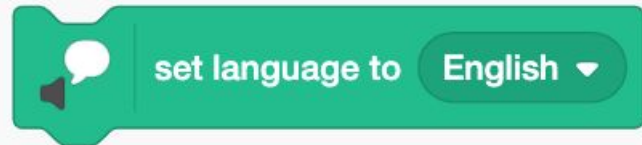
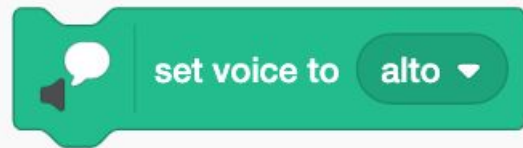
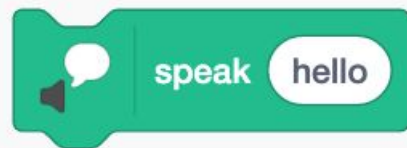


The background is a vibrant blue with a pattern of lighter blue, wavy, organic shapes. Several stylized hands are shown using various tools: a yellow hand holds a blue glue gun in the top left; a yellow hand holds silver scissors in the top right; a yellow hand holds a stapler in the middle right; a yellow hand holds a stapler in the bottom left; and a pink hand is shown in the bottom right with motion lines, suggesting movement or a gesture.

SCRATCH + AI = ???

AI Extensions: Text to Speech try it (in production)

Text to Speech



GREEN

- Fun, simple, expressive

RED

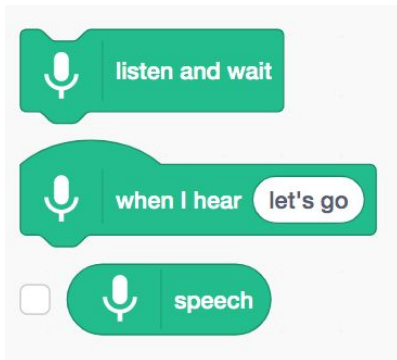
- none?

YELLOW

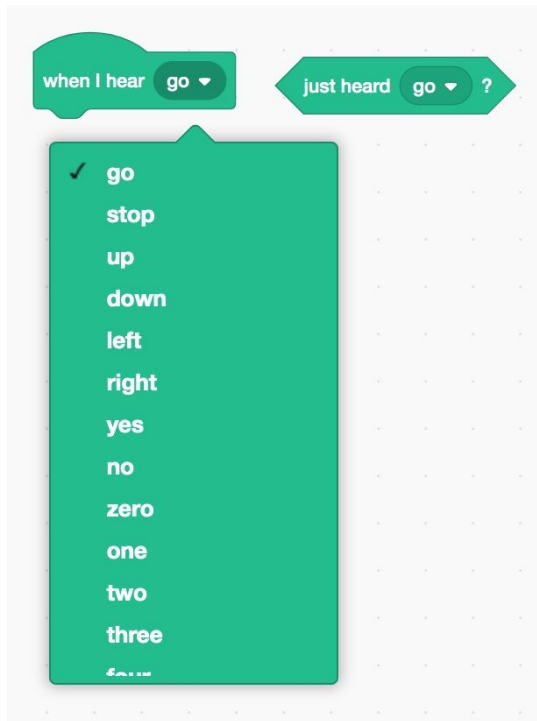
- Lifelike voice sets high expectations, so may be disappointing if pronunciation or prosody is not what you expect
- Speaks many languages (23), but this is only about half of all languages supported by Scratch

AI Extensions: Speech to Text cloud prototype (not working), local prototype

Cloud version



Local version



GREEN

- Speech recognition is fun and magical

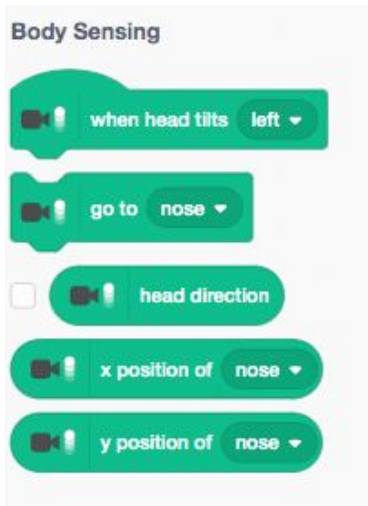
RED

- Cloud version is super expensive, and there are privacy concerns
- Local version is English-only, and creating data sets in other languages is a major effort

YELLOW

- Does a small set of speech commands (local version) open up enough creative possibilities?

AI Extensions: Body Sensing prototype



GREEN

- Great creative play!
- Simple

RED

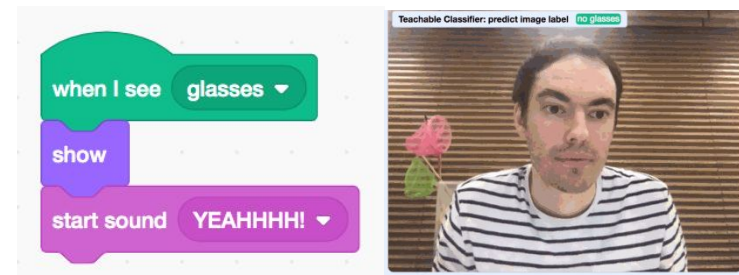
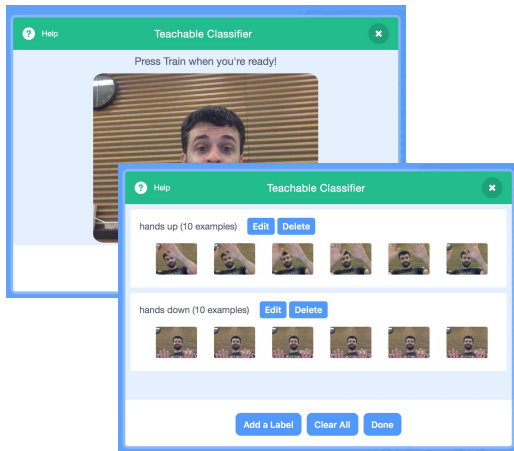
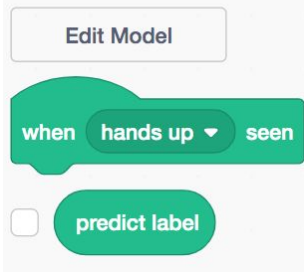
- Confused by multiple people
- Algorithmic Bias?
- Should be face only?

YELLOW

- More hat blocks?
 - Mouth opened/closed
 - Eyes opened/closed
- What to do about multiple people?

AI Extensions Teachable Classifier prototype

Teachable Classifier



GREEN

- Great creative play
- Learn about machine learning by training it!

RED

- Algorithmic bias?
- Complicated to use
- Complicated to support
- No default behavior
- Probably not reusable or shareable

YELLOW

- Can we make it reusable? Shareable?
- Understandable?
- Should we add training using blocks?