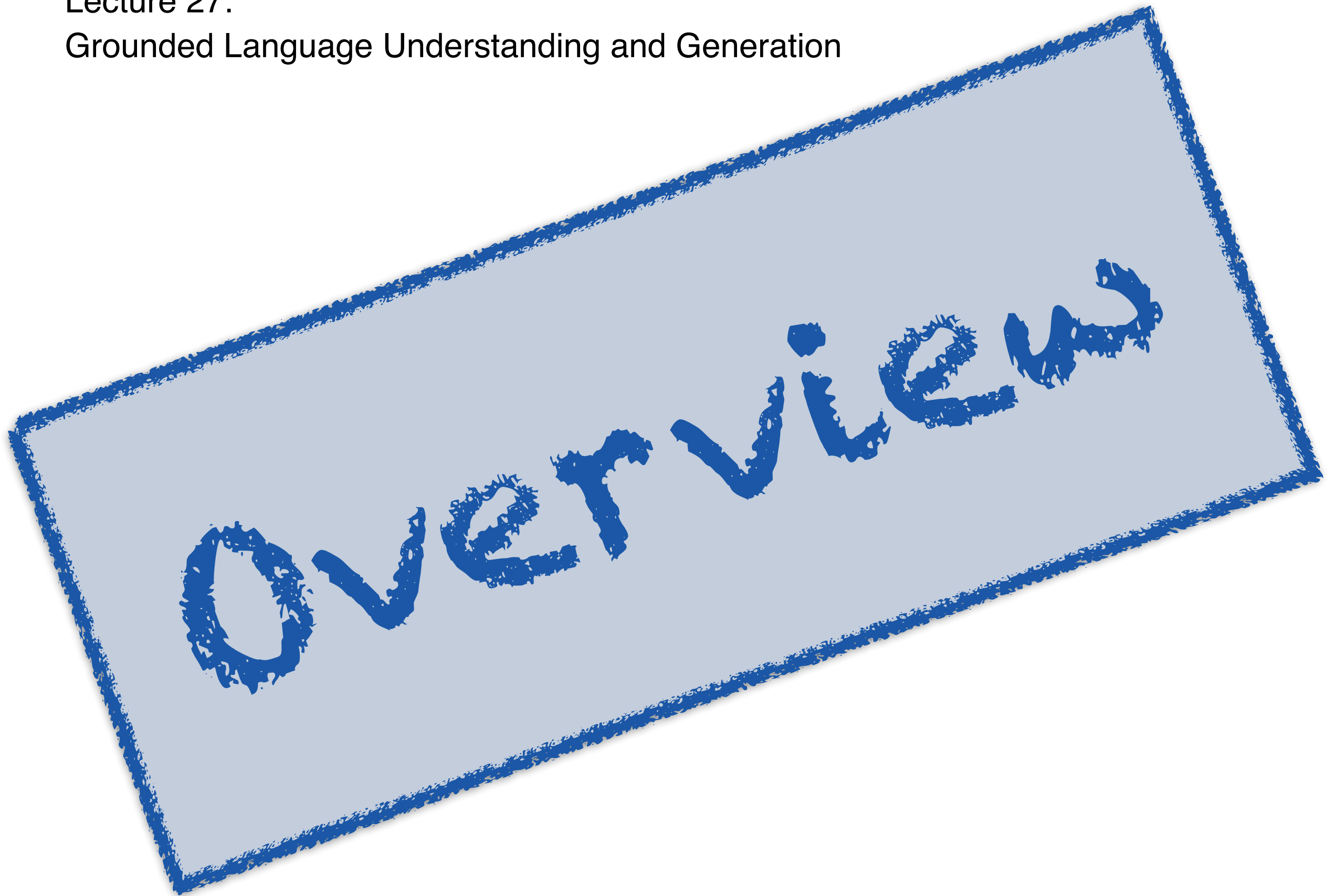


Lecture 27:
Grounded Language Understanding and Generation



Today's lecture

We're almost at the end of the semester, so...

... I'd like to take a step back

... and I'm going to talk about my own research



What is language understanding?

The ability to...

... draw (logical/commonsense) inferences:

Example: Entailment recognition

... connect language to the world:

Example: Image Description

... communicate with others to perform a task

Example: Grounded dialogue

for instruction giving and following



Language understanding as the ability to draw inferences

People are shopping
in a supermarket

They are sitting at desks.
They are walking
on the street.
They are buying clothes.
They are at home.

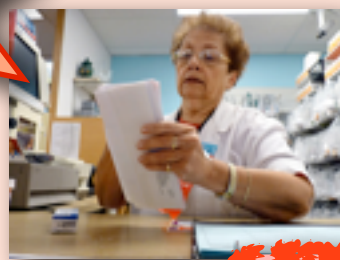
No

They are standing or walking.
They are pushing
shopping carts.
They are in an indoor space.
There are aisles of shelves

Yes

Language understanding as the ability to describe the world

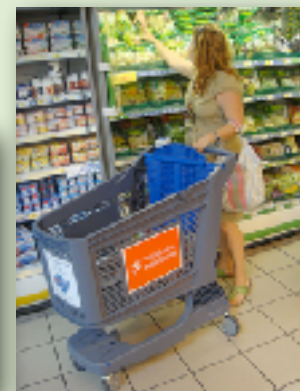
People are shopping in a supermarket



No



Yes



Language understanding as the ability to give or follow instructions

<Architect> Perfect, just make them both 1 block taller

