Handouts
Types of Adjectives

- Things that are blue
- Things that are spies
- Things that are skillful

From Chris Pott’s Linguist 130A Handouts
Types of Adjectives

THINGS THAT ARE SKILLFUL

THINGS THAT ARE SPIES

THINGS THAT ARE BLUE

THINGS THAT ARE SPIES

SKILLFUL SPIES = Things that are SKILLFUL and SPIES?
Types of adjectives

THINGS
THAT
ARE
SKILLFUL

THINGS
THAT
ARE
SPIES

THINGS
THAT
ARE
BLUE

THINGS
THAT
ARE
SPIES

SKILLFUL SPIES = Things that are SKILLFUL and SPIES
Types of Adjectives

THINGS THAT ARE SPIES

SKILLFUL SPIES = SPIES that are SKILLFUL

THINGS THAT ARE BLUE

THINGS THAT ARE SPIES

From Chris Pott’s Linguist 130A Handouts
Types of Adjectives

ALLEGED

SPY???
Types of Adjectives

LARGE LION vs. STONE LION

From Chris Pott’s Linguist 130A Handouts
Types of Adjectives

FAKE GUN vs. TOY GUN vs. WATER GUN

From Chris Pott’s Linguist 130A Handouts
Types of Adjectives

- Intersective (ex: Blue)
- Subsective (ex: Skillful)
- Nonsubsective (ex: Alleged)
- Privative (ex: Fake?)
Intersective

BLUE SPIES = Things that are BLUE and SPIES
SKILLFUL SPIES = SPIES that are SKILLFUL
Nonsubsective

ALLEGED SPIES = Things that MIGHT be SPIES
Privative

THINGS THAT ARE SPIES

FAKE SPIES = Things that are NOT SPIES
Privative

FAKE SPIES = Things that are NOT SPIES (probably)
Presuppositions
Mind the presup...

- “Do you want to go swimming? We do, too.”
- “Have you done your homework yet?”
- “Did you know your home is at risk?”
Mind the *different* presupps...

- “My dog ate my homework.”
- “My aardvark ate my homework.”
- “My dad ate my homework.”
Speech Acts
Types of Sentences

- Declarative — Statements
Types of Sentences

- Declarative — Statements
- Interrogative — Questions
Types of Sentences

- Declarative — Statements
- Interrogative — Questions
- Imperative — Commands
Types of Sentences - Declarative

- I am a pigeon.
- I hope you have a good time.
- I was wondering if you might be able to do me a favor.
Types of Sentences - Interrogative

- Can you pass me the salt?
- Do you want to get ice cream?
- Would you mind doing me a favor?
Types of Sentences - Imperative

- Do your homework!
- Get well soon!
- Please rain today!
A Closing Note: Cheeseburgers
German:
German:

“-er” = Sandwich from
German:

“-er” = Sandwich from

“Ich bin ein Berliner”
German:

“-er” = Sandwich from

“Ich bin ein Berliner”
German: “Berlin” =

=
German:

“Berliner” =  =

“Frankfurter” =  =
German: “Berliner” = "Frankfurter" = "Hamburger" =
English:  "ham" = MEAT
English: “ham” = MEAT
English:

“ham” = MEAT

ham-burger = MEAT-burger
English:

“ham” = MEAT

ham-burger = MEAT-burger
English:

“ham” = MEAT

“burger” = type of sandwich
(type of burger goes before)

ham-burger = MEAT-burger
English:

“ham” = MEAT

ham-burger = MEAT-burger

“burger” = type of sandwich
(type of burger goes before)

cheeseburger = “type of sandwich” with cheese
English:

“ham” = MEAT

ham-burger = MEAT-burger

“burger” = type of sandwich
(type of burger goes before)

cheeseburger = “type of sandwich” with cheese
English:  cheeseburger =
English: cheeseburger =

German: cheeseburger =

???
Wait
Wait

It Gets Better...
Wait

It Gets Better...
Portuguese: "X" = "xis"
Portuguese: “X” = “xis” sounds like
Portuguese: “X” = “xis” sounds like Cheeseburger = X-burger
Portuguese: “X” = “xis” sounds like

Cheeseburger = X-burger

(type of thing goes after)
Portuguese: "X" = "xis" sounds like cheeseburger = X-burger

(type of thing goes after)

Baconburger
Portuguese:  "X" = "xis" sounds like Cheeseburger = X-burger
(type of thing goes *after*)

Baconburger = X-bacon
Portuguese: “X” = “xis” sounds like

Cheeseburger = \( \text{X}-\text{burger} \)

(type of thing goes after)

Baconburger = \( \text{X}-\text{bacon} \)

“Everything” burger
Portuguese: “X” = “xis” sounds like

Cheeseburger = X-burger

(type of thing goes after)

Baconburger = X-bacon

“Everything” burger = X-tudo
Portuguese:  “X” = “xis” sounds like

Cheeseburger = X-burger
(type of thing goes after)

Baconburger = X-bacon

“Everything” burger = X-tudo
German: hamburger = Hamburg
German: hamburger =

Portuguese: X-tudo =
German: hamburger = ???
Portuguese: X-tudo = ???
German: hamburger
Portuguese: ???
German: Hamburg
Portuguese: X-Burger
And with that...
Lunchtime!!!