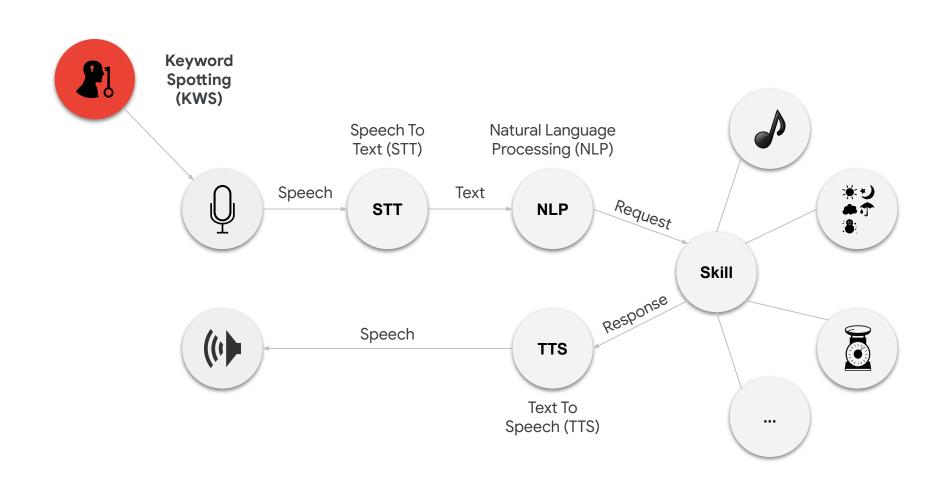
What is Keyword Spotting?

Keyword Spotting v. General Speech Recognition

- Keyword spotting is one of the most successful examples of TinyML
 - Low-power, continuous, on-device
 - Common Voice SWTS expands keyword spotting to more languages

Keyword Spotting v. General Speech Recognition

- Keyword spotting is one of the most successful examples of TinyML
 - Low-power, continuous, on-device
 - Common Voice SWTS expands keyword spotting to more languages
- General ASR still requires larger, power-hungry models
 - But it can run on mobile devices (offline dictation on smartphones)











What else can **TinyML** do with audio data?

Now Playing by Google



What are we going to learn?



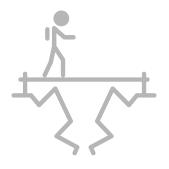




Challenges with Keyword Spotting The Keyword Spotting ML Pipeline

Hands-on training of a Keyword Spotting Model

What are we going to learn?







Challenges with a Wake Words
Application

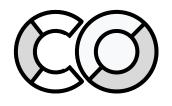
The Keyword Spotting ML Pipeline

Hands-on training of a wake words model in Colab!

What are we going to learn?







Challenges with a Wake Words
Application

The Wake Words ML Pipeline

Hands-on training of a Keyword Spotting Model