

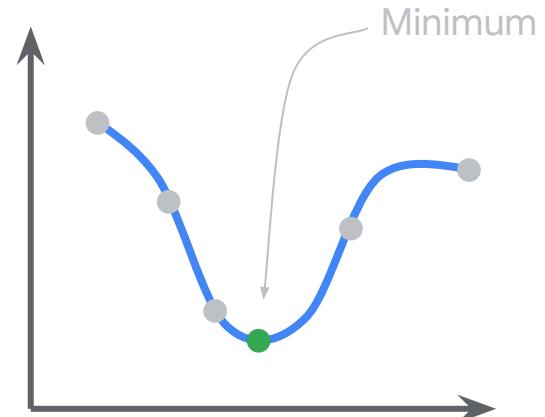
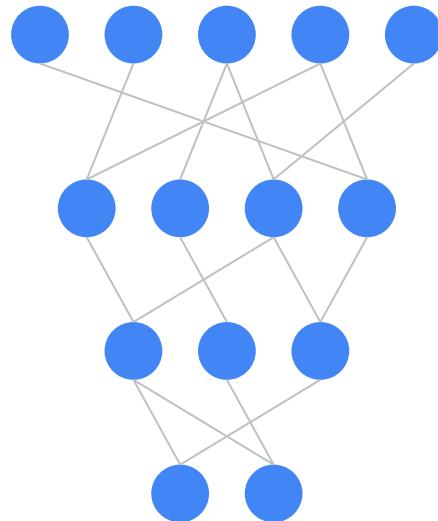
What is Visual Wake Words?



Acoustic Sensors
Ultrasonic, [Microphones](#),
Geophones, Vibrometers

Image Sensors
Thermal, [Image](#)

Motion Sensors
Gyroscope, Radar,
[Accelerometer](#)



Course 2: End-to-end **TinyML** application design





Next **big** thing!

Augmented Reality

- Smart Shopping



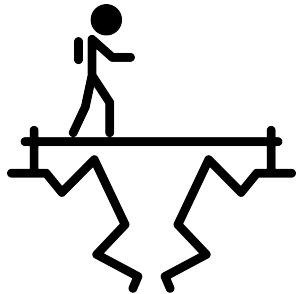
Next **big** thing!

Augmented Reality

- Smart Shopping
- Navigation



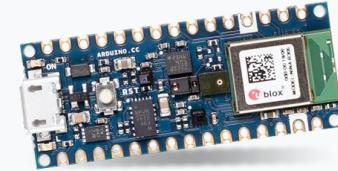
What are we going to learn?



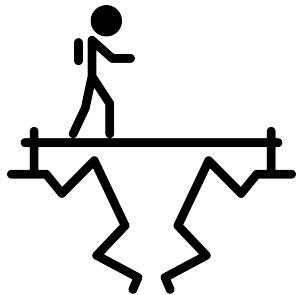
Challenges with
Visual Wake Words



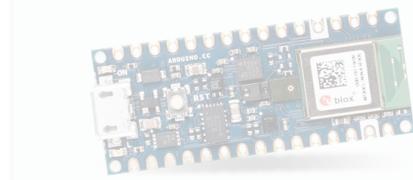
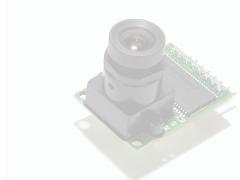
Opportunities with
Visual Wake Words



What are we going to learn?



Challenges with
Visual Wake Words



Opportunities with
Visual Wake Words

Challenges



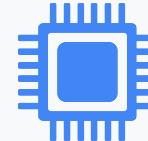
Latency & Bandwidth



Accuracy & Personalization

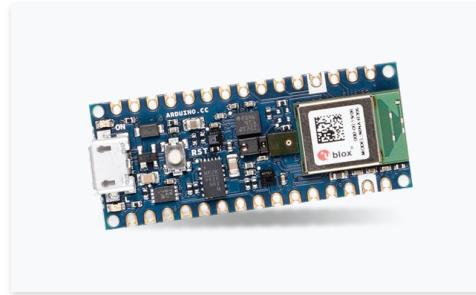


Security & Privacy



Battery & Memory

Opportunities

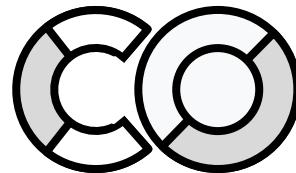


Run visual wake words
on-device

What are we going to learn?



What are we going to learn?



What are we going to learn?

