



2018 Asia University AI Summer Program (Day2-July4) A: AIY

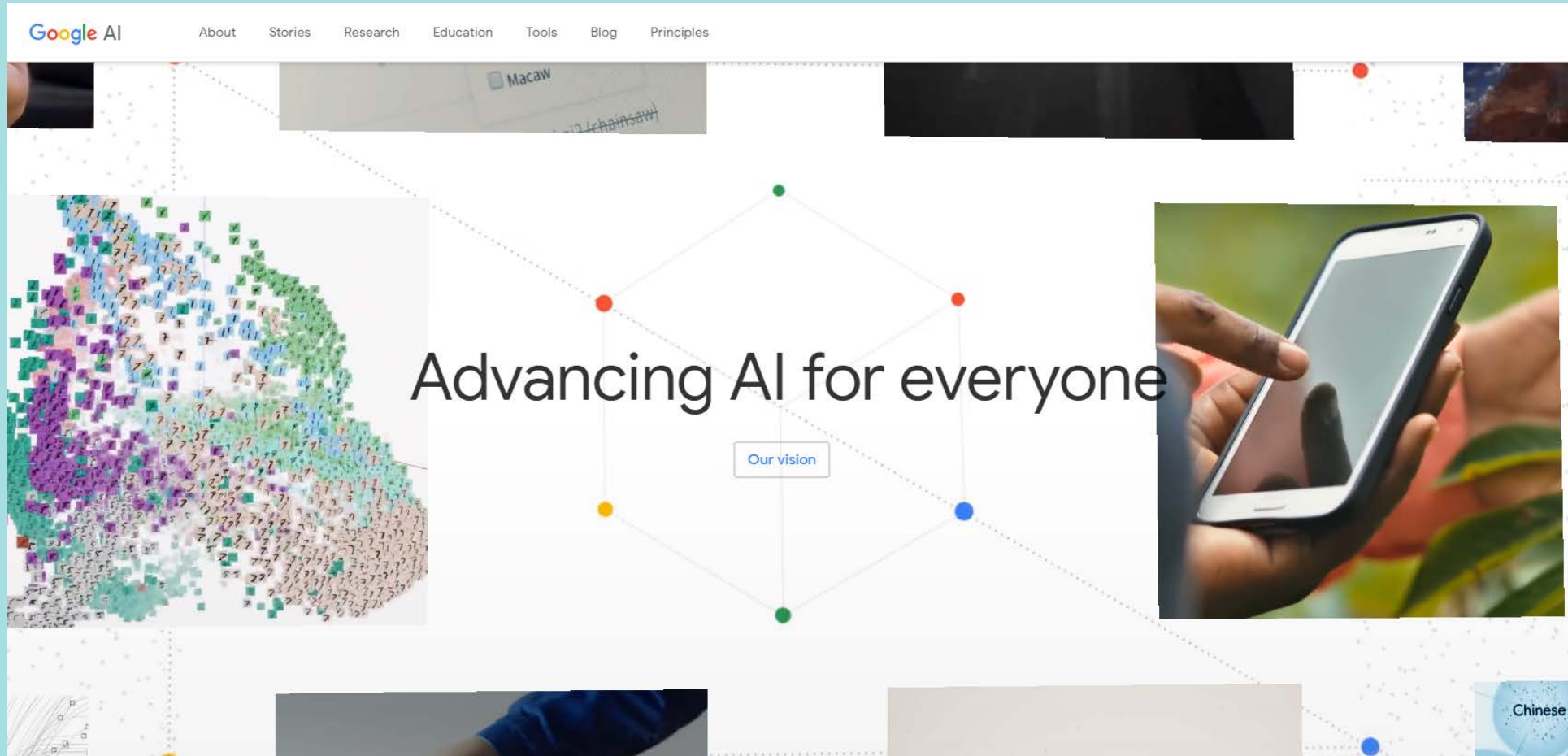
Frank Hsueh-Ting Chu

Content

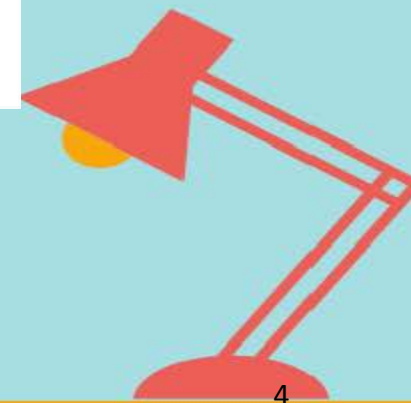
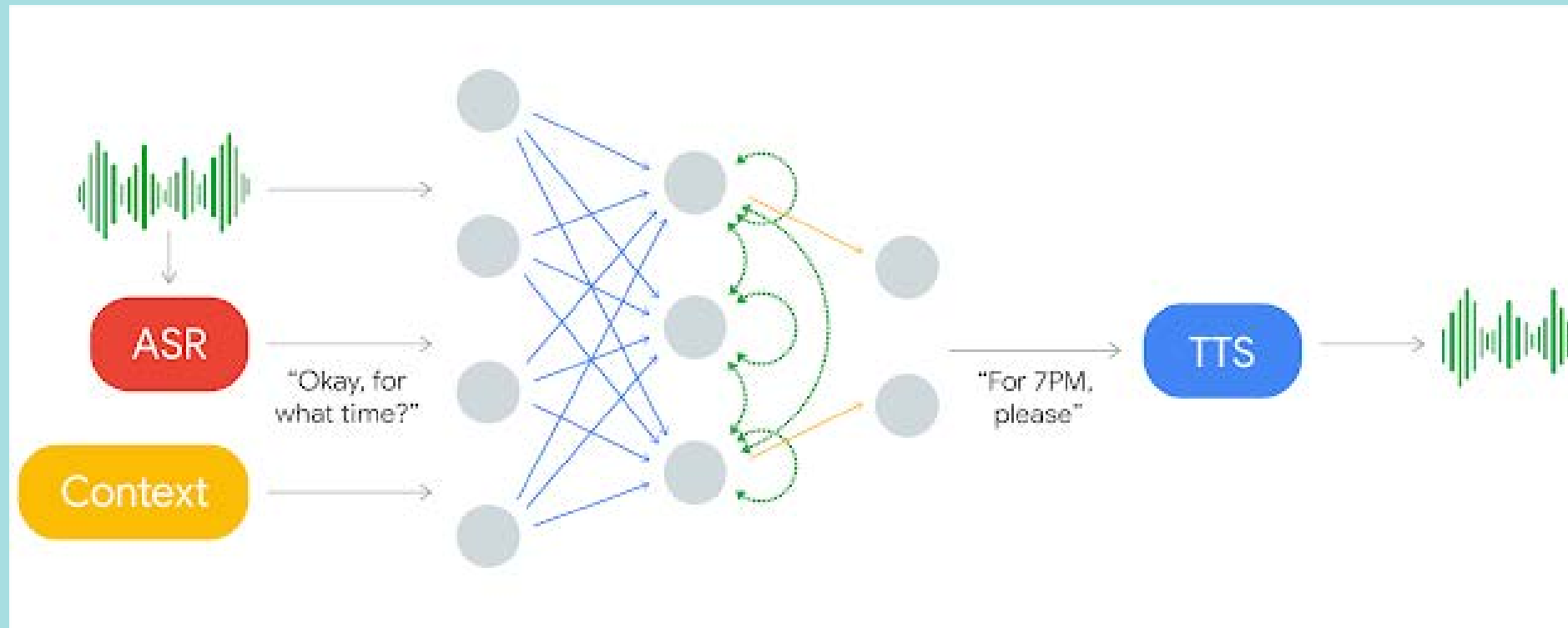
- Google AI
- Google Duplex
- Tacotron & WaveNet
- Google MLCC
- Tensorflow
- Google AIY
- Google Assistant
- Dialogflow



Google AI

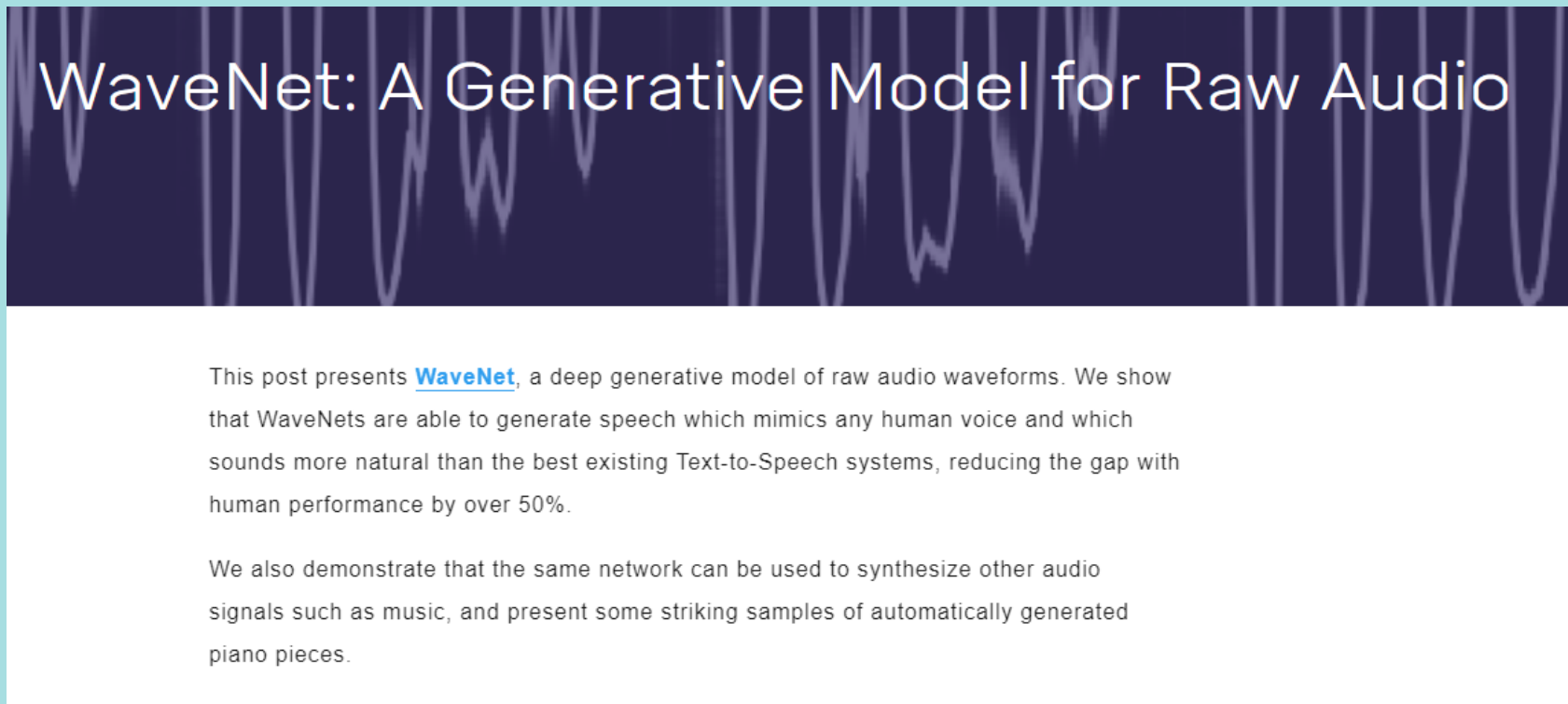


Google Duplex

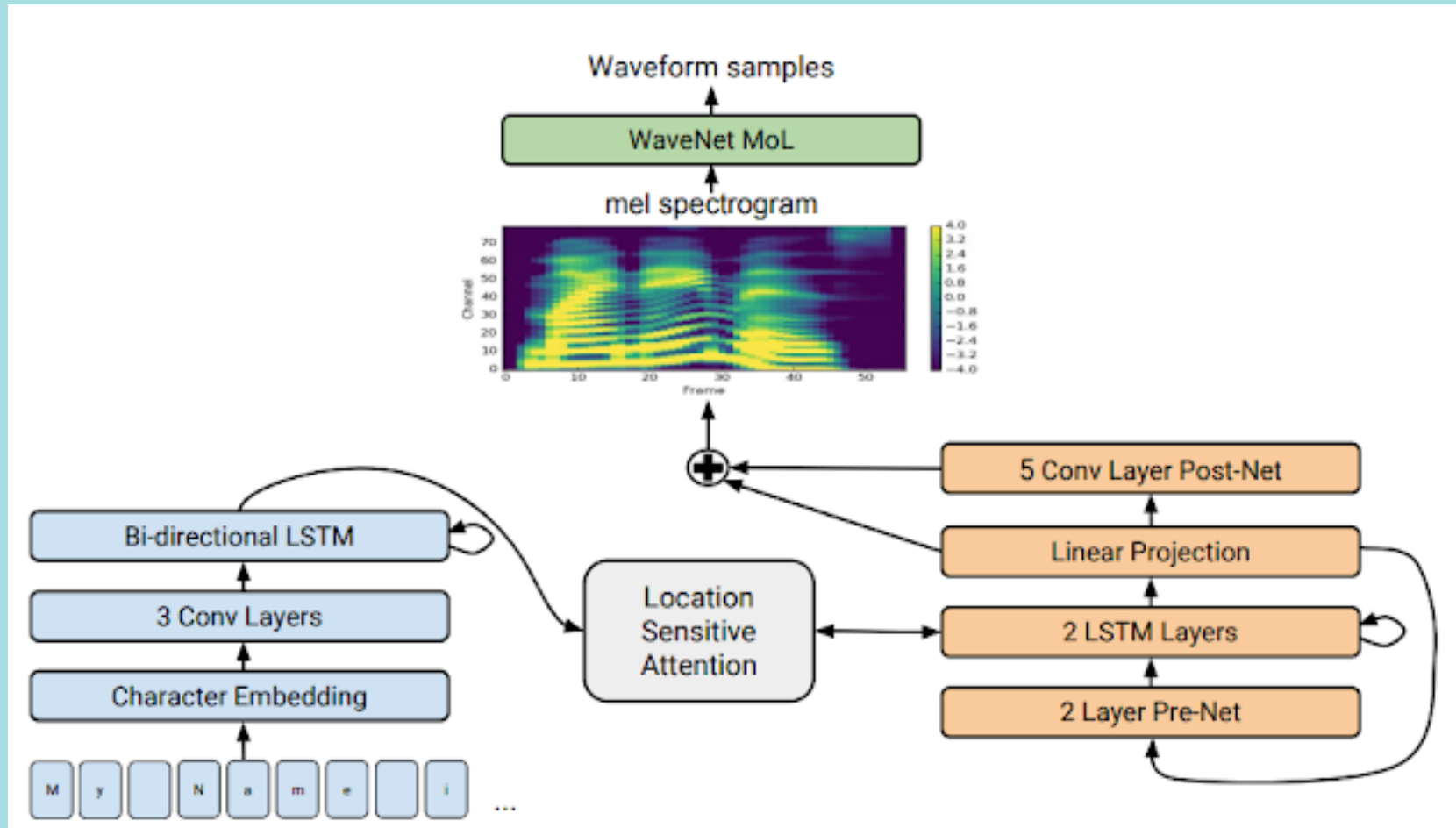


WaveNet: A Generative Model for Raw Audio

- <https://deepmind.com/blog/wavenet-generative-model-raw-audio/>



Tacotron 2: Generating Human-like Speech from Text



MLCC-Machine Learning Crash Course

Machine Learning Crash Course

搜尋

OVERVIEW

COURSE

EXERCISES

GLOSSARY

PRACTICA

Introduction

≡ Prerequisites and Prework

ML Concepts

▶ Introduction to ML (3 min)

▶ Framing (15 min)

▶ Descending into ML (20 min)

▶ Reducing Loss (60 min)

▶ First Steps with TF (60 min)

▶ Generalization (15 min)

▶ Training and Test Sets (25 min)

Introduction to Machine Learning

☆☆☆☆☆

This module introduces Machine Learning (ML).

🕒 Estimated Time: 3 minutes

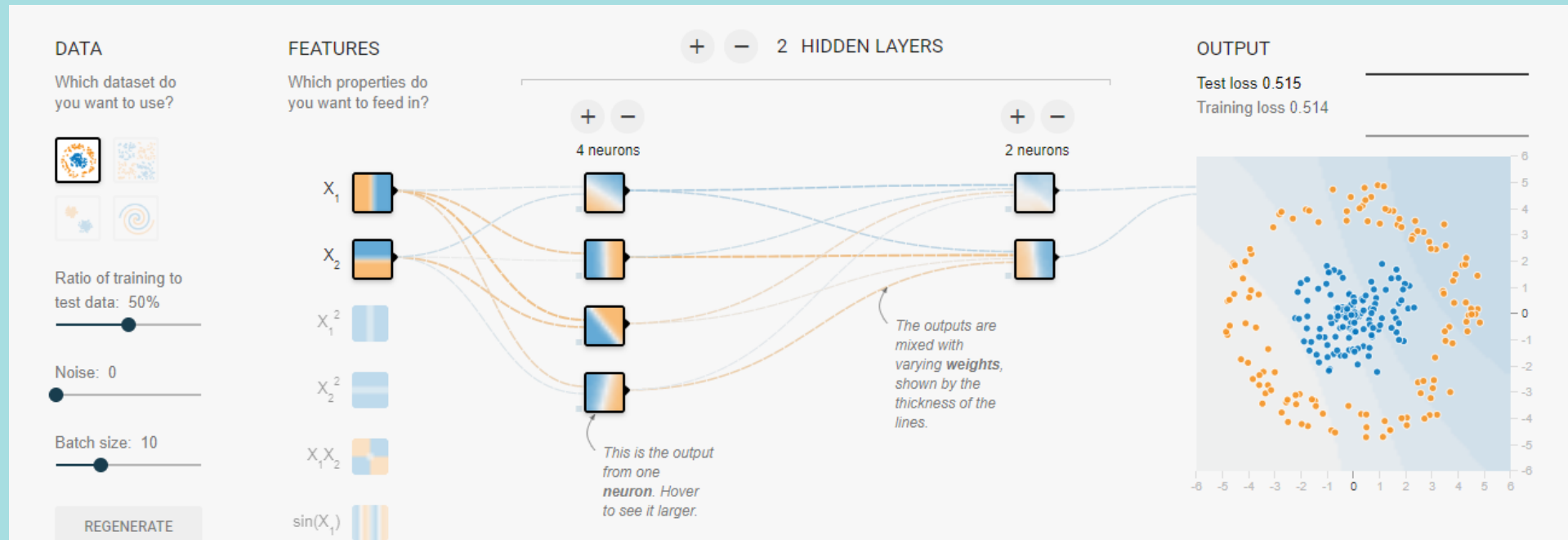
🎓 Learning Objectives

- Recognize the practical benefits of mastering machine learning
- Understand the philosophy behind machine learning

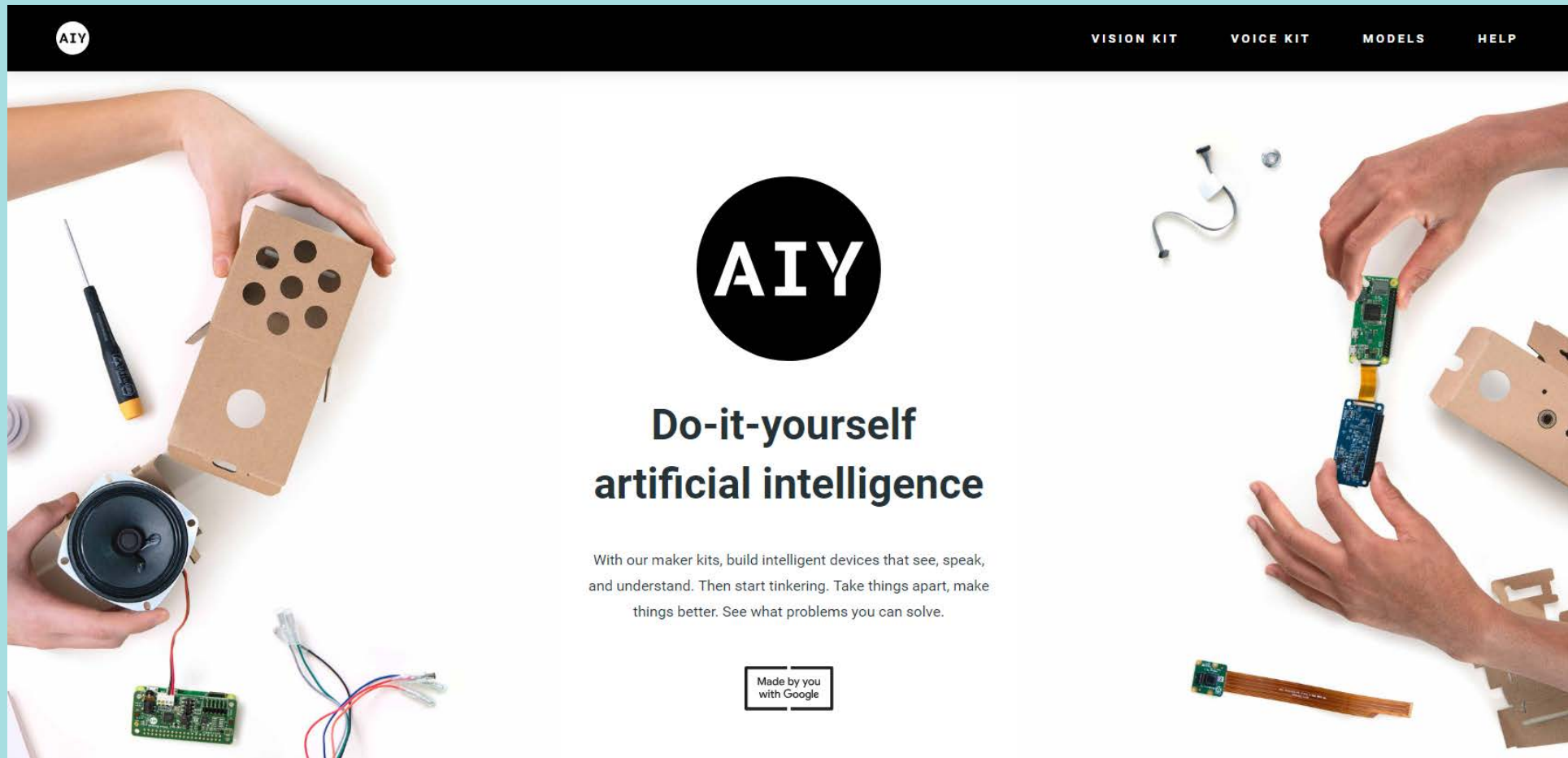


Tensorflow

- <https://playground.tensorflow.org>

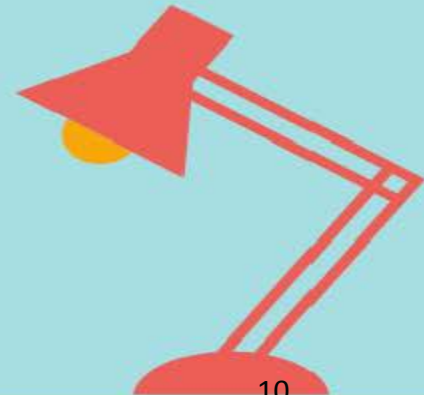


Google AIY



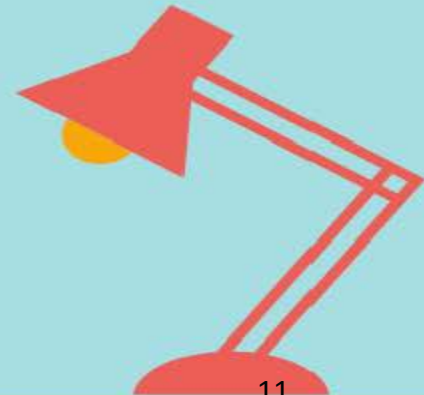
Voice Kit Assembly Guide

- GET THE VOICE KIT SD IMAGE
- ASSEMBLE THE HARDWARE
- FOLD THE CARDBOARD
- PUT IT ALL TOGETHER
- CONNECT AND BOOT THE DEVICE
- VERIFY IT WORKS

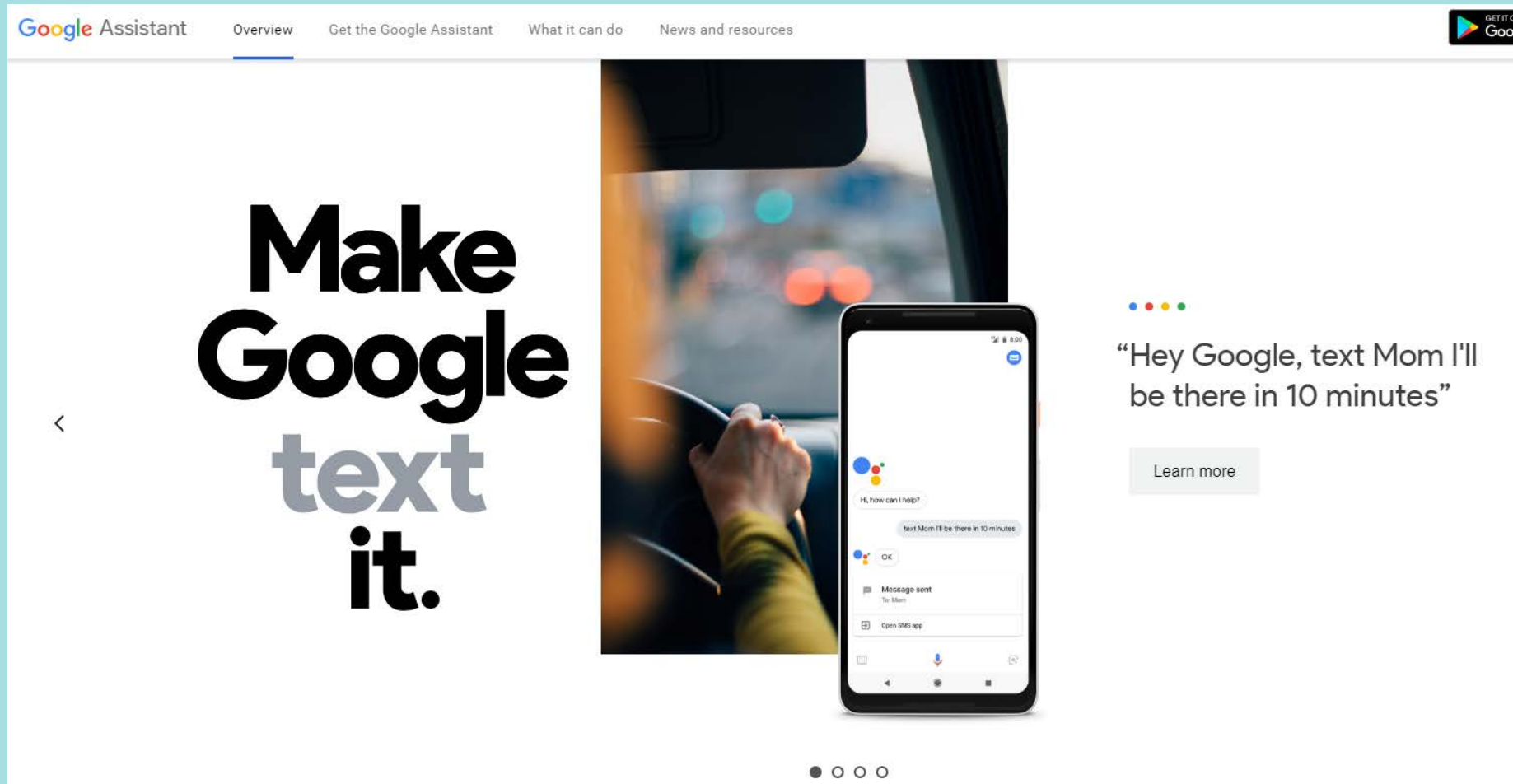


Voice Kit User's Guide

- SETTING UP YOUR DEVICE
- TURN ON THE GOOGLE ASSISTANT API
- USING YOUR DEVICE



Google Assistant



The banner features a navigation bar at the top with links: "Google Assistant", "Overview", "Get the Google Assistant", "What it can do", and "News and resources". A "GET IT ON Google" logo is in the top right. The main text on the left reads "Make Google text it." with a left arrow. The central image shows a person's hand on a steering wheel with a smartphone in the foreground. The phone screen displays a Google Assistant conversation: "Hi, how can I help?", "text Mom I'll be there in 10 minutes", "OK", "Message sent To Mom", and "Open SMS app". To the right of the phone, the text "Hey Google, text Mom I'll be there in 10 minutes" is shown with a "Learn more" button. A right arrow is on the far left, and a series of four dots with the first one filled is at the bottom center.

Google Assistant

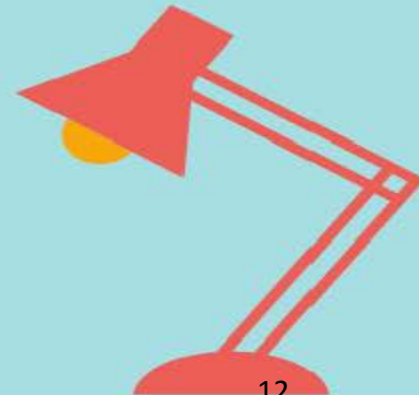
Overview Get the Google Assistant What it can do News and resources

GET IT ON Google

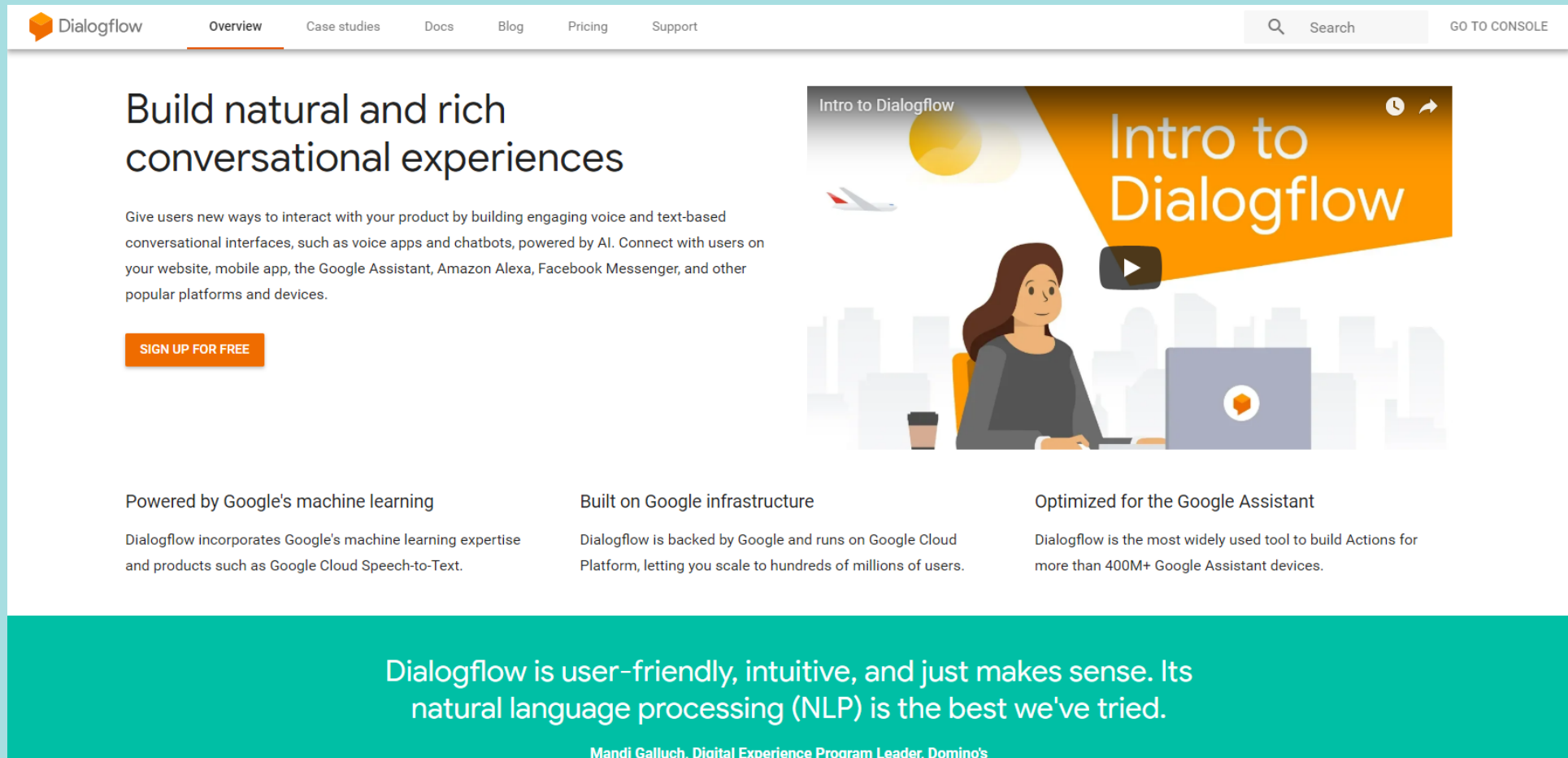
< Make Google text it. >

Hey Google, text Mom I'll be there in 10 minutes

Learn more



Dialogflow



The screenshot shows the Dialogflow website homepage. At the top is a navigation bar with the Dialogflow logo, links for Overview, Case studies, Docs, Blog, Pricing, and Support, a search bar, and a 'GO TO CONSOLE' link. The main content area features a large heading 'Build natural and rich conversational experiences' followed by a paragraph about building voice and text-based interfaces. Below this is a 'SIGN UP FOR FREE' button. To the right is a video player titled 'Intro to Dialogflow' showing an illustration of a person at a laptop. Below the main text are three columns: 'Powered by Google's machine learning', 'Built on Google infrastructure', and 'Optimized for the Google Assistant'. A teal banner at the bottom contains a quote from Mandi Galluch.

Dialogflow

Overview Case studies Docs Blog Pricing Support

Search GO TO CONSOLE

Build natural and rich conversational experiences

Give users new ways to interact with your product by building engaging voice and text-based conversational interfaces, such as voice apps and chatbots, powered by AI. Connect with users on your website, mobile app, the Google Assistant, Amazon Alexa, Facebook Messenger, and other popular platforms and devices.

[SIGN UP FOR FREE](#)

Intro to Dialogflow

Powered by Google's machine learning

Dialogflow incorporates Google's machine learning expertise and products such as Google Cloud Speech-to-Text.

Built on Google infrastructure

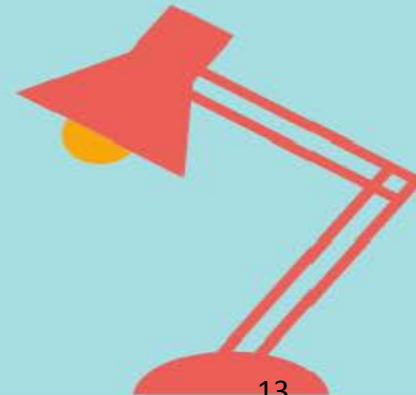
Dialogflow is backed by Google and runs on Google Cloud Platform, letting you scale to hundreds of millions of users.

Optimized for the Google Assistant

Dialogflow is the most widely used tool to build Actions for more than 400M+ Google Assistant devices.

Dialogflow is user-friendly, intuitive, and just makes sense. Its natural language processing (NLP) is the best we've tried.

Mandi Galluch, Digital Experience Program Leader, Domino's





Thanks!

Q&A

