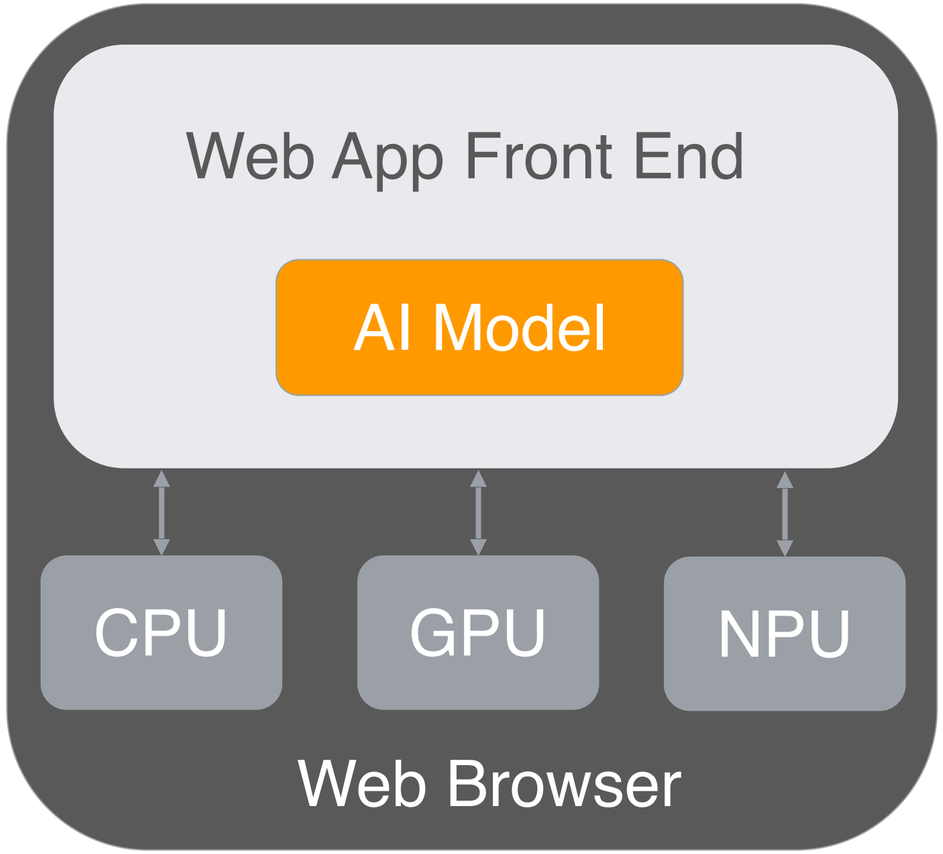
Web Apps of the future with Web AI

Jason Mayes
Web AI Lead, Google

linkedin.com/in/WebAI
@jason_mayes

Web AI != Cloud AI



JS

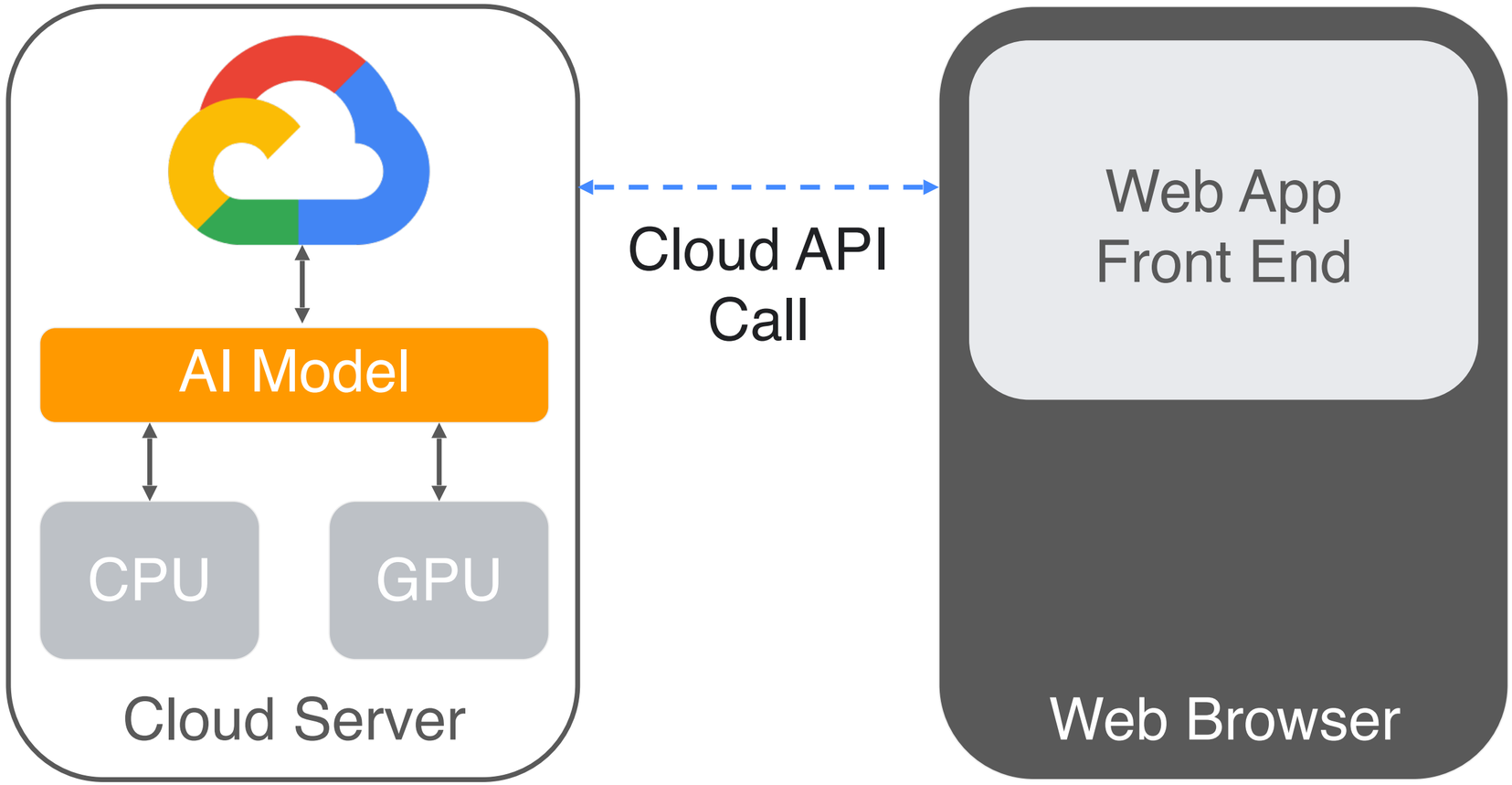
WebGL™

WA
WEBASSEMBLY

WebGPU

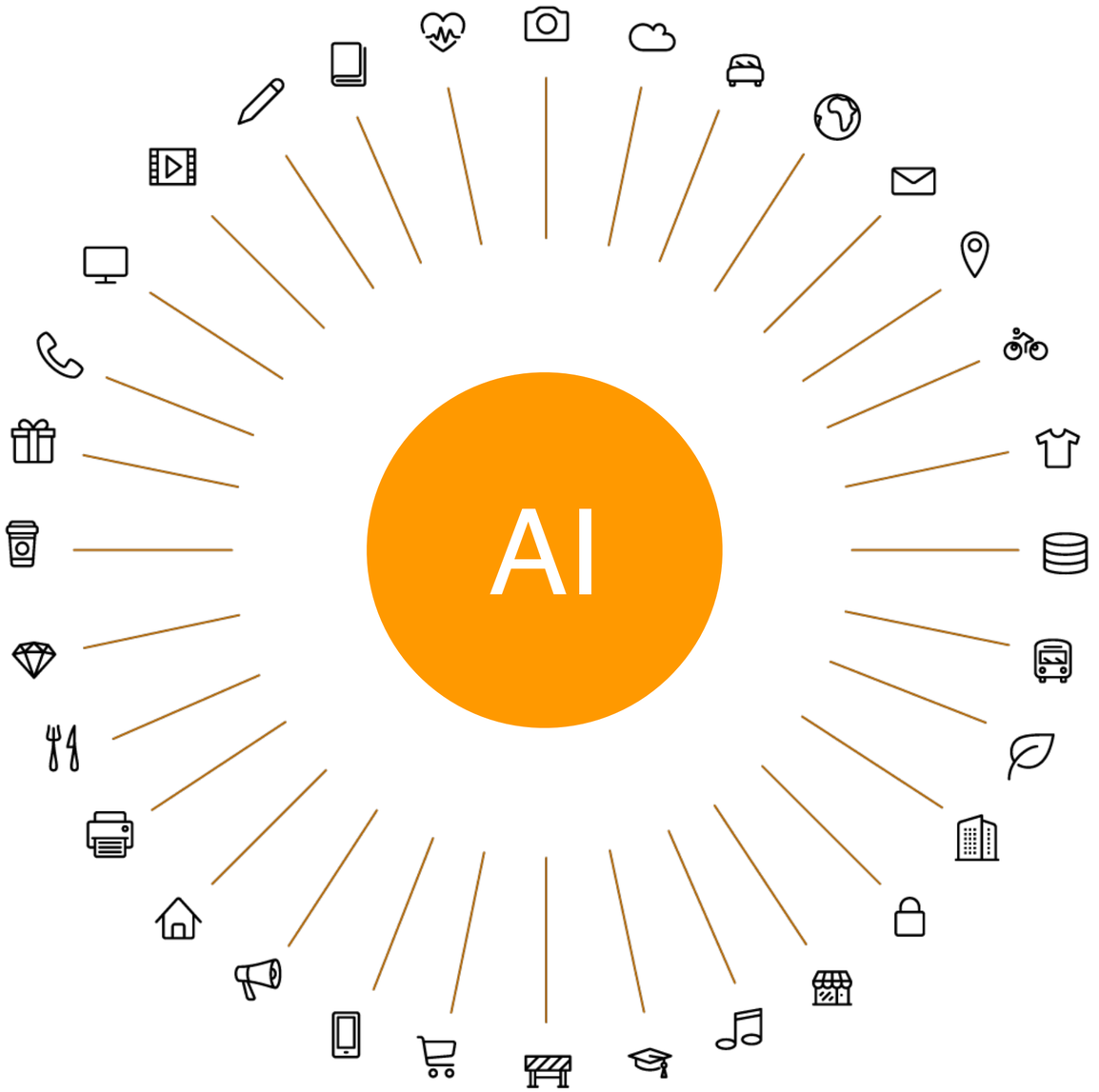
WebNN

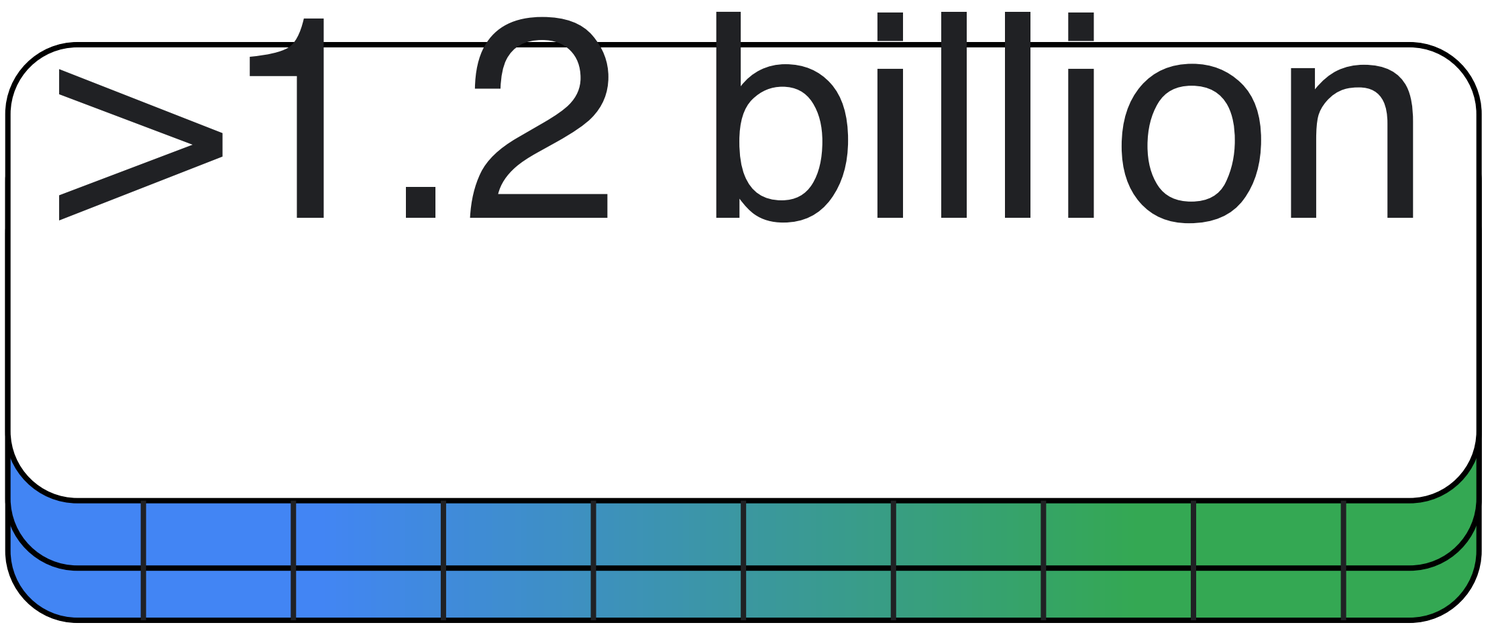
Built in JS APIs for common AI powered tasks


AI Model
CPU
GPU
Cloud Server
Cloud API
Call
Web App
Front End
Web Browser

AI will touch every industry.

Time to learn in JavaScript too!





Cumulative CDN downloads of MediaPipe Web /
TensorFlow.js libraries or models in 2022 and 2023.

Sources: 2023 + 2022 Public JSDeliver CDN statistics: 234M TFJS Library, 80M tfjs-tflie Library, 285M MP Face Detection, 292M MP Face Mesh, 60M MP Pose, 12M MP vision, 141M MP Selfie Segmentation, 52M MP Hands, 54M TFJS BodyPix, 18M TFJS MobileNet

Why Client Side AI?

JavaScript on-device AI wins

Privacy

Sensor data from camera, microphone, or other connected sensors stays on device. No cloud based inference protecting user privacy.

Offline

After initial page load the model and logic can run entirely offline which is particularly suitable for folk working in remote locations or areas with poor connectivity.

Latency

As no cloud involved there is no round trip time to server and back again. Instead of 100ms models can run in real time

Cost

As no server side hiring of expensive GPUs / CPUs and RAM, along with the bandwidth of sending data to and from server, cost can reduce significantly.

Zero install

Unlike native apps, no installation required, so not blocked by company policies to run the web app.

Reach & Scale of Web

Anyone, anywhere, can go to the link the web app is hosted on and it just works. No need to install dependencies or setup Linux / CUDA etc. High shareability.

IncludeHealth™

Total Body

3 exercises, 1 round

1

Single Foot Balance

10 sec

2

Full Body Squat

5 reps

3

Shoulder Abduction

6 reps

Start Workout

Learn More:
https://goo.gle/IncludeHealth

IncludeHealth™

Total Body

3 exercises, 1 round

1

Single Foot Balance

10 sec

2

Full Body Squat

5 reps

3

Shoulder Abduction

6 reps

Start Workout

Learn More:
https://goo.gle/IncludeHealth

JavaScript on-device AI wins

Privacy

Sensor data from camera, microphone, or other connected sensors stays on device. No cloud based inference protecting user privacy.

Offline

After initial page load the model and logic can run entirely offline which is particularly suitable for folk working in remote locations or areas with poor connectivity.

Latency

As no cloud involved there is no round trip time to server and back again. Instead of 100ms models can run in real time

Cost

As no server side hiring of expensive GPUs / CPUs and RAM, along with the bandwidth of sending data to and from server, cost can reduce significantly.

Zero install

Unlike native apps, no installation required, so not blocked by company policies to run the web app.

Reach & Scale of Web

Anyone, anywhere, can go to the link the web app is hosted on and it just works. No need to install dependencies or setup Linux / CUDA etc. High shareability.

Consumer Goods Detection

Created by Hugo Zanini

Learn More:
https://goo.gle/WebAI-Goods

Consumer Goods Detection

Created by Hugo Zanini

Learn More:
https://goo.gle/WebAI-Goods

JavaScript on-device AI wins

Privacy

Sensor data from camera, microphone, or other connected sensors stays on device. No cloud based inference protecting user privacy.

Offline

After initial page load the model and logic can run entirely offline which is particularly suitable for folk working in remote locations or areas with poor connectivity.

Latency

As no cloud involved there is no round trip time to server and back again. Instead of 100ms models can run in real time

Cost

As no server side hiring of expensive GPUs / CPUs and RAM, along with the bandwidth of sending data to and from server, cost can reduce significantly.

Zero install

Unlike native apps, no installation required, so not blocked by company policies to run the web app.

Reach & Scale of Web

Anyone, anywhere, can go to the link the web app is hosted on and it just works. No need to install dependencies or setup Linux / CUDA etc. High shareability.


MediaPipe


MediaPipe

JavaScript on-device AI wins

Privacy

Sensor data from camera, microphone, or other connected sensors stays on device. No cloud based inference protecting user privacy.

Offline

After initial page load the model and logic can run entirely offline which is particularly suitable for folk working in remote locations or areas with poor connectivity.

Latency

As no cloud involved there is no round trip time to server and back again. Instead of 100ms models can run in real time

Cost

As no server side hiring of expensive GPUs / CPUs and RAM, along with the bandwidth of sending data to and from server, cost can reduce significantly.

Zero install

Unlike native apps, no installation required, so not blocked by company policies to run the web app.

Reach & Scale of Web

Anyone, anywhere, can go to the link the web app is hosted on and it just works. No need to install dependencies or setup Linux / CUDA etc. High shareability.

Cost savings for both end users and companies

Chat with state of the art LLMs client side at incredible speeds without API usage caps

Web apps like video conferencing are even more cost effective to business when providing users with advanced features

Cost savings for both end users and companies

Chat with state of the art LLMs client side at incredible speeds without API usage caps

Web apps like video conferencing are even more cost effective to business when providing users with advanced features

JavaScript on-device AI wins

Privacy

Sensor data from camera, microphone, or other connected sensors stays on device. No cloud based inference protecting user privacy.

Offline

After initial page load the model and logic can run entirely offline which is particularly suitable for folk working in remote locations or areas with poor connectivity.

Latency

As no cloud involved there is no round trip time to server and back again. Instead of 100ms models can run in real time

Cost

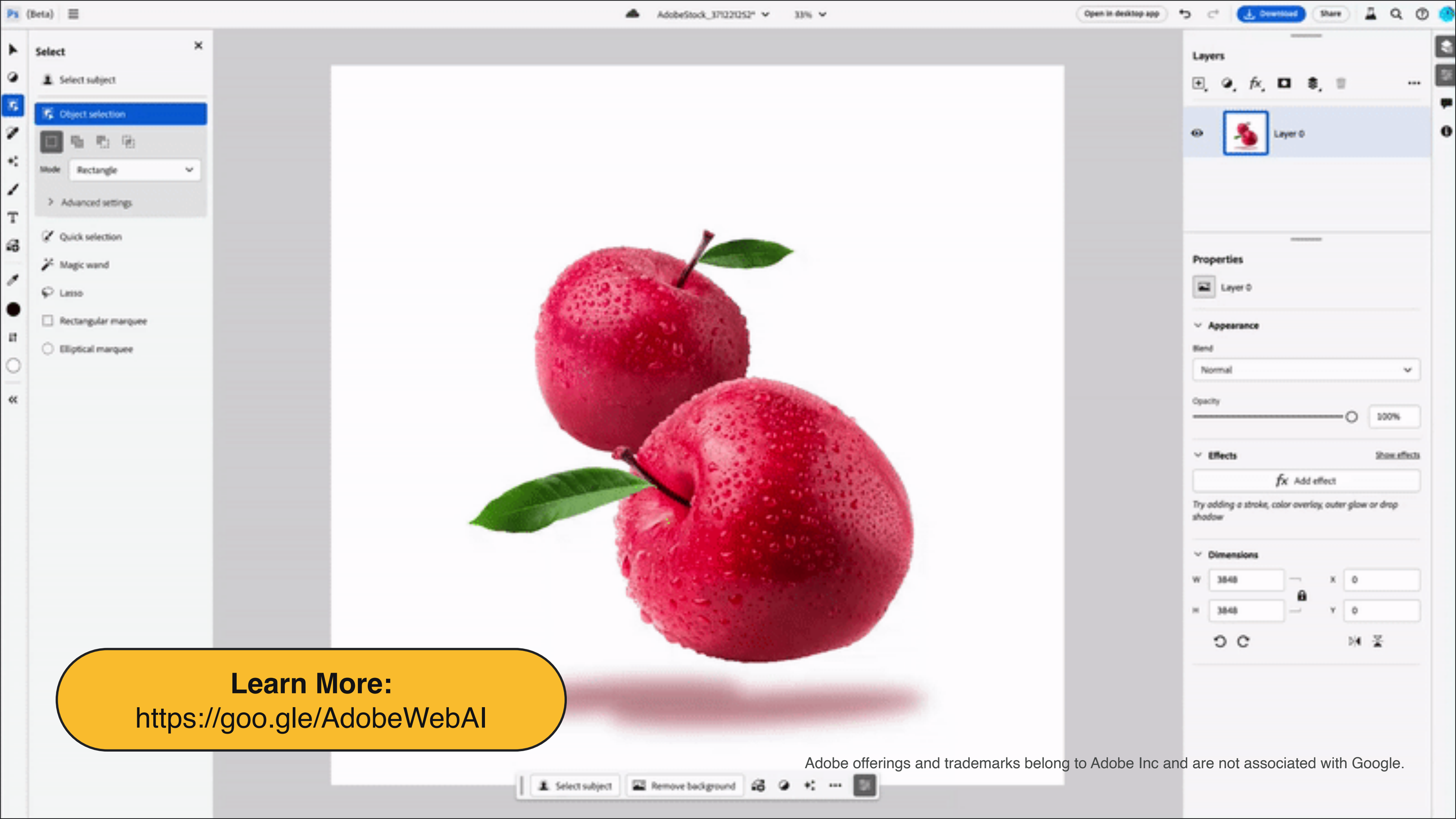
As no server side hiring of expensive GPUs / CPUs and RAM, along with the bandwidth of sending data to and from server, cost can reduce significantly.

Zero install

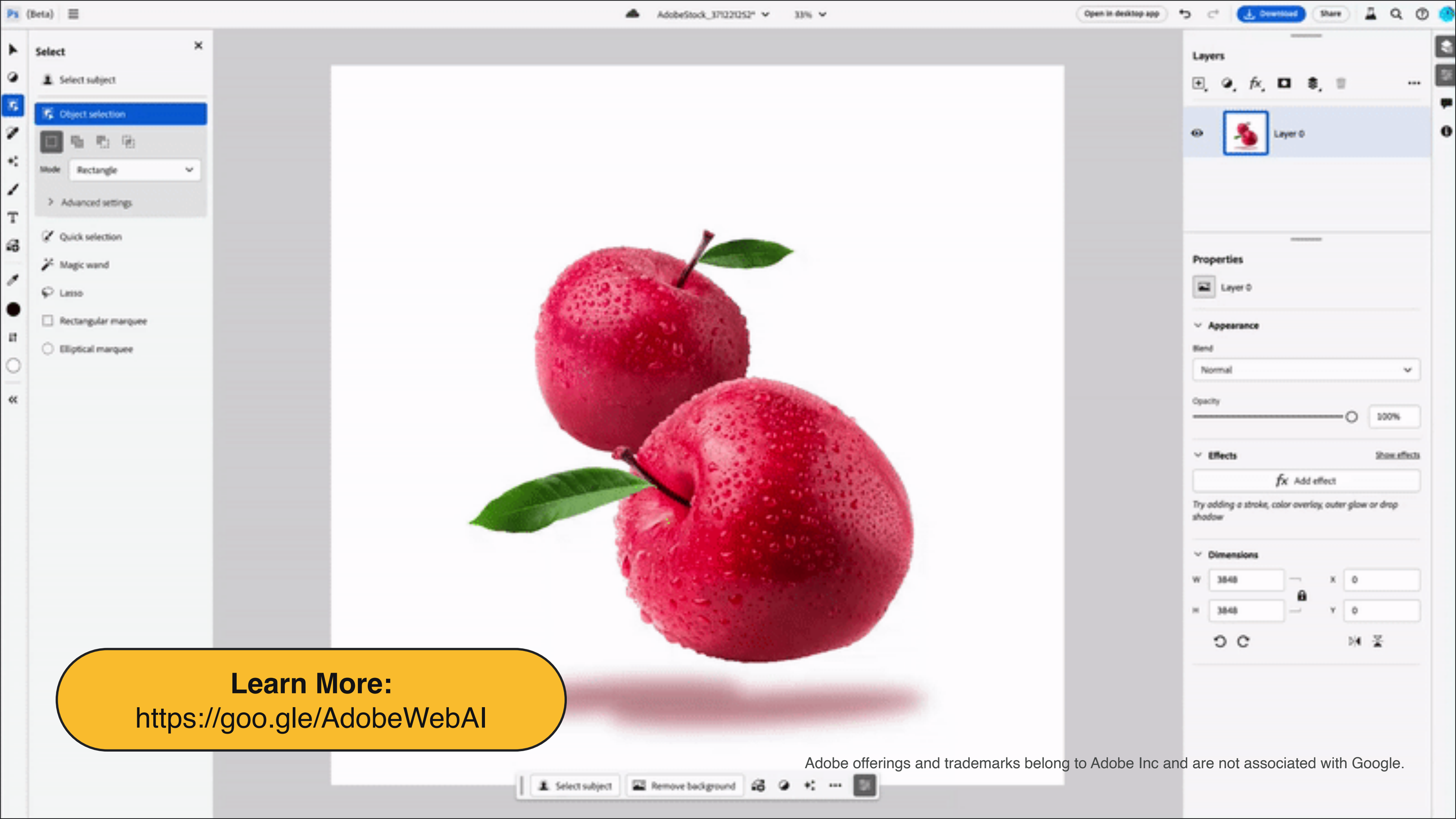
Unlike native apps, no installation required, so not blocked by company policies to run the web app.

Reach & Scale of Web

Anyone, anywhere, can go to the link the web app is hosted on and it just works. No need to install dependencies or setup Linux / CUDA etc. High shareability.



Learn More:
https://goo.gle/AdobeWebAI



Learn More:
https://goo.gle/AdobeWebAI

JavaScript on-device AI wins

Privacy

Sensor data from camera, microphone, or other connected sensors stays on device. No cloud based inference protecting user privacy.

Offline

After initial page load the model and logic can run entirely offline which is particularly suitable for folk working in remote locations or areas with poor connectivity.

Latency

As no cloud involved there is no round trip time to server and back again. Instead of 100ms models can run in real time

Cost

As no server side hiring of expensive GPUs / CPUs and RAM, along with the bandwidth of sending data to and from server, cost can reduce significantly.

Zero install

Unlike native apps, no installation required, so not blocked by company policies to run the web app.

Reach & Scale of Web

Anyone, anywhere, can go to the link the web app is hosted on and it just works. No need to install dependencies or setup Linux / CUDA etc. High shareability.


Effects
Backgrounds
Filters
Appearance
New
Generate a background
Blur and personal backgrounds
For your organisation
Professional
Cosy home
Jason Mayes
ecg-jdil-pqr

54K

Images per 30 minute meeting*

*Assuming 30 frames per second for video

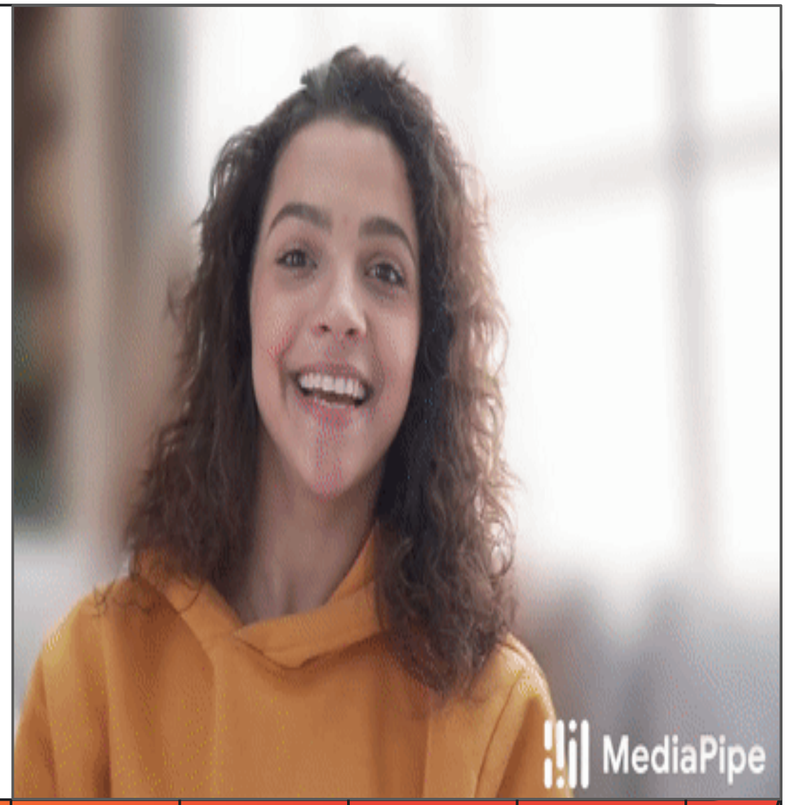
54B

Images per day*

*Assuming 1M meetings per day

$2B

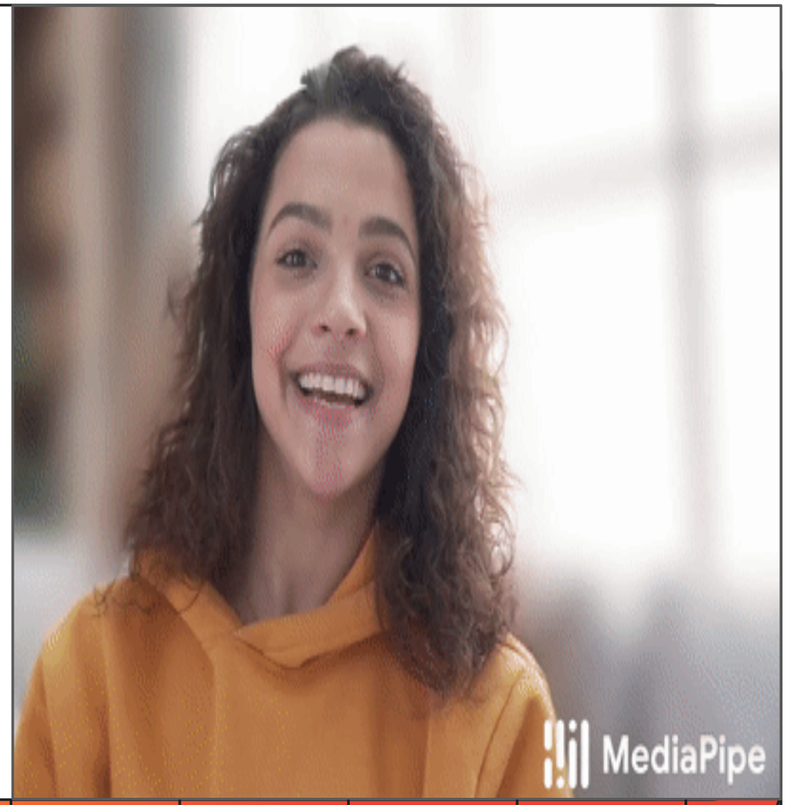
Estimated yearly savings by using client side Web AI*



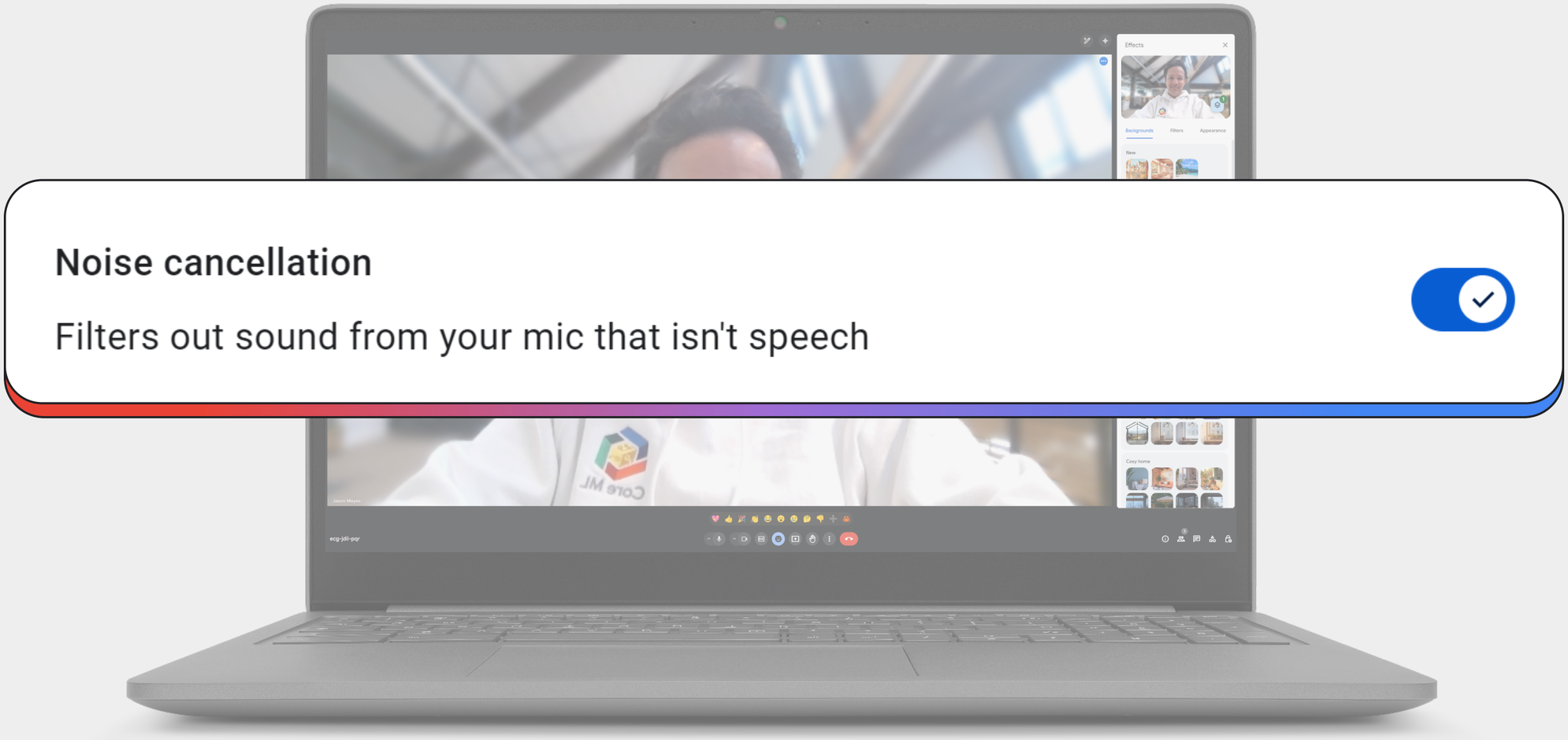
*Assuming 0.0001 cents per inference for segmentation when using server side compute

$2B

Estimated yearly savings by using client side Web AI*

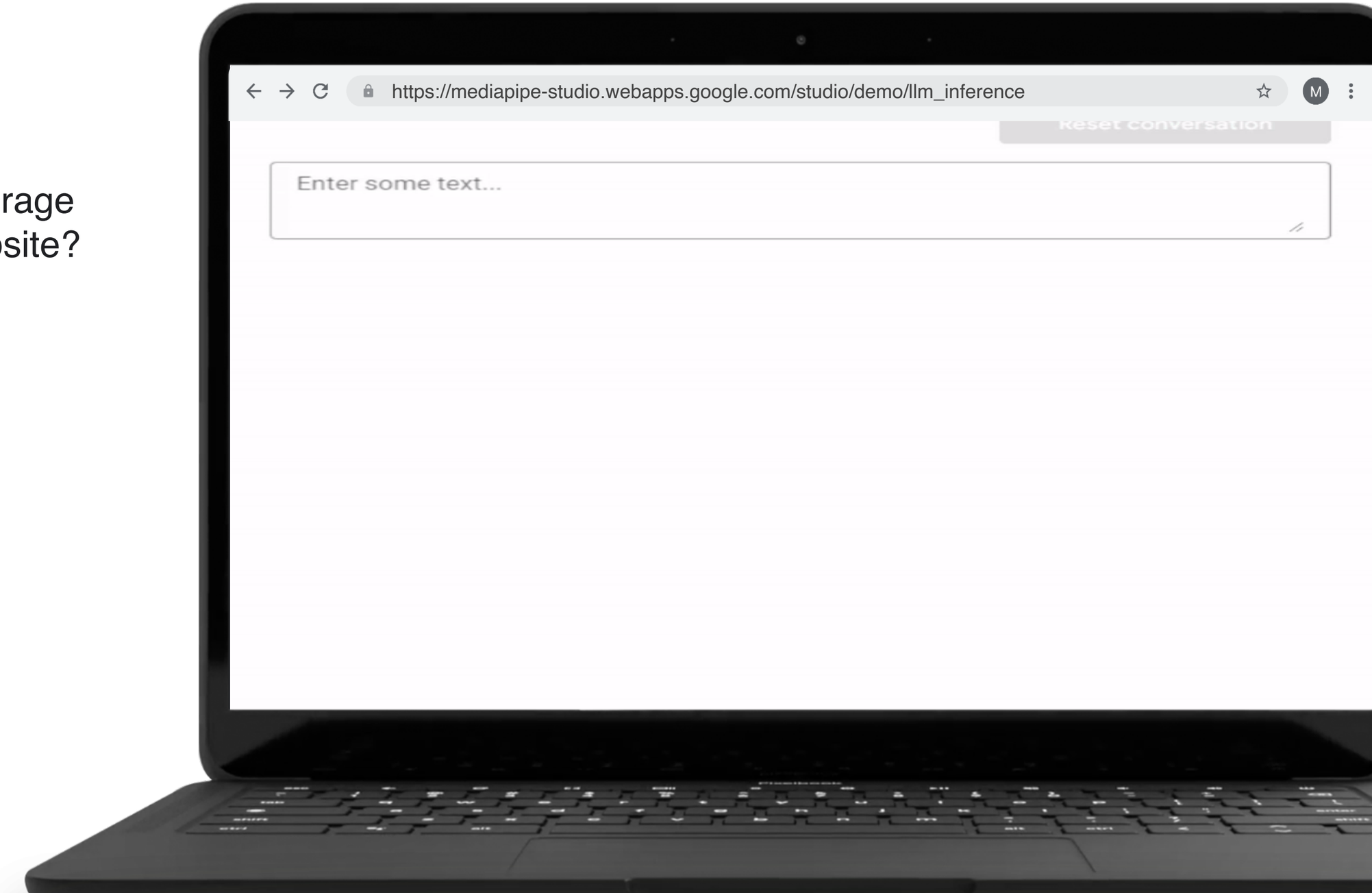


*Assuming 0.0001 cents per inference for segmentation when using server side compute


Noise cancellation
Filters out sound from your mic that isn't speech

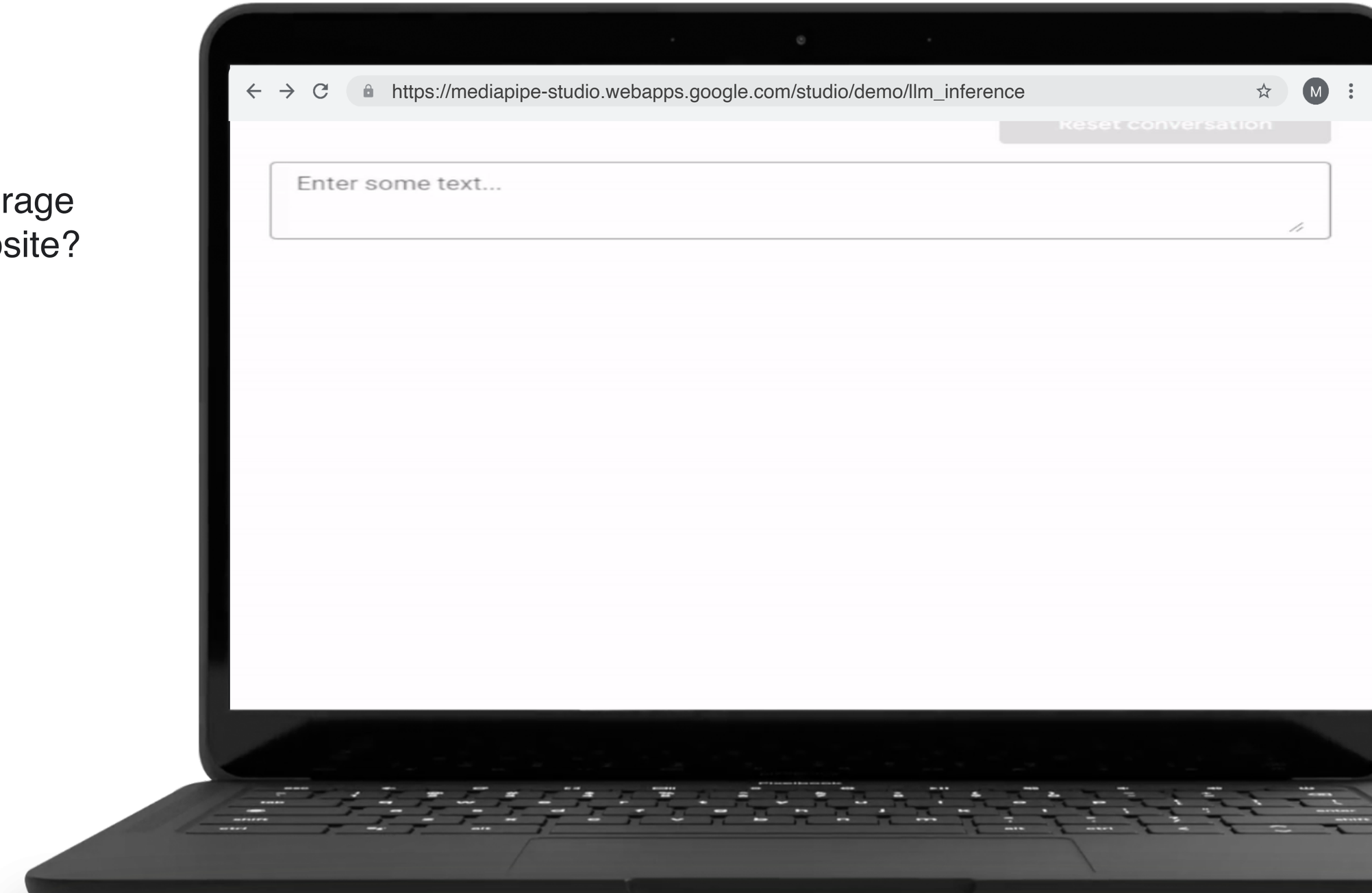
LLMs in the browser

How could you leverage an LLM in your website?



LLMs in the browser

How could you leverage an LLM in your website?



LLM Task API

Load and run our 4 supported LLM architectures in the browser with ease.

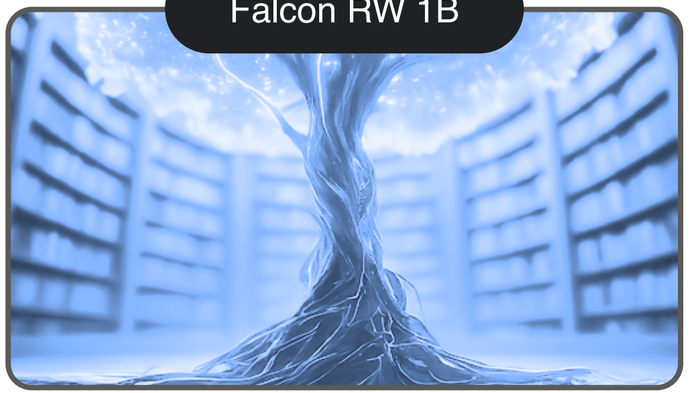
Learn More:
https://goo.gle/MPWebLLMDocs

Gemma 2B

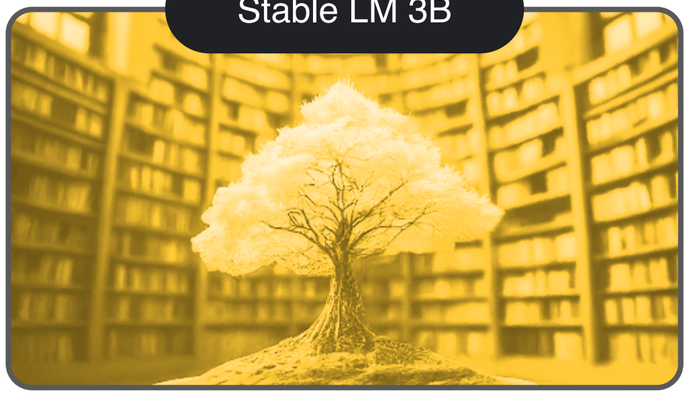
Gemma

Phi 2

Falcon RW 1B



Stable LM 3B



```
import {FilesetResolver, LlmInference as LlmTask} from 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai';

const modelURL = 'https://YOUR_LLM_MODEL_URL_HERE';

async function initLLM() {
  const filesetURL = 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai/wasm';
  const genAIFileset = await FilesetResolver.forGenAiTasks(filesetURL);

  let llm = await LlmTask.createFromModelPath(genAIFileset, modelURL);
  let answer = await llm.generateResponse("Define the word: Dog.");
  console.log(answer);
}
```

```
import {FilesetResolver, LlmInference as LlmTask} from 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai';

const modelURL = 'https://YOUR_LLM_MODEL_URL_HERE';

async function initLLM() {
  const filesetURL = 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai/wasm';
  const genAIFileset = await FilesetResolver.forGenAiTasks(filesetURL);

  let llm = await LlmTask.createFromModelPath(genAIFileset, modelURL);
  let answer = await llm.generateResponse("Define the word: Dog.");
  console.log(answer);
}
```

```
import {FilesetResolver, LlmInference as LlmTask} from 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai';

const modelURL = 'https://YOUR_LLM_MODEL_URL_HERE';

async function initLLM() {
  const filesetURL = 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai/wasm';
  const genAIFileset = await FilesetResolver.forGenAiTasks(filesetURL);

  let llm = await LlmTask.createFromModelPath(genAIFileset, modelURL);
  let answer = await llm.generateResponse("Define the word: Dog.");
  console.log(answer);
}
```

```
import {FilesetResolver, LlmInference as LlmTask} from 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai';

const modelURL = 'https://YOUR_LLM_MODEL_URL_HERE';

async function initLLM() {
  const filesetURL = 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai/wasm';
  const genAIFileset = await FilesetResolver.forGenAiTasks(filesetURL);

  let llm = await LlmTask.createFromModelPath(genAIFileset, modelURL);
  let answer = await llm.generateResponse("Define the word: Dog.");
  console.log(answer);
}
```

```
import {FilesetResolver, LlmInference as LlmTask} from 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai';

const modelURL = 'https://YOUR_LLM_MODEL_URL_HERE';

async function initLLM() {
  const filesetURL = 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai/wasm';
  const genAIFileset = await FilesetResolver.forGenAiTasks(filesetURL);

  let llm = await LlmTask.createFromModelPath(genAIFileset, modelURL);
  let answer = await llm.generateResponse("Define the word: Dog.");
  console.log(answer);
}
```

```
import {FilesetResolver, LlmInference as LlmTask} from 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai';

const modelURL = 'https://YOUR_LLM_MODEL_URL_HERE';

async function initLLM() {
  const filesetURL = 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai/wasm';
  const genAIFileset = await FilesetResolver.forGenAiTasks(filesetURL);

  let llm = await LlmTask.createFromModelPath(genAIFileset, modelURL);
  let answer = await llm.generateResponse("Define the word: Dog.");
  console.log(answer);
}
```

```
import {FilesetResolver, LlmInference as LlmTask} from 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai';

const modelURL = 'https://YOUR_LLM_MODEL_URL_HERE';

async function initLLM() {
  const filesetURL = 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai/wasm';
  const genAIFileset = await FilesetResolver.forGenAiTasks(filesetURL);

  let llm = await LlmTask.createFromModelPath(genAIFileset, modelURL);
  let answer = await llm.generateResponse("Define the word: Dog.");
  console.log(answer);
}
```

```
import {FilesetResolver, LlmInference as LlmTask} from 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai';

const modelURL = 'https://YOUR_LLM_MODEL_URL_HERE';

async function initLLM() {
  const filesetURL = 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai/wasm';
  const genAIFileset = await FilesetResolver.forGenAiTasks(filesetURL);

  let llm = await LlmTask.createFromModelPath(genAIFileset, modelURL);
  let answer = await llm.generateResponse("Define the word: Dog.");
  console.log(answer);
}
```

```
import {FilesetResolver, LlmInference as LlmTask} from 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai';

const modelURL = 'https://YOUR_LLM_MODEL_URL_HERE';

async function initLLM() {
  const filesetURL = 'https://cdn.jsdelivr.net/npm/@mediapipe/tasks-genai/wasm';
  const genAIFileset = await FilesetResolver.forGenAiTasks(filesetURL);

  let llm = await LlmTask.createFromModelPath(genAIFileset, modelURL);
  let answer = await llm.generateResponse("Define the word: Dog.");
  console.log(answer);
}
```

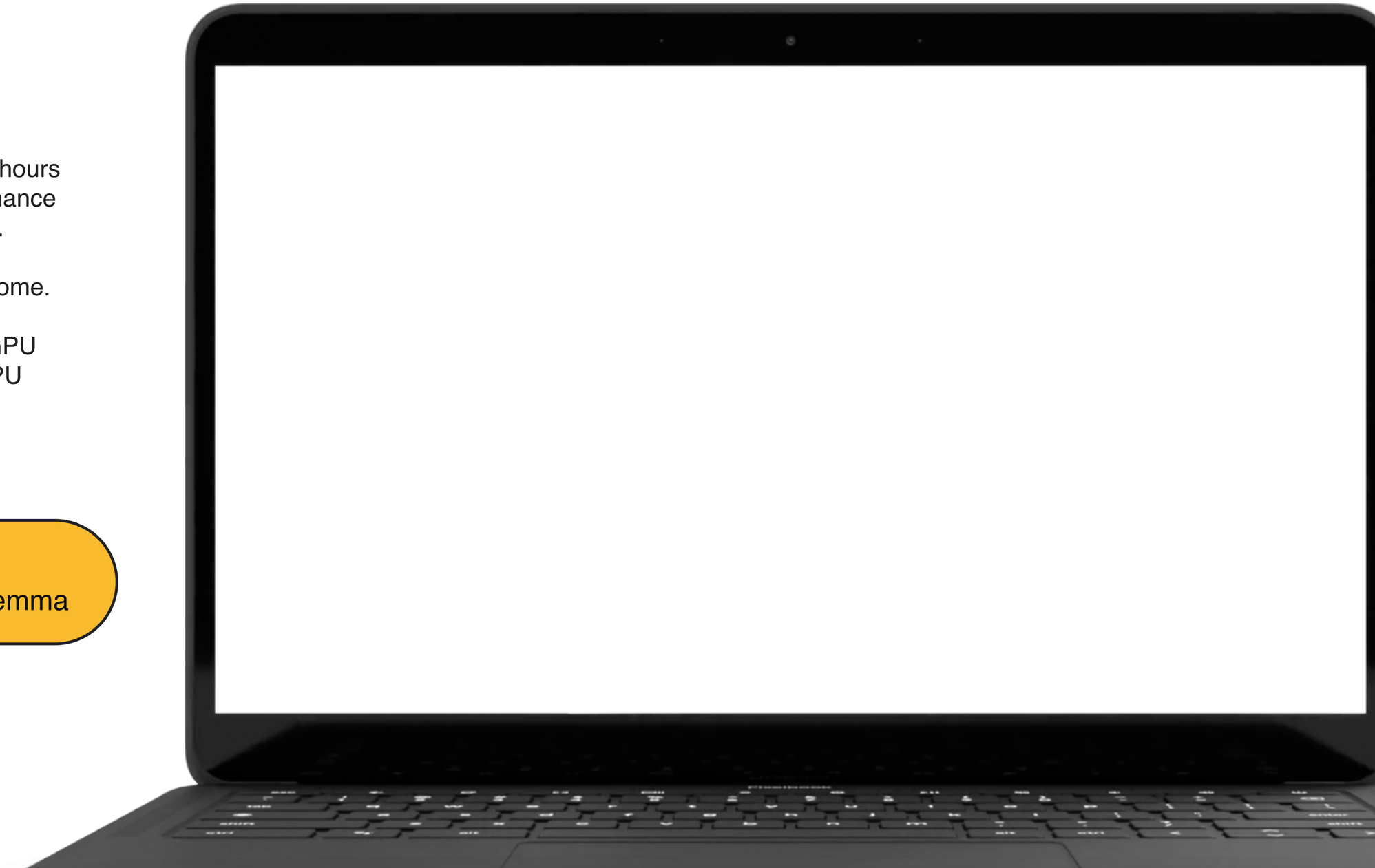
Endless possibilities

A prototype made in just a few hours to explore how LLMs could enhance your web browsing productivity.

Real-time capture taken in Chrome.

Model is accelerated via WebGPU running on an NVIDIA 1070 GPU entirely in the web browser.

Try it yourself:
https://goo.gle/WebAIGemma



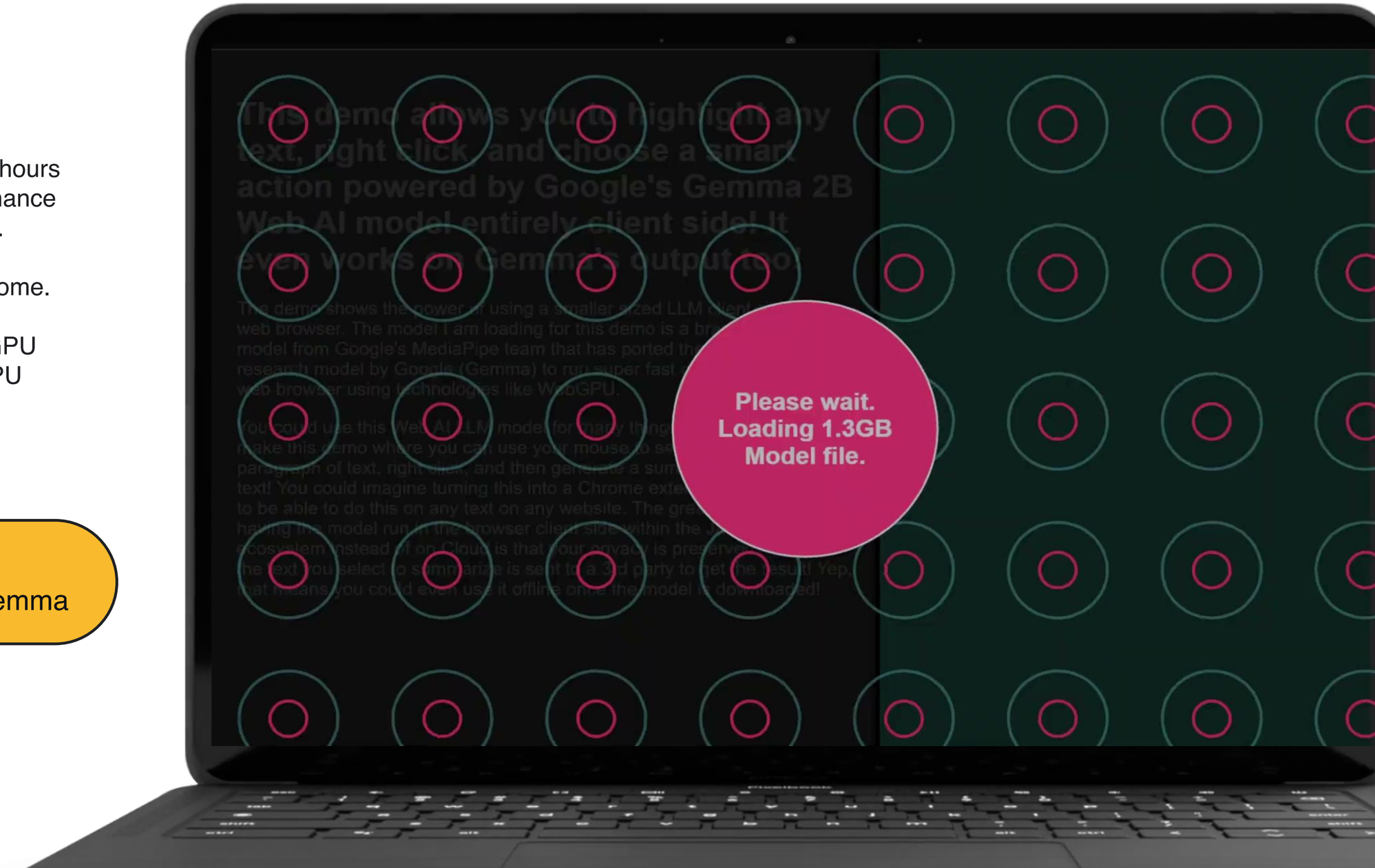
Endless possibilities

A prototype made in just a few hours to explore how LLMs could enhance your web browsing productivity.

Real-time capture taken in Chrome.

Model is accelerated via WebGPU running on an NVIDIA 1070 GPU entirely in the web browser.

Try it yourself:
https://goo.gle/WebAIGemma



Read PDF

Talk with PDFs

Created by Nico Martin

Try it yourself:
https://pdf.nico.dev/

Please add a document for
which you have questions.

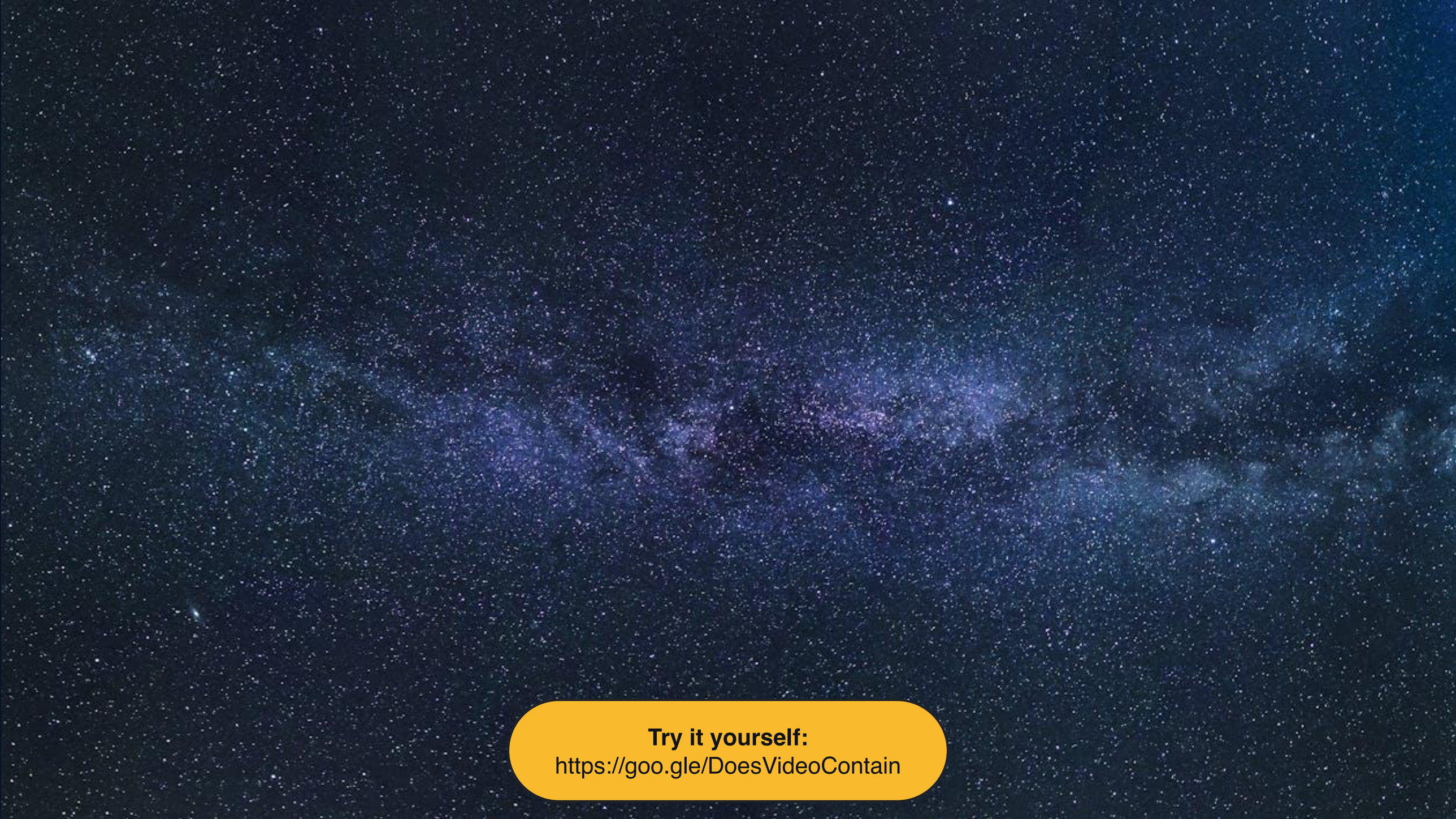
Read PDF

Talk with PDFs

Created by Nico Martin

Try it yourself:
https://pdf.nico.dev/

Please add a document for
which you have questions.


Try it yourself:
https://goo.gle/DoesVideoContain

Try it yourself:
https://goo.gle/DoesVideoContain

The start of a new era: AI enabled web apps

Get creative!

Hardware will evolve over time

Allowing even more powerful models to run on device in the future…

2-8B

Smaller LLMs ❤️ Web AI

Hybrid Web AI could be a good starting point today

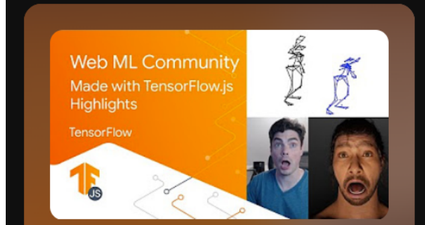
web.dev/explore/ai

Web AI Community

Community show & tell demos

See them all in full at:

https://goo.gle/made-with-tfjs



Made with TensorFlow.js

TensorFlow

43 videos 39,033 views Last updated on 3 Apr 2023

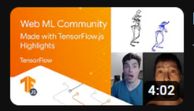
Play all Shuffle

Curious about creative or innovative use cases for machine learning in the real world? Get inspired and check out our bite sized interviews with amazing developers from around the world who have used TensorFlow.js in their latest work, to amplify their prototypes and research via the reach and scale of the web. With TensorFlow.js you can run client side, server side, desktop native, mobile native, and even on IOT, enabling anyone, anywhere to use your creations. Come learn from their collective experiences and take your first steps too!

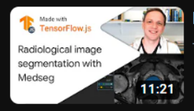
If you would like a chance to be featured in future interviews, use #MadeWithTFJS on social media so we can find your amazing work!

Learn more about TensorFlow.js:
https://www.tensorflow.org/js

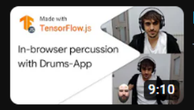
Subscribe to TensorFlow →
https://goo.gle/TensorFlow

1 

Made with TensorFlow.js highlights
TensorFlow • 5.1K views • 1 month ago

2 

Radiological image segmentation with Medseg - Made with TensorFlow.js
TensorFlow • 4.4K views • 2 months ago

3 

In-browser percussion instruments with Drums-App - Made with TensorFlow.js
TensorFlow • 2.3K views • 3 months ago

4 

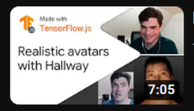
Reinforcement learning with Snake-RL - Made with TensorFlow.js
TensorFlow • 4.1K views • 3 months ago

5 

Motion interactive AR with Rotoflo - Made with TensorFlow.js
TensorFlow • 3.6K views • 3 months ago

6 

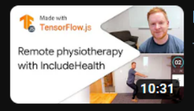
Faster dataset annotation and model evaluation with Roboflow - Made with TensorFlow.js
TensorFlow • 7.6K views • 6 months ago

7 

Realistic avatars with Hallway face motion capture - Made with TensorFlow.js
TensorFlow • 5.3K views • 6 months ago

8 

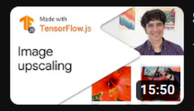
ML for everyone with Kemu - Made with TensorFlow.js
TensorFlow • 8.7K views • 6 months ago

9 

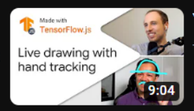
Remote physiotherapy at scale with IncludeHealth - Made with TensorFlow.js
TensorFlow • 6.3K views • 6 months ago

10 

Grocery store recommendation systems with HarperDB and Web ML - Made with TensorFlow.js
TensorFlow • 6.9K views • 7 months ago

11 

Super resolution with UpscalerJS - Made with TensorFlow.js
TensorFlow • 21K views • 9 months ago

12 

Yoha: Write in thin air with custom hand tracking - Made with TensorFlow.js
TensorFlow • 8.2K views • 9 months ago


Autoencoders that can dance with you - Made with TensorFlow.js

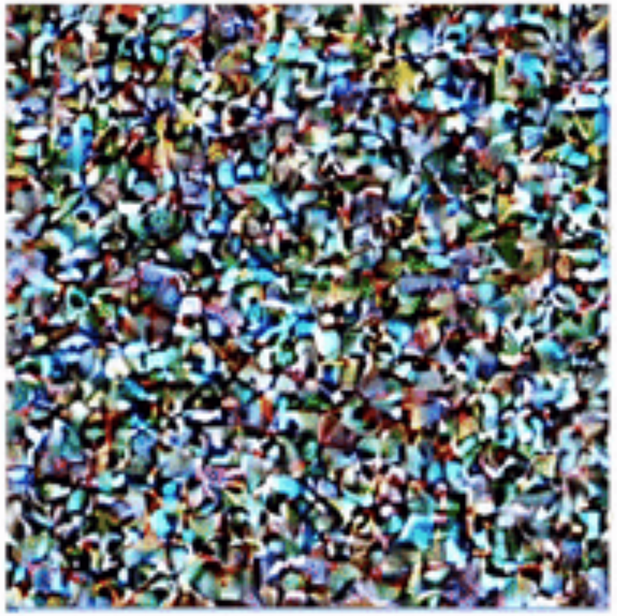
Web ML Community

Made with TensorFlow.js Highlights


3D Character Animation
Created by Richard Yee
Learn More:
https://goo.gle/37FtC2g

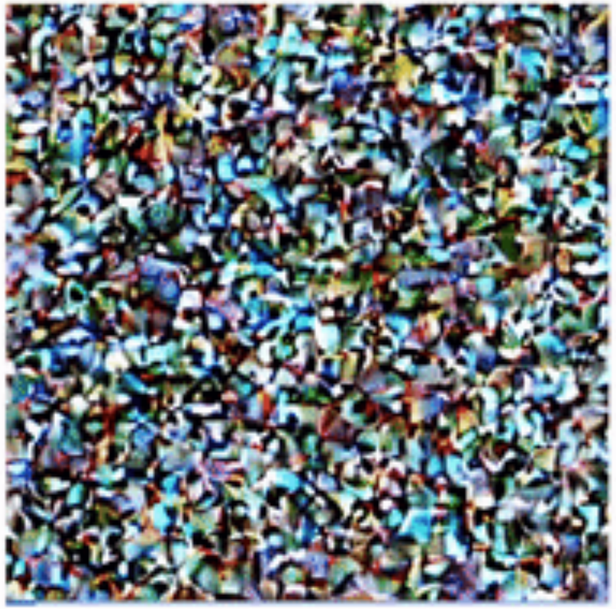

3D Character Animation
Created by Richard Yee
Learn More:
https://goo.gle/37FtC2g

WebGL



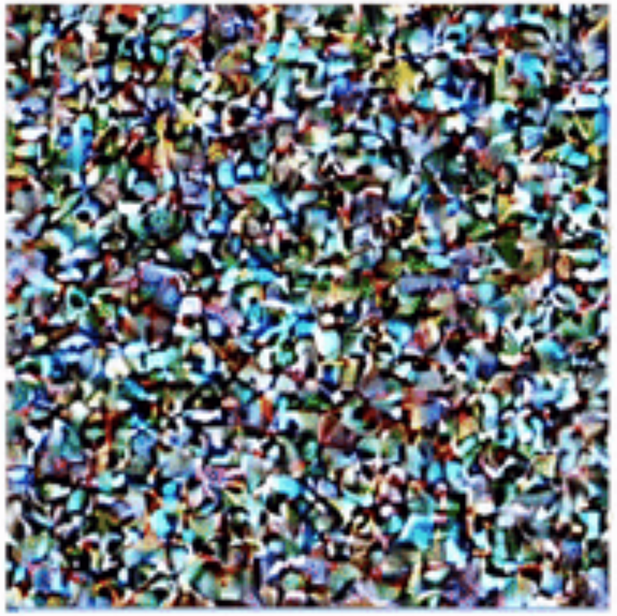
Prompt
A cat next to a window with sunlight streaming in

WebGPU



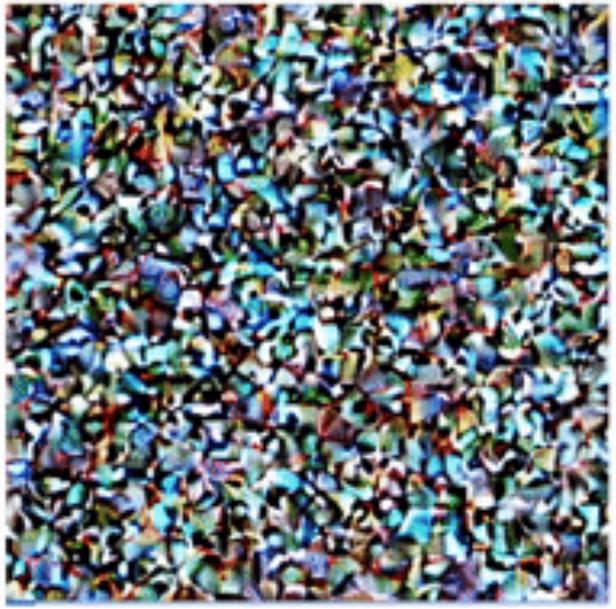
Prompt
A cat next to a window with sunlight streaming in

WebGL



Prompt
A cat next to a window with sunlight streaming in

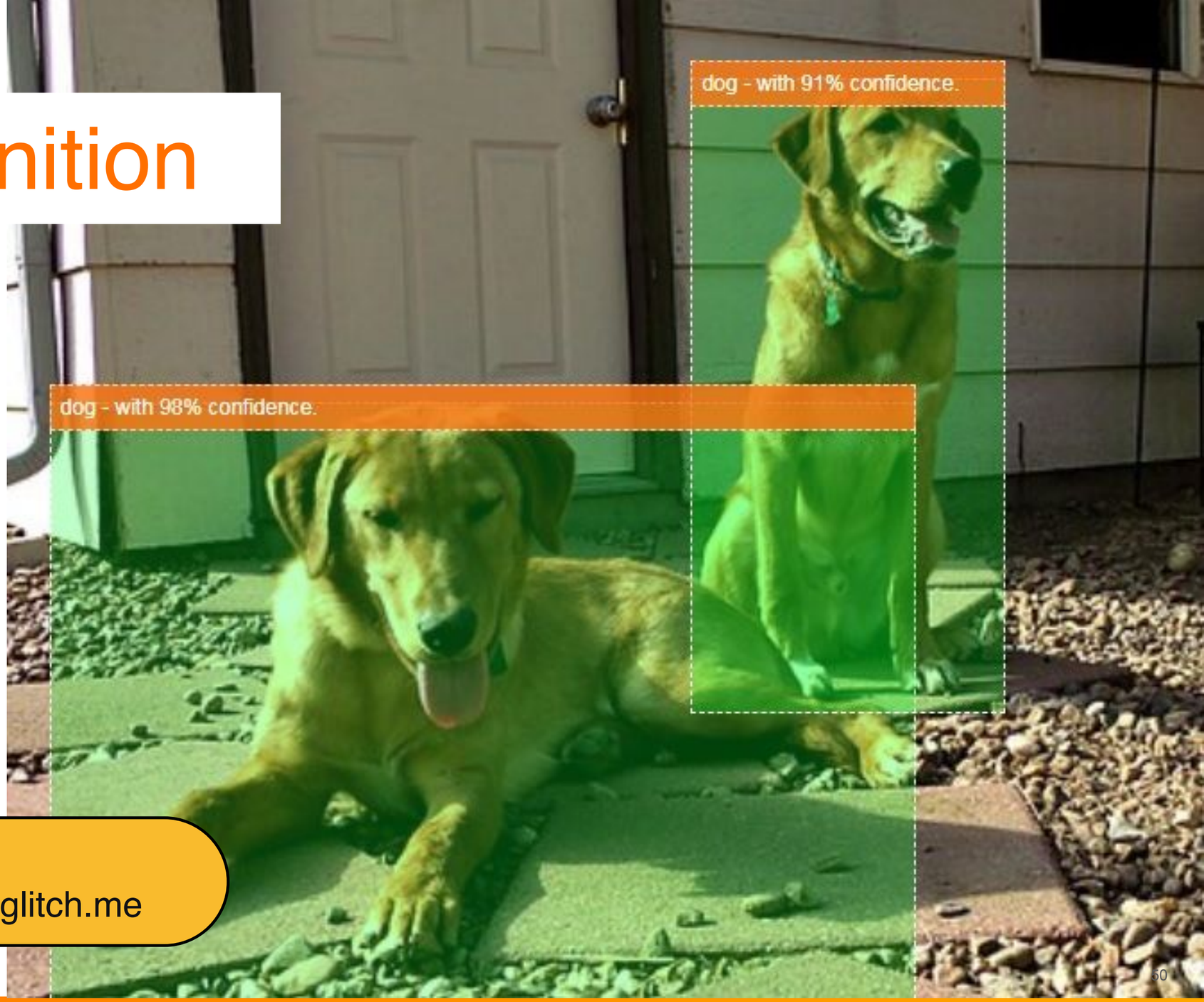
WebGPU



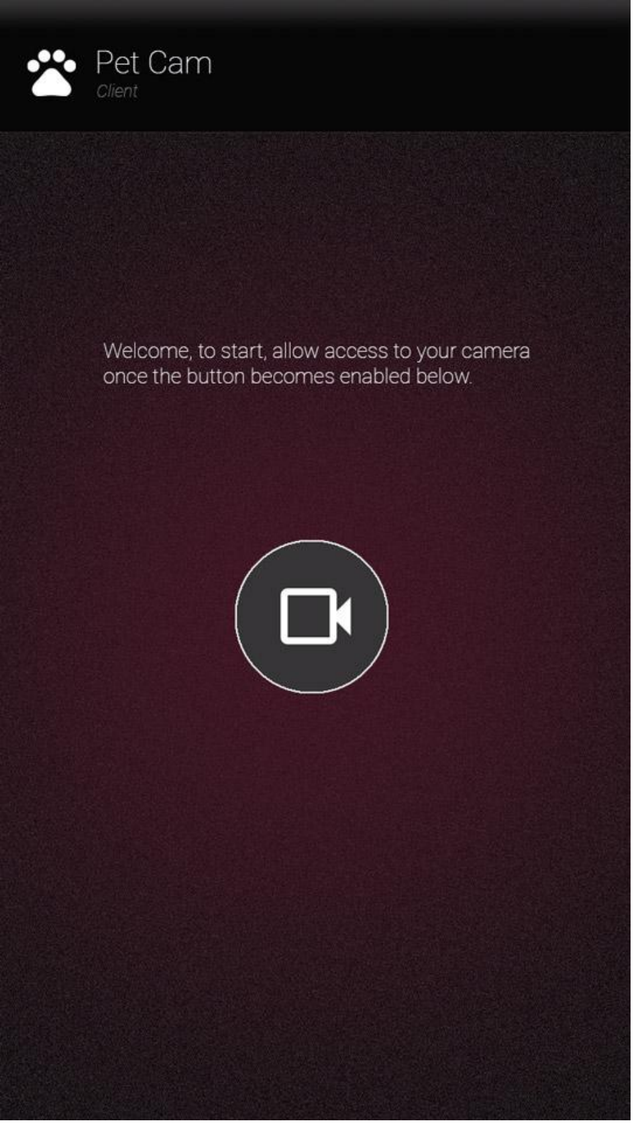
Prompt
A cat next to a window with sunlight streaming in

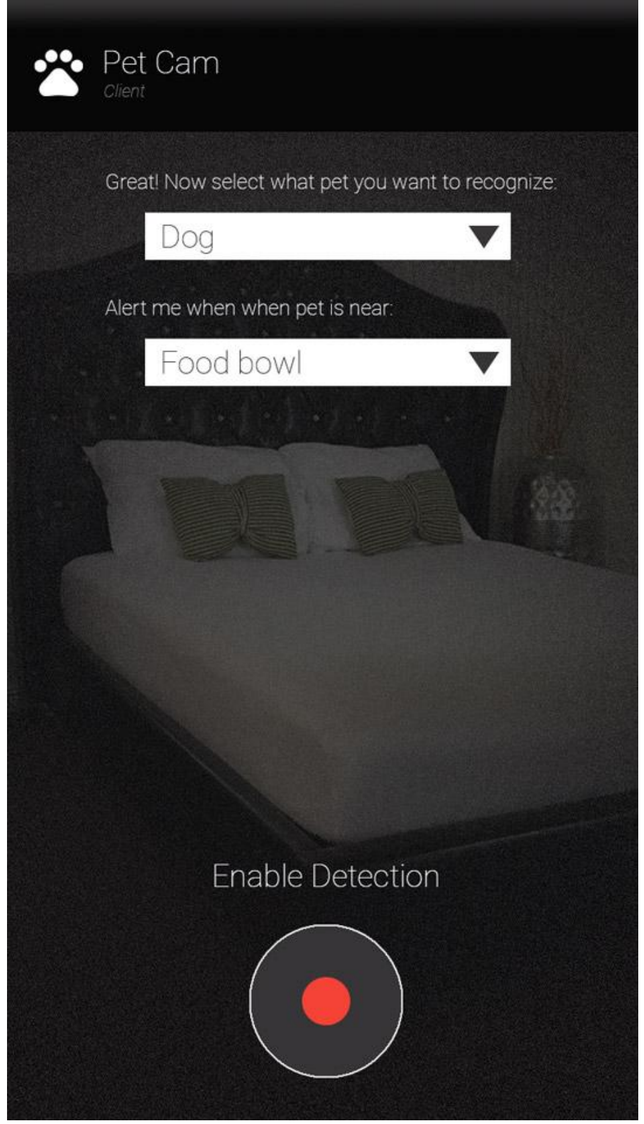

object detection, image recognition, speech recognition, token extraction, natural language processing, large language models, diffusion models, generative ai, translation, pose estimation, face keypoint estimation, hand pose estimation, body segmentation, semantic segmentation, decision trees, decision forests, multi layer perceptron, depth estimation, text toxicity detection, spam classification, universal sentence encoder, gesture recognition, gans,

Object Recognition



Demo:
tensorflow-js-object-detection.glitch.me





Use this knowledge to bring any creative idea to life, like this pet cam, for when you are out.


Pet Cam
Client
monitoring
bowl - with 96% confidence
See how I made it:
https://goo.gle/petcam


Pet Cam
Client
monitoring
bowl - with 96% confidence
See how I made it:
https://goo.gle/petcam

Text Toxicity Detection

Is a comment toxic or not?

Automatically filter out comments before they are even posted.

Or maybe you could hide offensive things via a chrome extension if a paragraph on page is deemed toxic.

What would you make?

text	identity attack	insult	obscene	severe toxicity	sexual explicit	threat	toxicity
We're dudes on computers, moron. You are quite astonishingly stupid.	false	true	false	false	false	false	true
Please stop. If you continue to vandalize Wikipedia, as you did to Kmart, you will be blocked from editing.	false	false	false	false	false	false	false
I respect your point of view, and when this discussion originated on 8th April I would have tended to agree with you.	false	false	false	false	false	false	false

Enter text below and click 'Classify' to add it to the table.

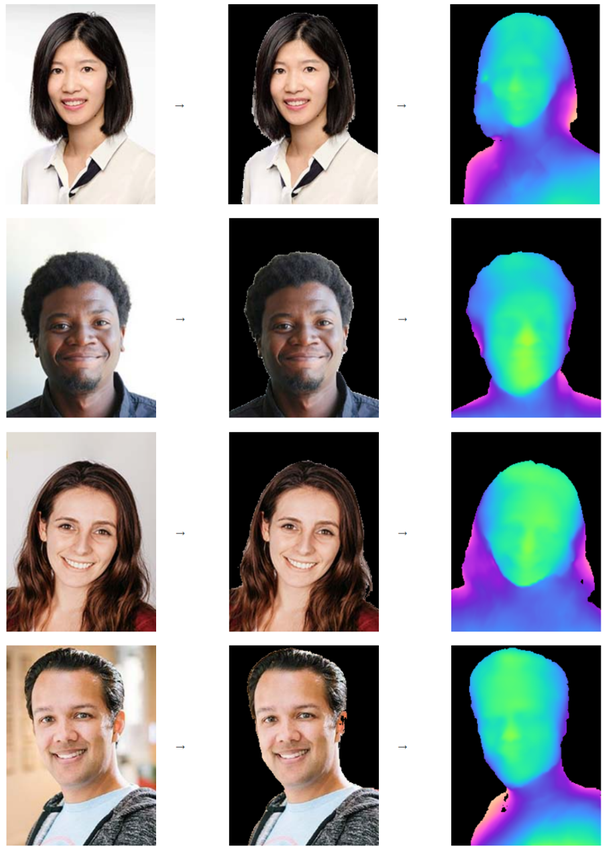
i.e. 'you suck'

CLASSIFY

Learn More:
https://goo.gle/toxicity

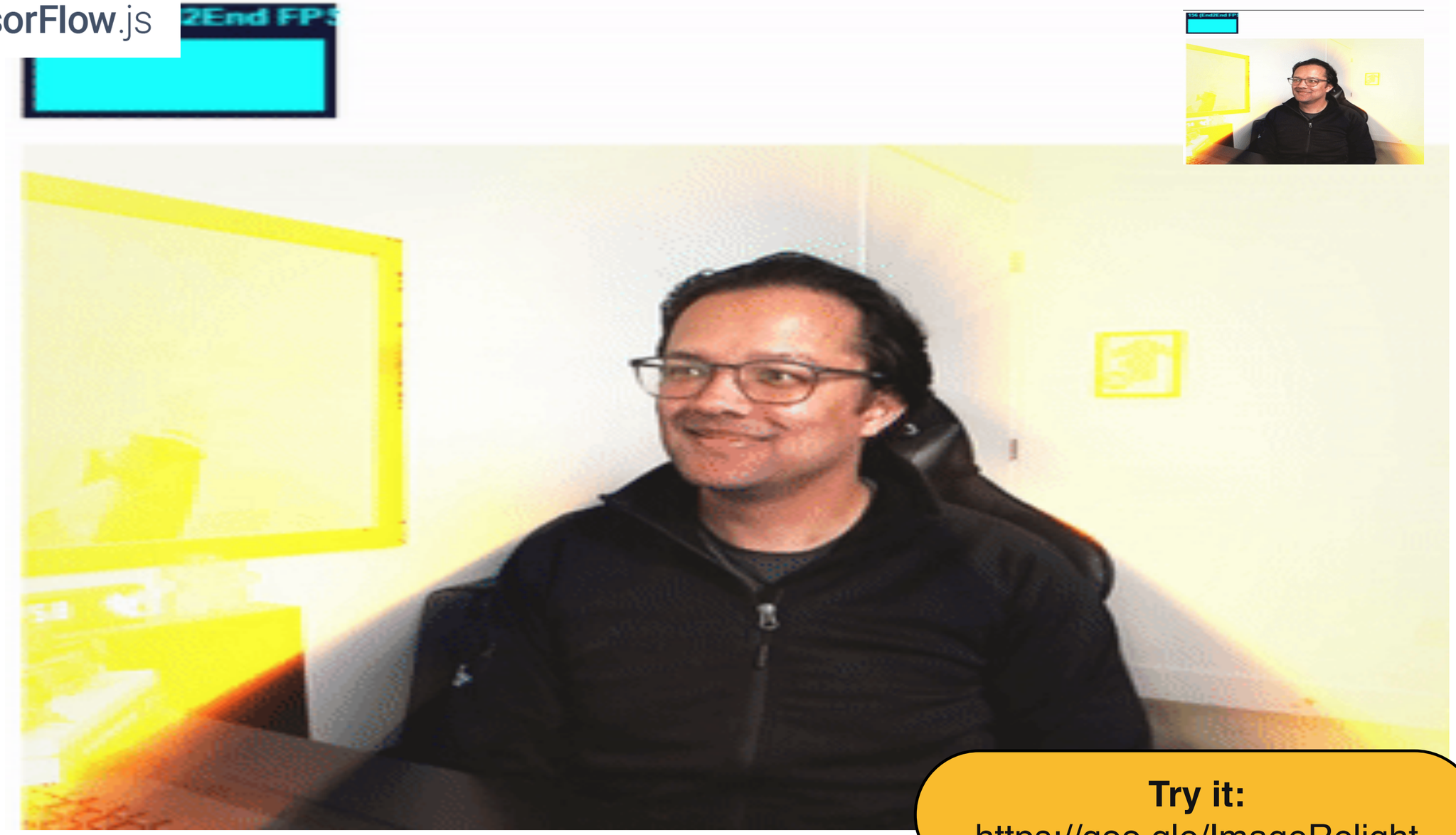
Selfie Depth Estimation

We have also produced a brand new model type for depth estimation of selfie photos.



Try it:
https://goo.gle/selfiedepth

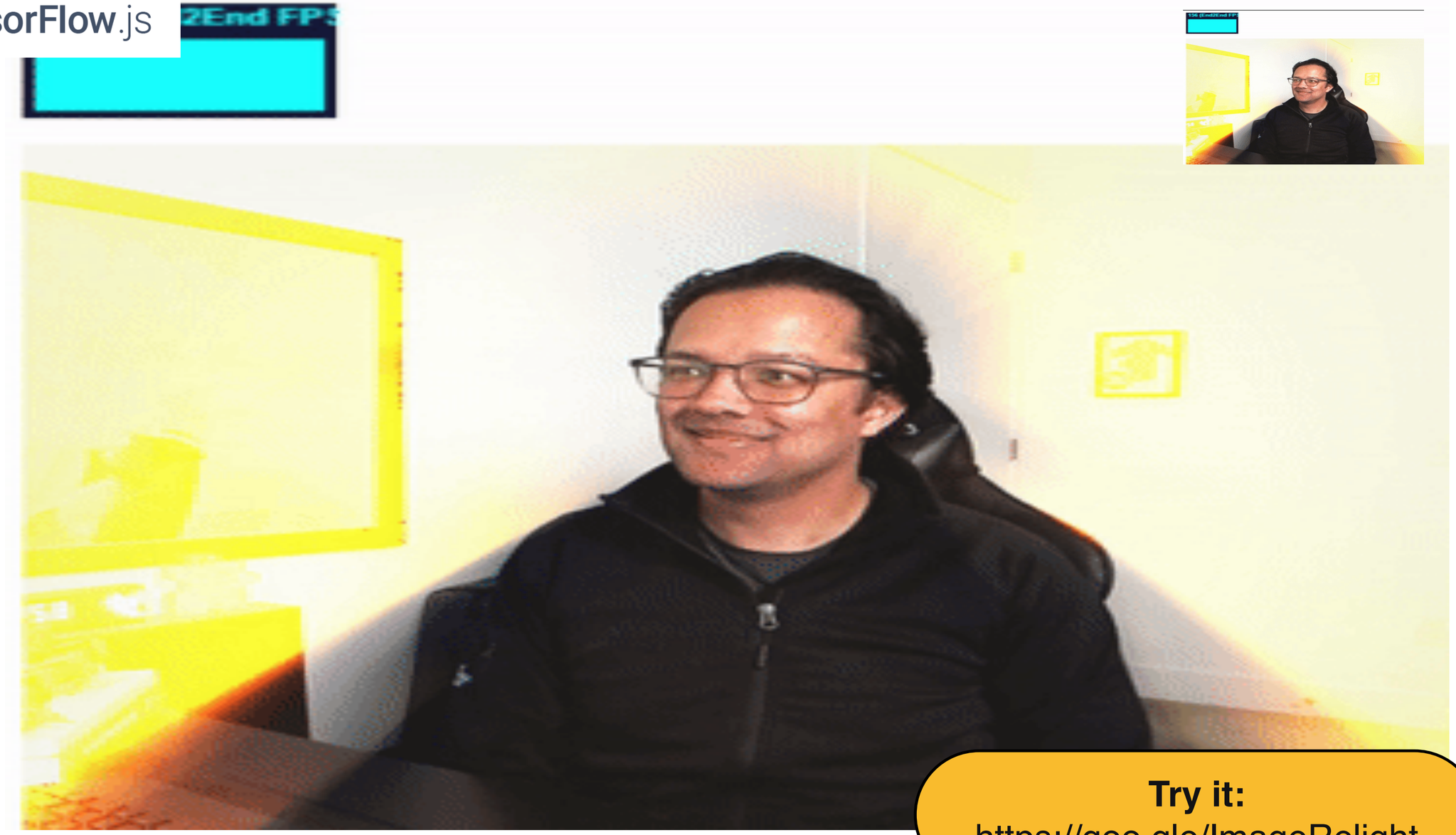
TensorFlow.js



Try it:
https://goo.gle/ImageRelight

Image relighting

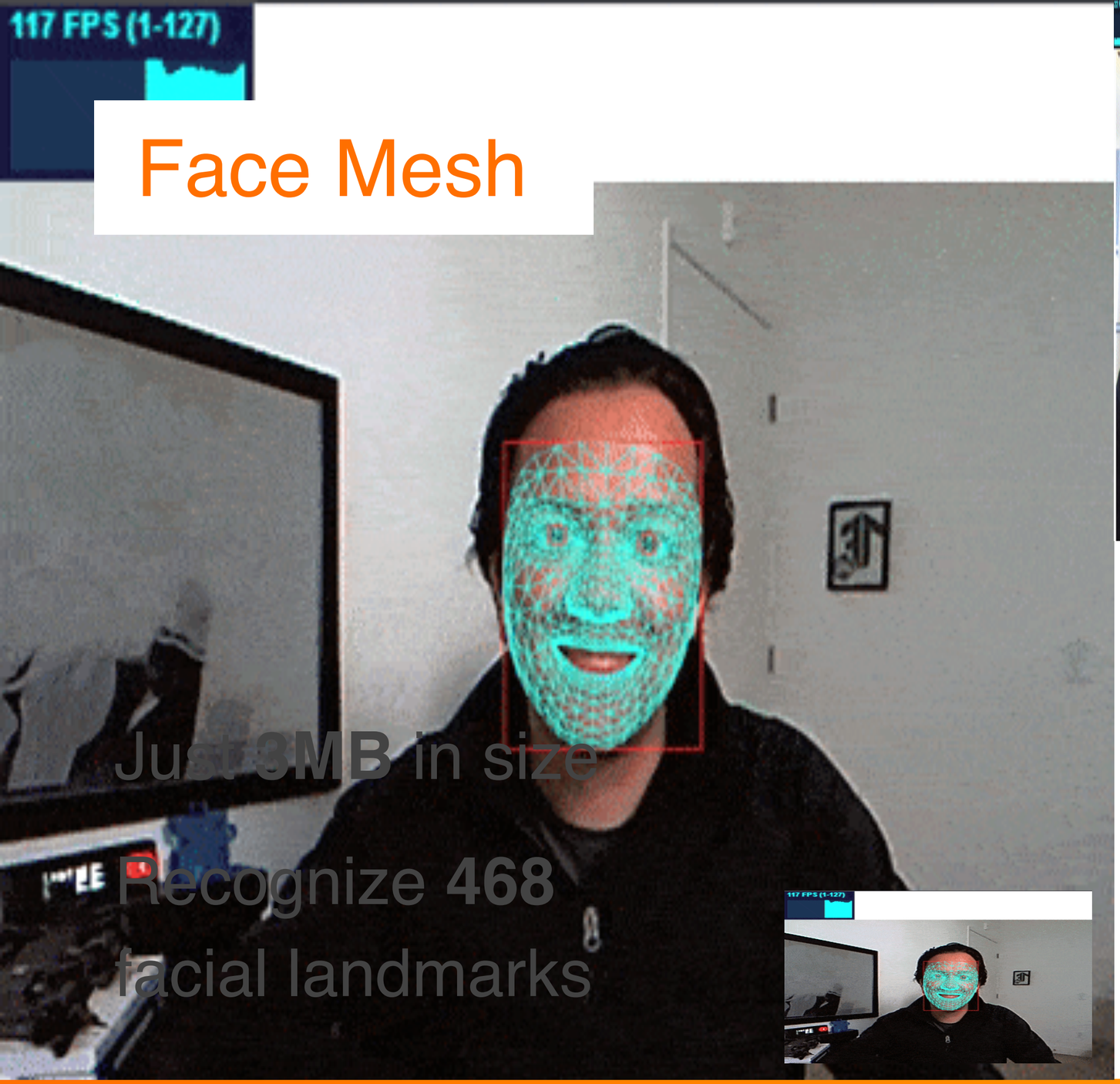
TensorFlow.js

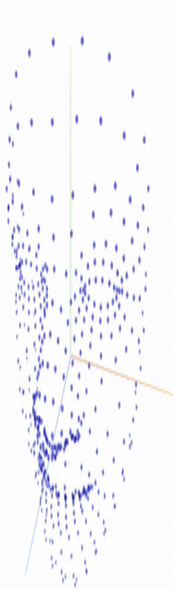


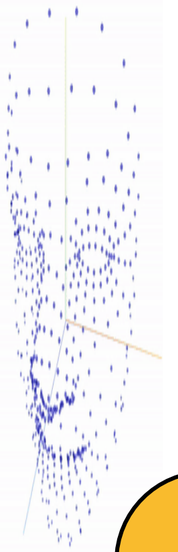
Try it:
https://goo.gle/ImageRelight

Image relighting

Face Mesh

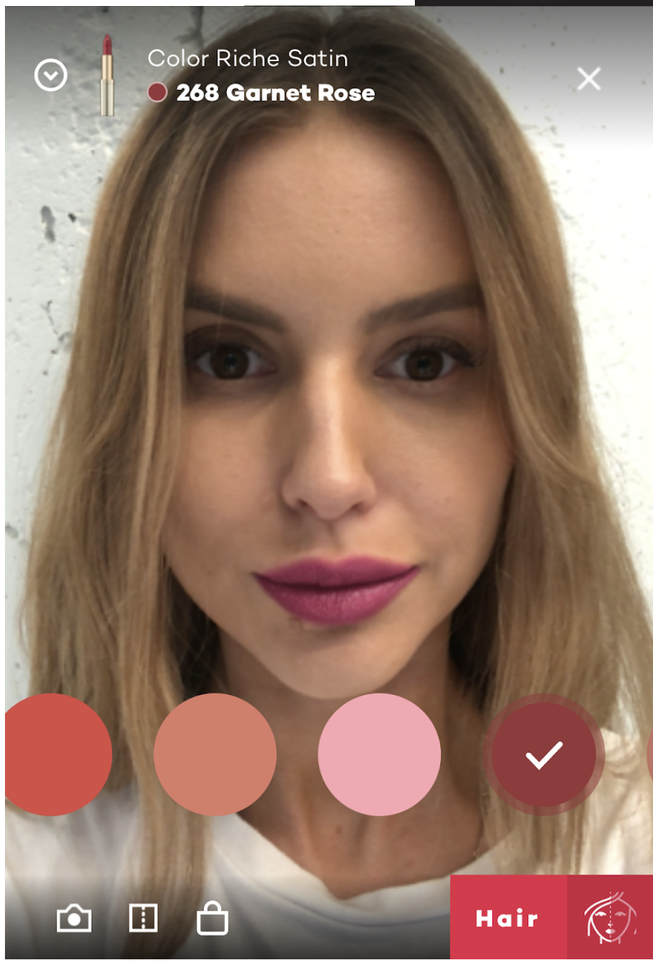






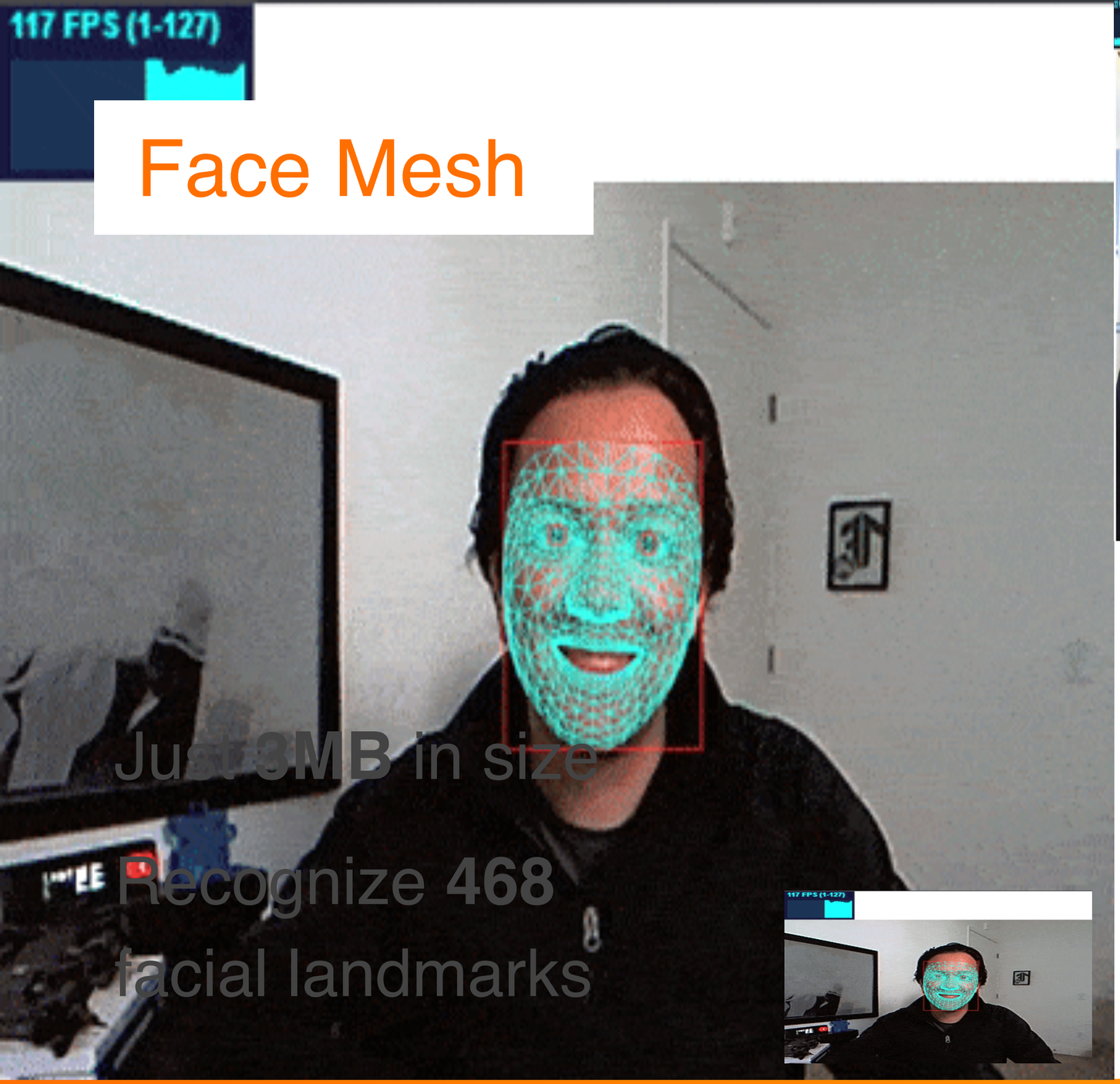
L'ORÉAL

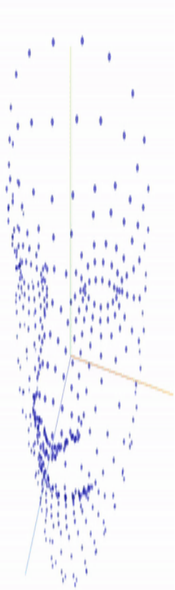
MODI FACE

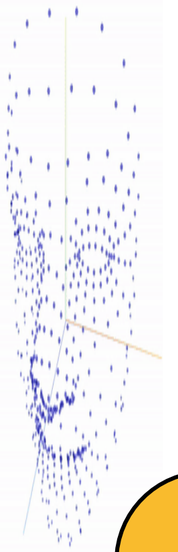


Try it:
https://goo.gle/FaceMesh

Face Mesh

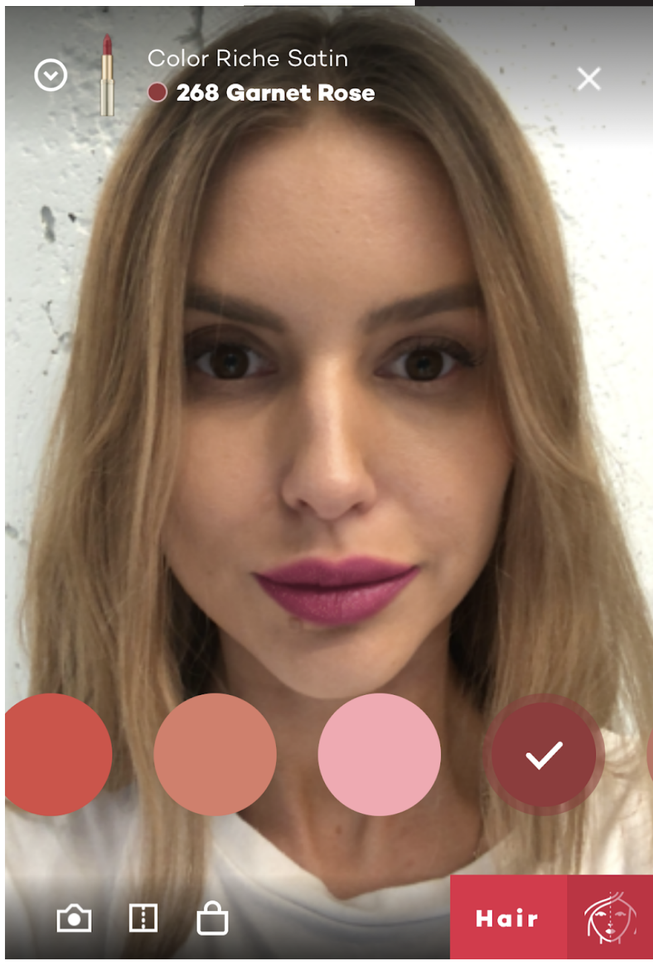






L'ORÉAL

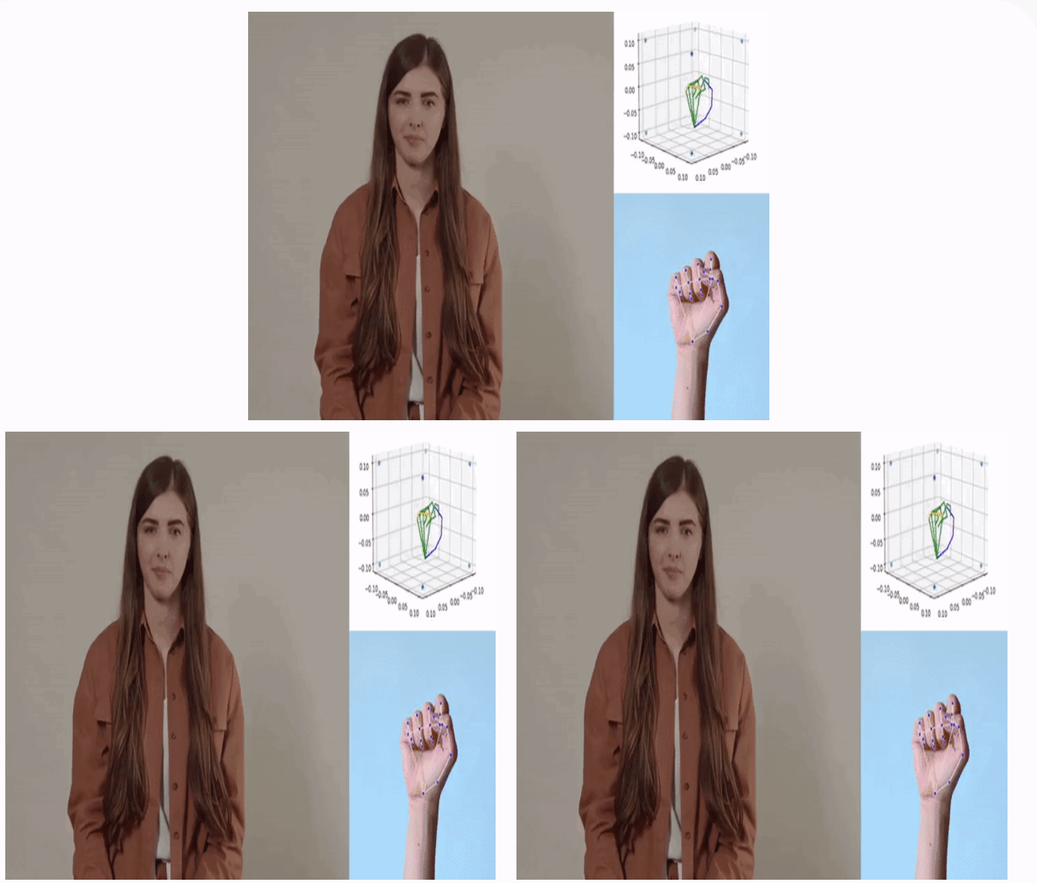
MODI FACE



Try it:
https://goo.gle/FaceMesh

Hand Pose Estimation

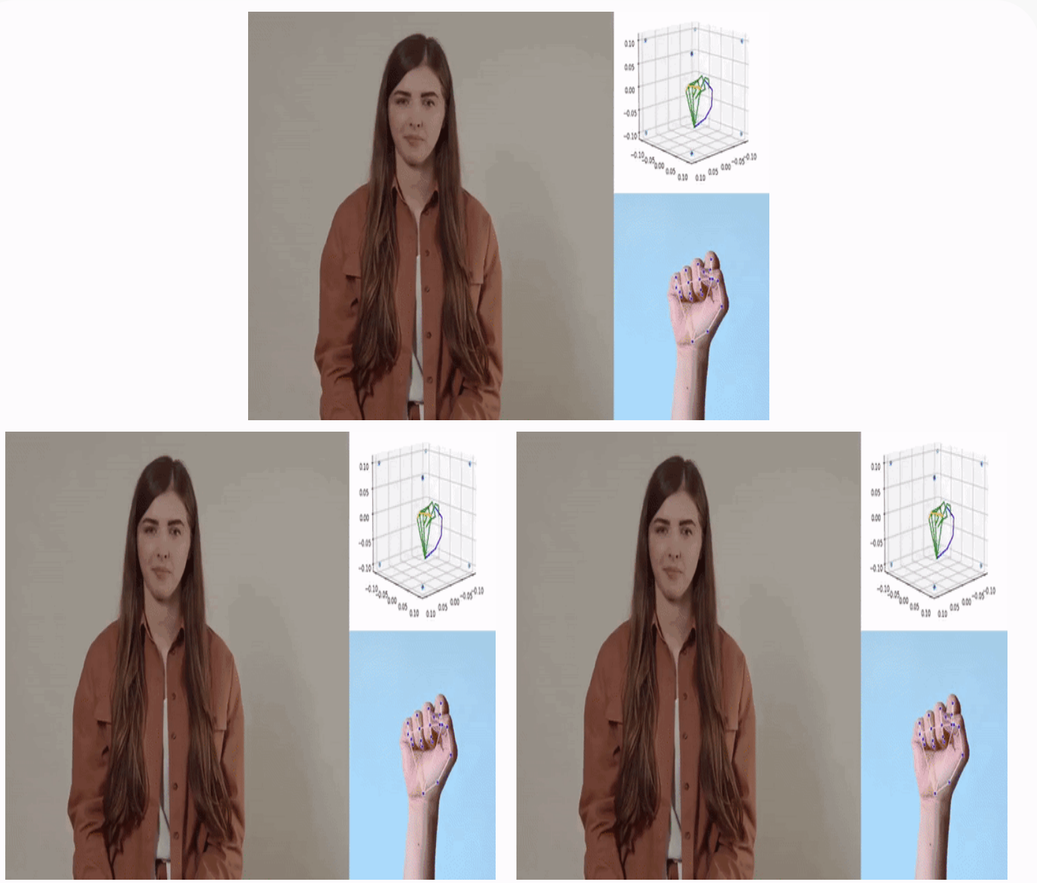
Track multiple hands in 3D or 2D and with higher precision than before.



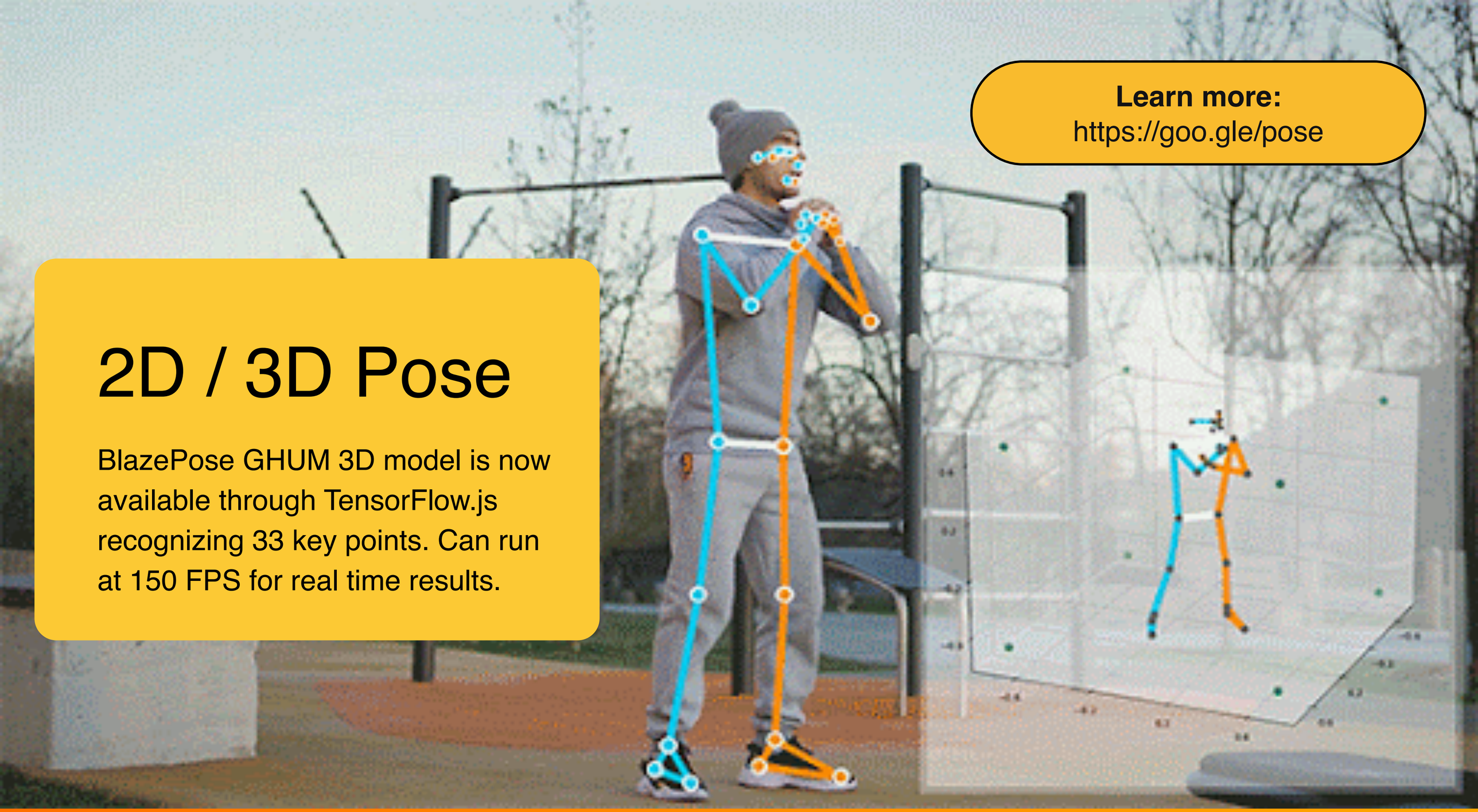
Try it:
https://goo.gle/HandPose

Hand Pose Estimation

Track multiple hands in 3D or 2D and with higher precision than before.



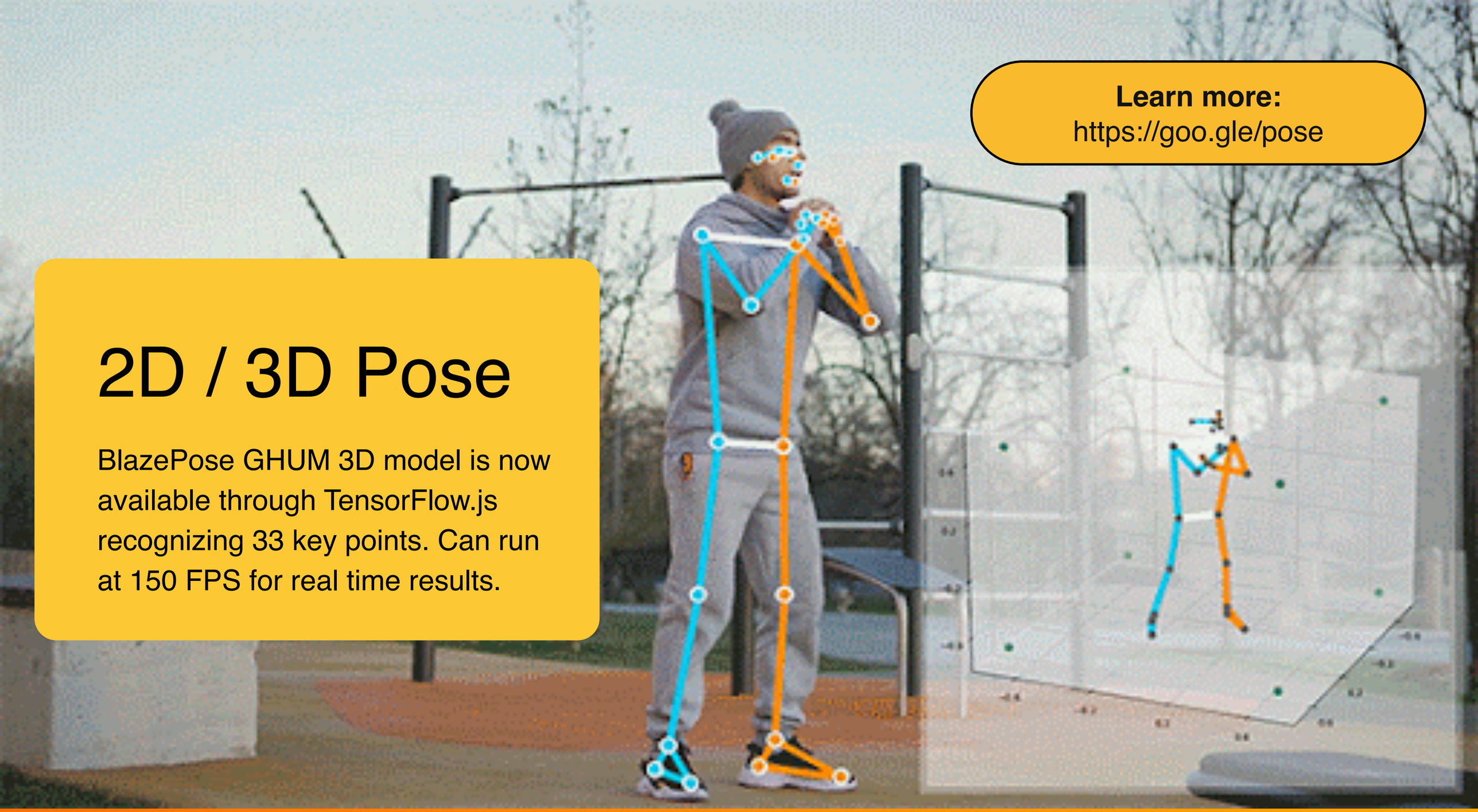
Try it:
https://goo.gle/HandPose



Learn more:
https://goo.gle/pose

2D / 3D Pose

BlazePose GHUM 3D model is now available through TensorFlow.js recognizing 33 key points. Can run at 150 FPS for real time results.



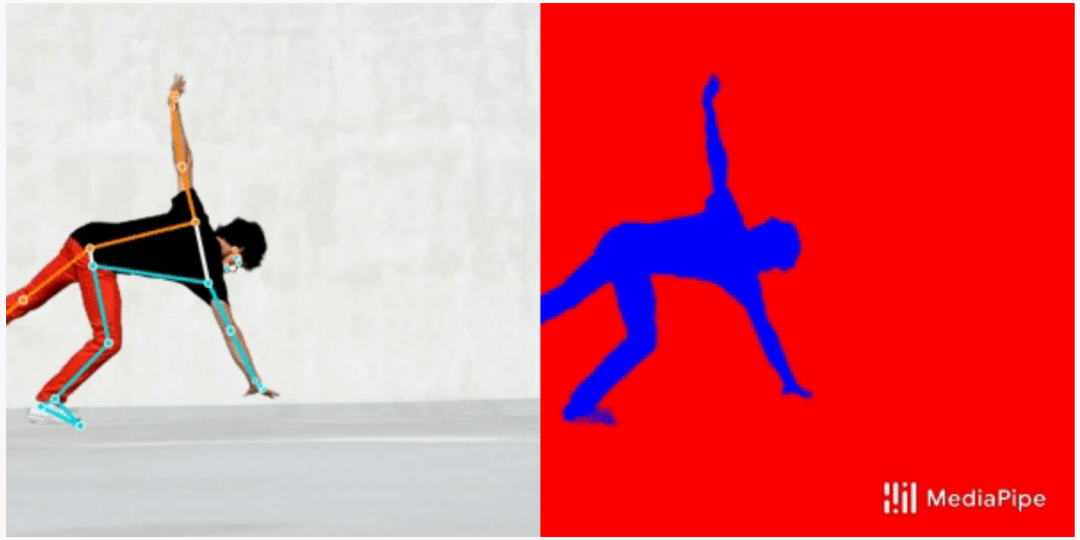
Learn more:
https://goo.gle/pose

2D / 3D Pose

BlazePose GHUM 3D model is now available through TensorFlow.js recognizing 33 key points. Can run at 150 FPS for real time results.

Full Body Segmentation

Builds upon the pose model you just saw allowing you to get both pose and segmentation returned simultaneously.

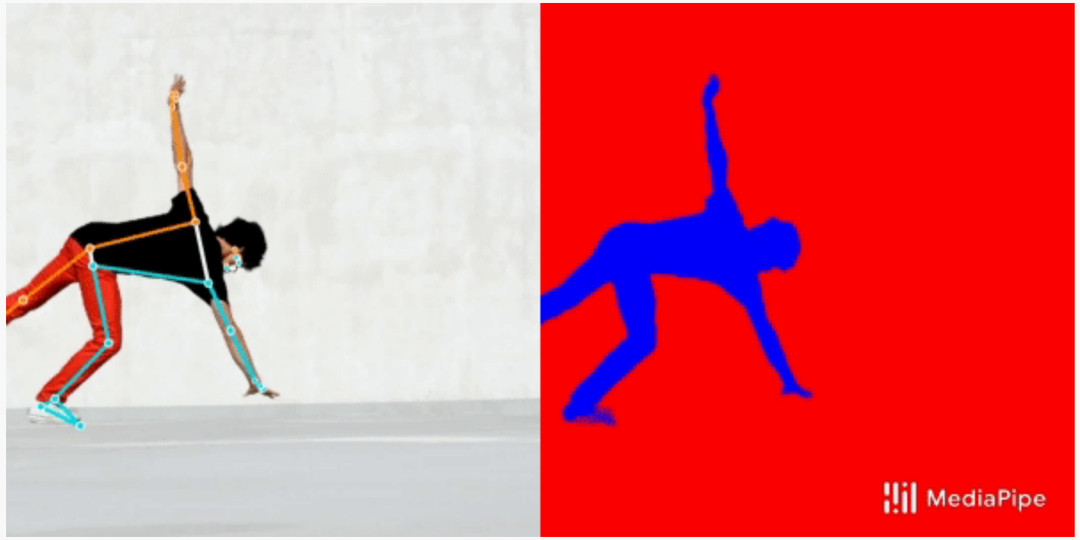


Pose + Segmentation

Learn more:
https://goo.gle/PoseSeg

Full Body Segmentation

Builds upon the pose model you just saw allowing you to get both pose and segmentation returned simultaneously.



Pose + Segmentation

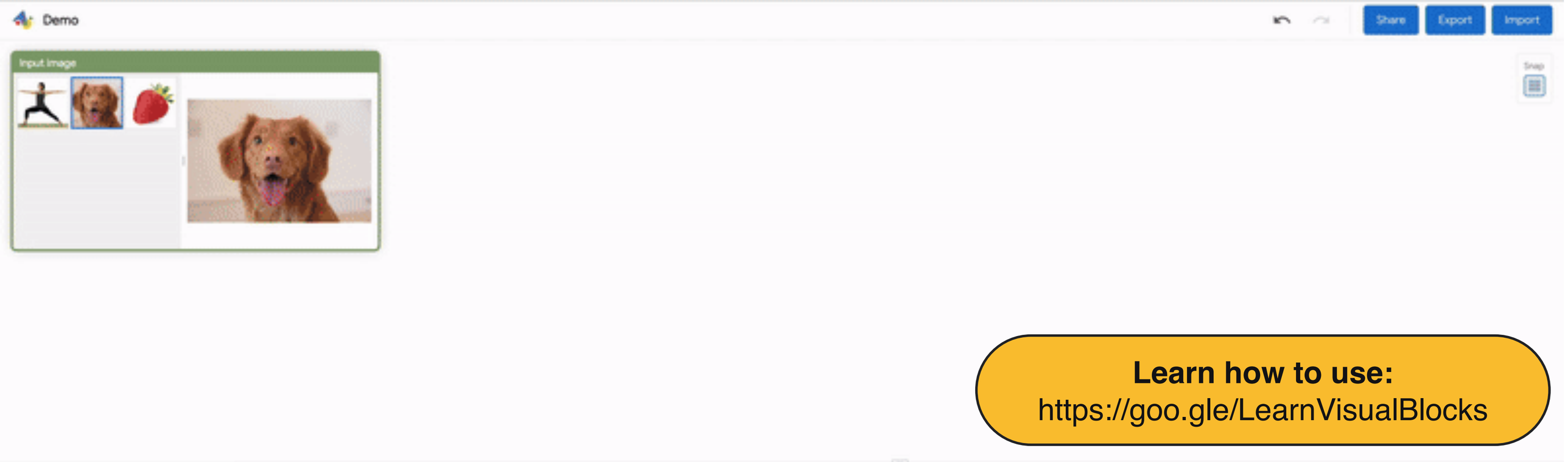
Learn more:
https://goo.gle/PoseSeg


Selfie
Segmentation
Learn More:
https://goo.gle/SelfieSeg
MediaPipe

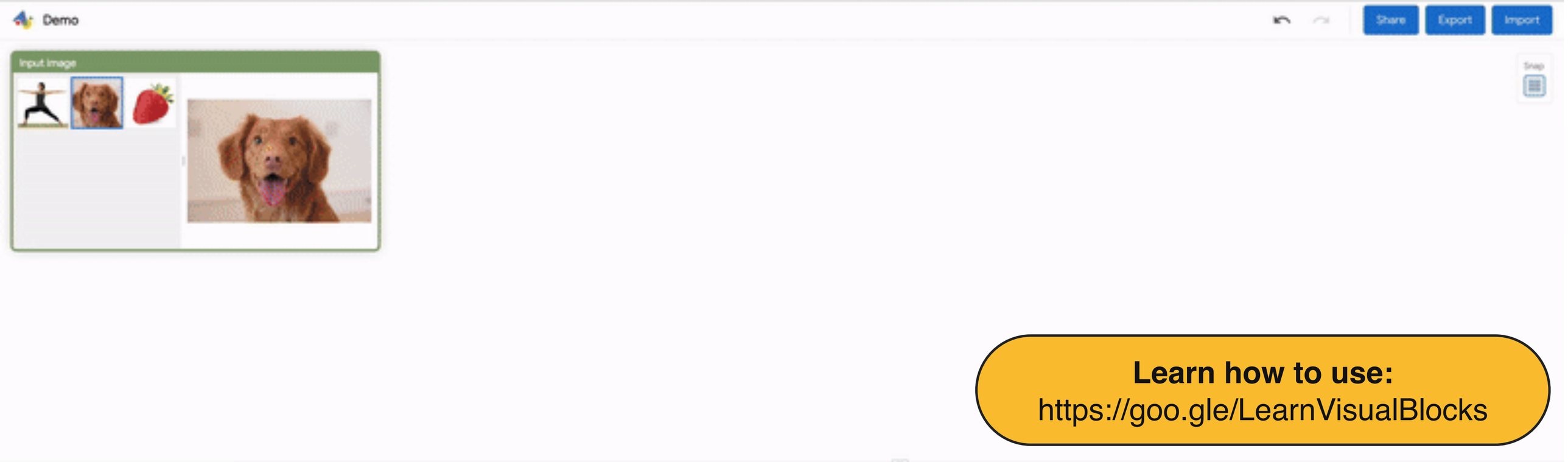

Selfie
Segmentation
Learn More:
https://goo.gle/SelfieSeg
MediaPipe


Try it yourself:
https://goo.gle/VisualBlocks


Try it yourself:
https://goo.gle/VisualBlocks

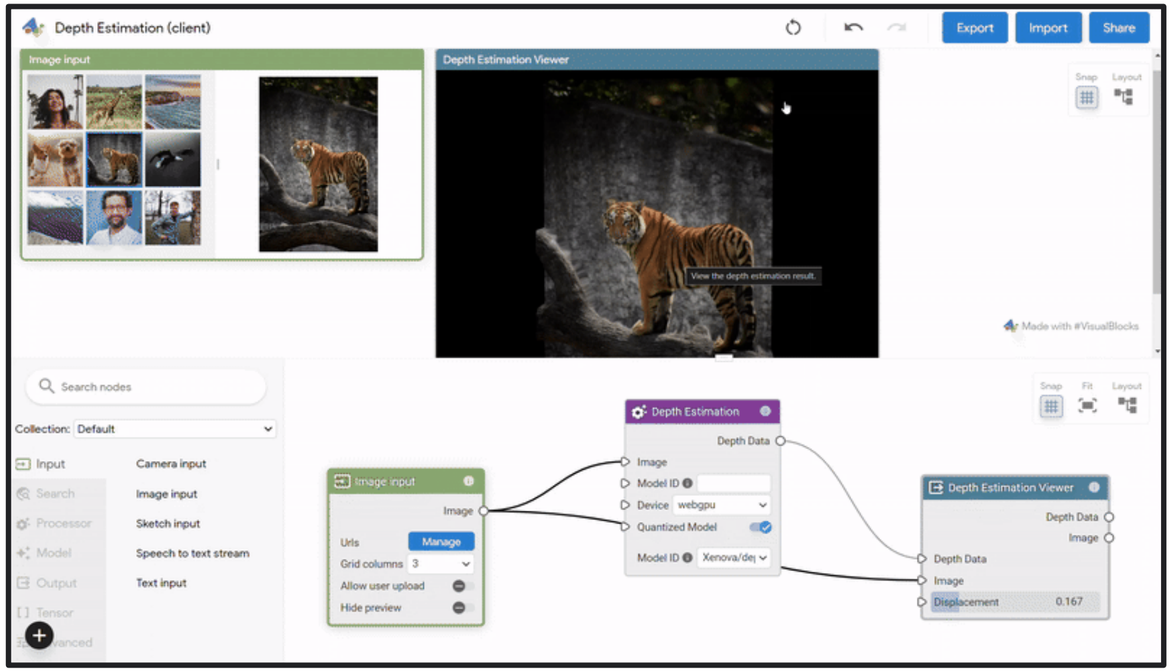


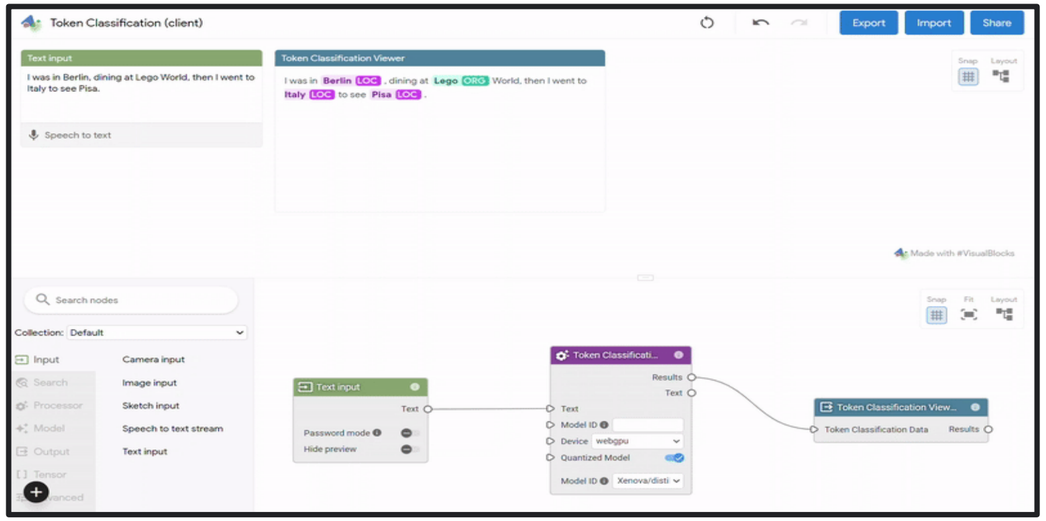
Note: Capture is in real time but edited to highlight key stages of creation.

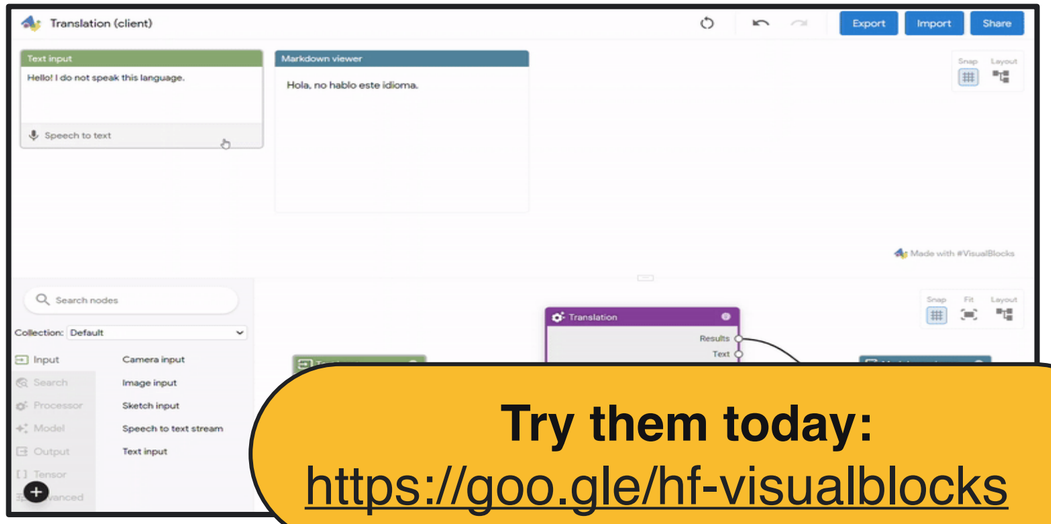


Note: Capture is in real time but edited to highlight key stages of creation.

Create advanced web apps to prototype faster





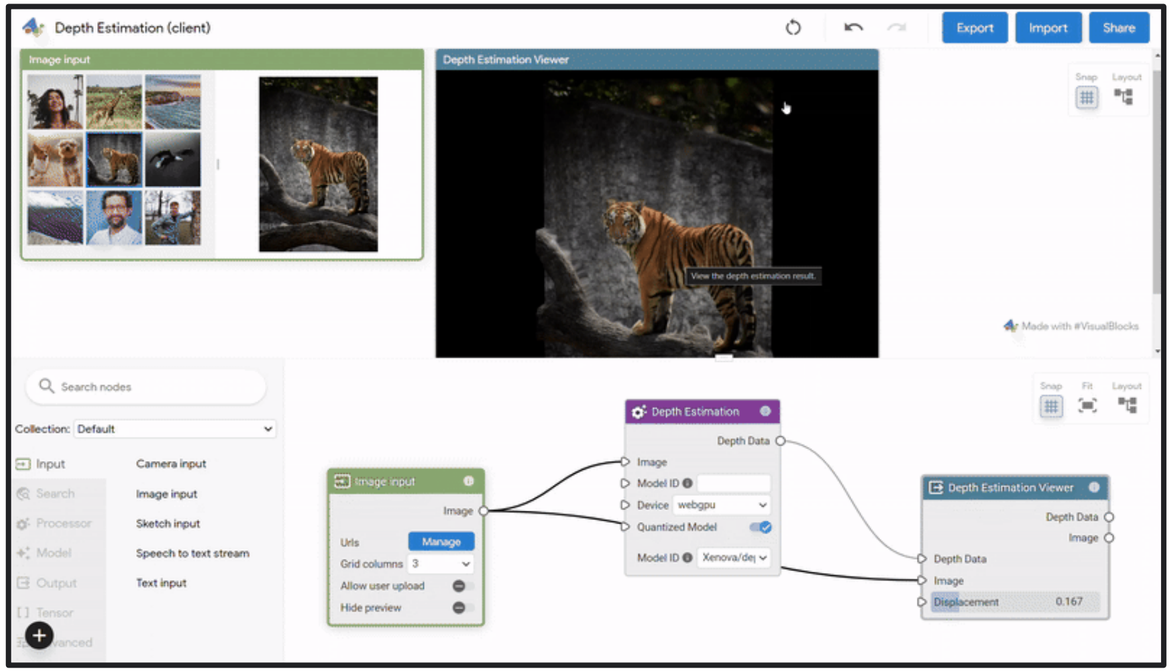


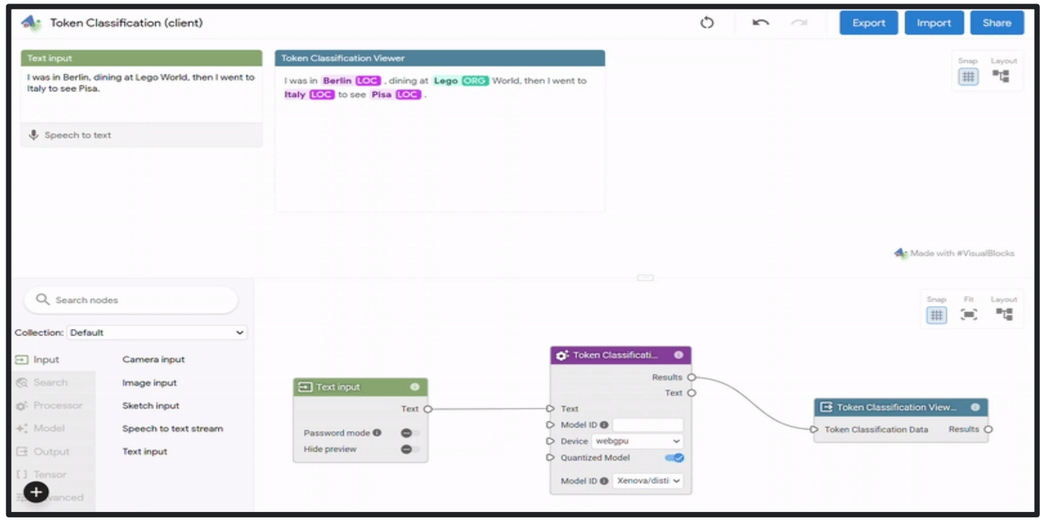
Bring AI ideas to life with this Hugging Face and Visual Blocks collaboration.

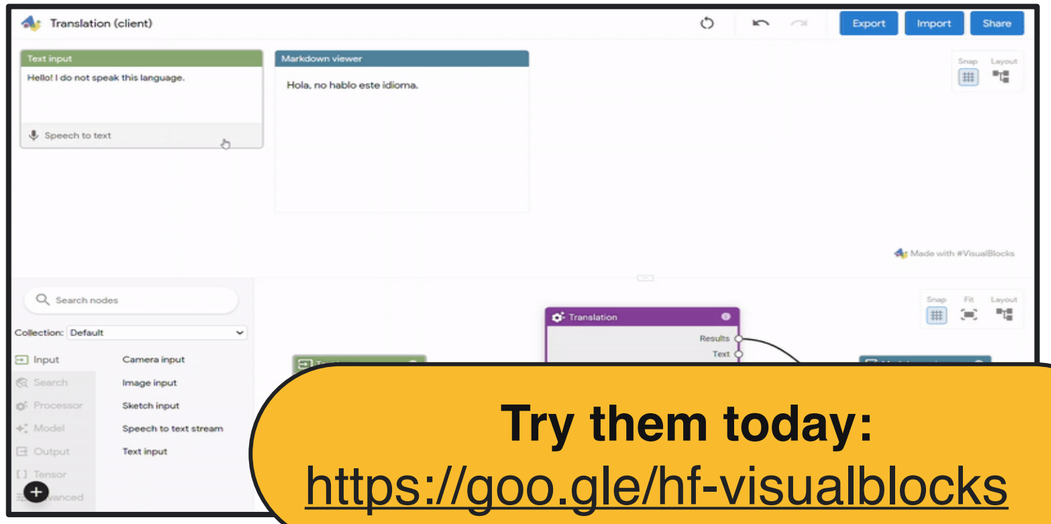
Make 2D images 3D, find key tokens in sentences to make smarter choices, or translate between languages locally!

Try them today:
https://goo.gle/hf-visualblocks

Create advanced web apps to prototype faster



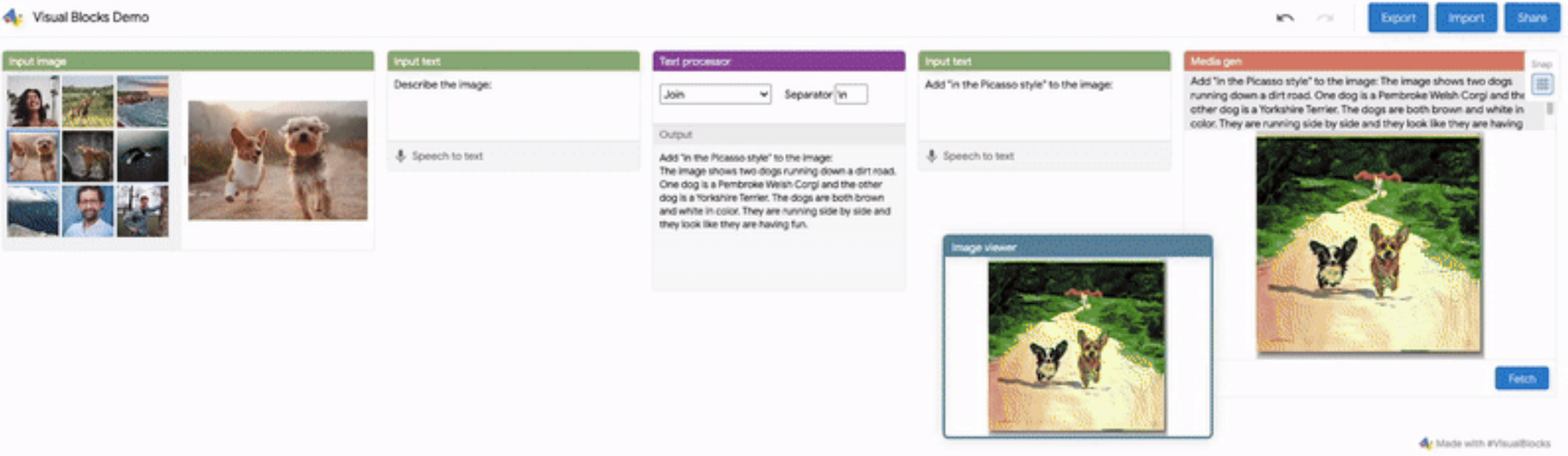


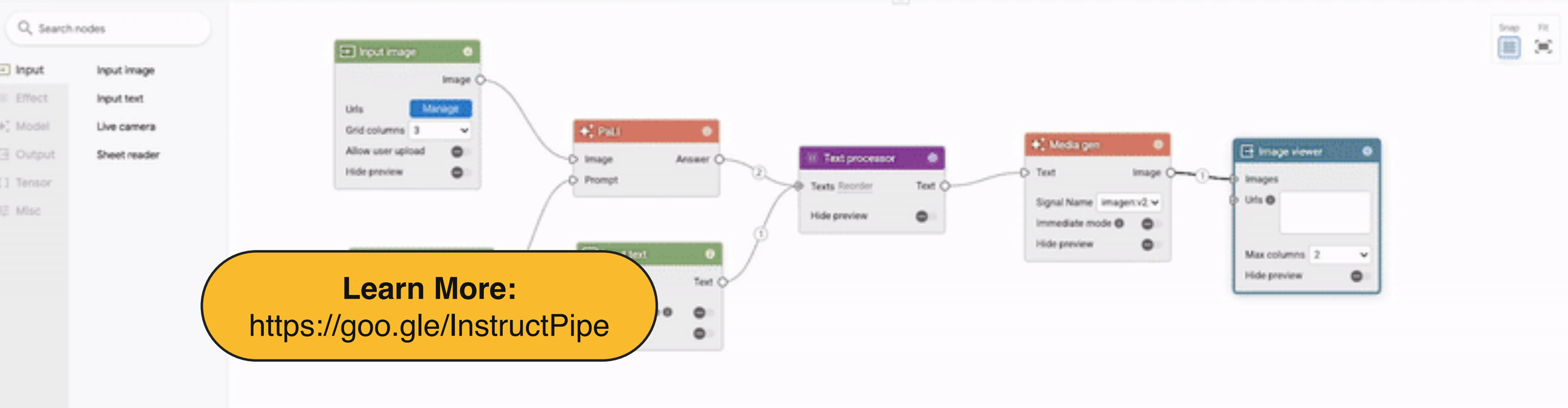


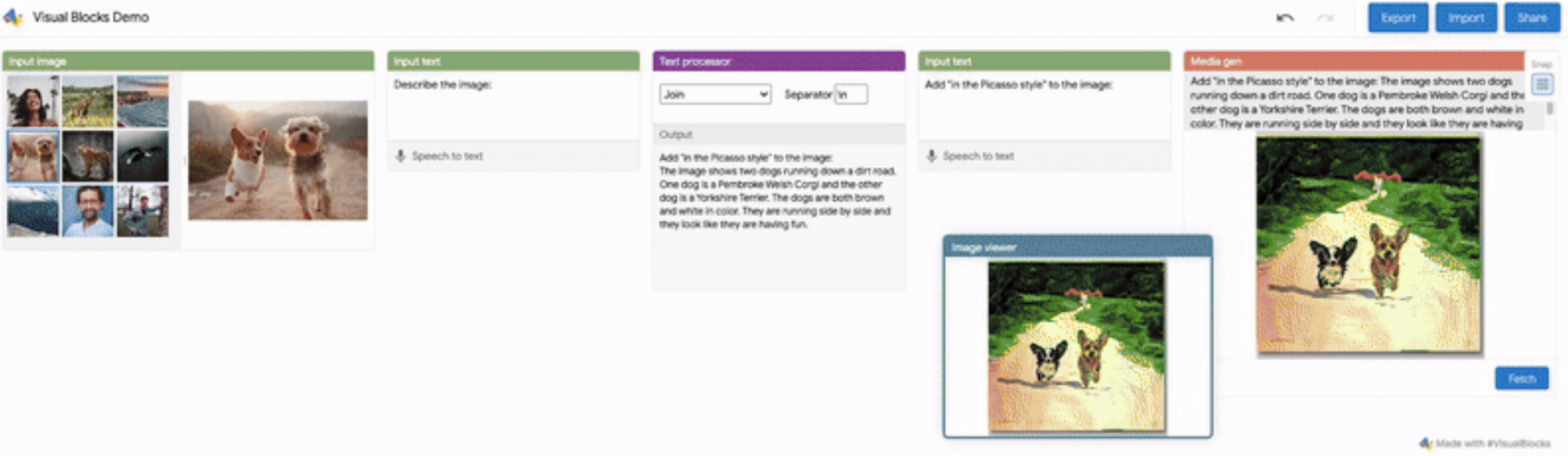
Bring AI ideas to life with this Hugging Face and Visual Blocks collaboration.

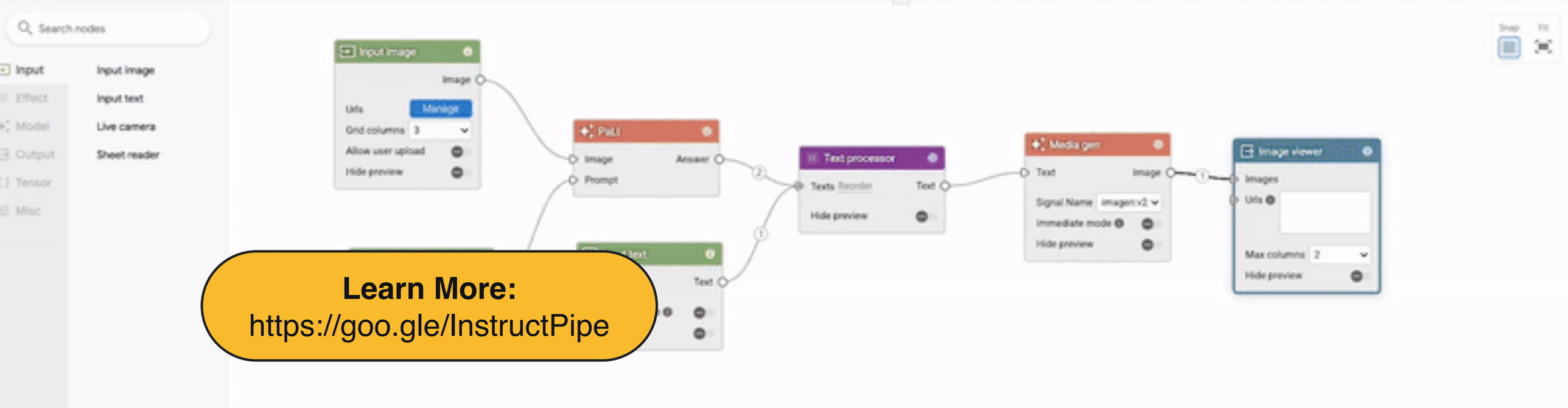
Make 2D images 3D, find key tokens in sentences to make smarter choices, or translate between languages locally!

Try them today:
https://goo.gle/hf-visualblocks


Visual Blocks Demo
Export
Import
Share
Input image
Input text
Describe the image:
Speech to text
Text processor
Join
Separator
\n
Output
Add "in the Picasso style" to the image:
The image shows two dogs running down a dirt road. One dog is a Pembroke Welsh Corgi and the other dog is a Yorkshire Terrier. The dogs are both brown and white in color. They are running side by side and they look like they are having fun.
Input text
Add "in the Picasso style" to the image:
Speech to text
Media gen
Add "in the Picasso style" to the image: The image shows two dogs running down a dirt road. One dog is a Pembroke Welsh Corgi and the other dog is a Yorkshire Terrier. The dogs are both brown and white in color. They are running side by side and they look like they are having
Fetch
Image viewer
Made with #VisualBlocks


Search nodes
Input
Input image
Input text
Live camera
Sheet reader
Effect
Model
Output
Tensor
Misc
Input image
Image
Urls
Manage
Grid columns
3
Allow user upload
Hide preview
PaLI
Image
Prompt
Answer
Text processor
Texts
Reorder
Text
Hide preview
Media gen
Text
Image
Signal Name
imagen v2
Immediate mode
Hide preview
Image viewer
Images
Urls
Max columns
2
Hide preview
Text
Learn More:
https://goo.gle/InstructPipe


Visual Blocks Demo
Export
Import
Share
Input image
Input text
Describe the image:
Speech to text
Text processor
Join
Separator
\n
Output
Add "in the Picasso style" to the image:
The image shows two dogs running down a dirt road. One dog is a Pembroke Welsh Corgi and the other dog is a Yorkshire Terrier. The dogs are both brown and white in color. They are running side by side and they look like they are having fun.
Input text
Add "in the Picasso style" to the image:
Speech to text
Media gen
Add "in the Picasso style" to the image: The image shows two dogs running down a dirt road. One dog is a Pembroke Welsh Corgi and the other dog is a Yorkshire Terrier. The dogs are both brown and white in color. They are running side by side and they look like they are having
Fetch
Image viewer
Made with #VisualBlocks


Search nodes
Input
Input image
Input text
Live camera
Sheet reader
Effect
Model
Output
Tensor
Misc
Input image
Image
Urls
Manage
Grid columns
3
Allow user upload
Hide preview
PaLI
Image
Prompt
Answer
Text processor
Texts
Reorder
Text
Hide preview
Media gen
Text
Image
Signal Name
imagen v2
Immediate mode
Hide preview
Image viewer
Images
Urls
Max columns
2
Hide preview
Text
Learn More:
https://goo.gle/InstructPipe


28 29 30 31

Flights

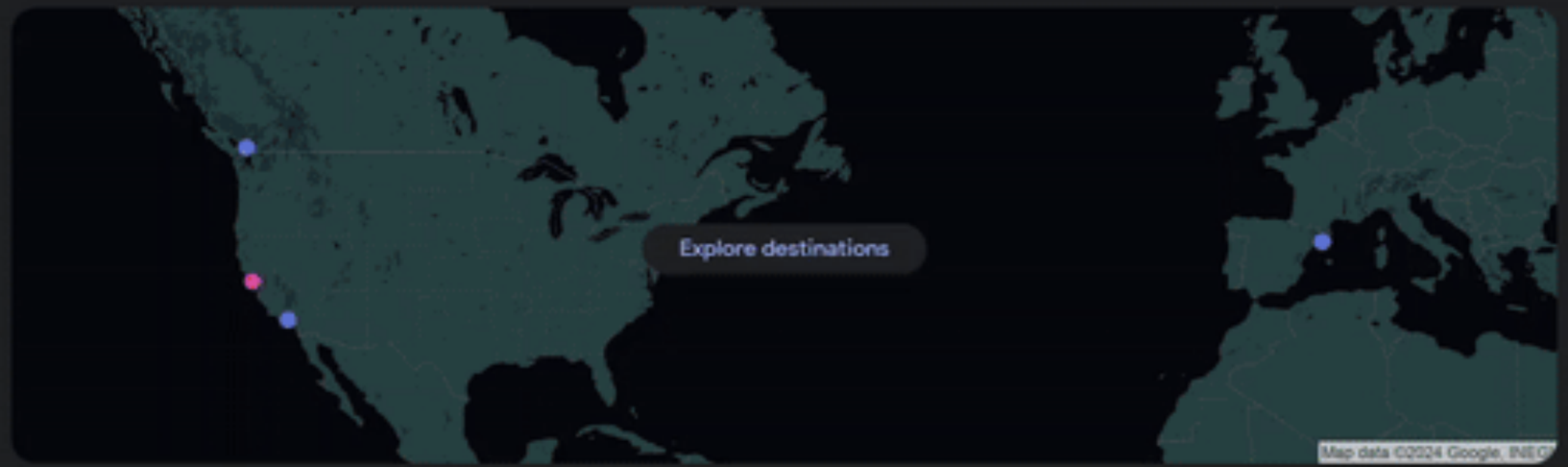
Round trip | 1 | Economy

San Francisco | Where to? | Fri, 1 Nov | Sat, 9 Nov

Explore

Find cheap flights from San Francisco to anywhere

San Francisco | Oakland | San Jose | Sacramento



Flights

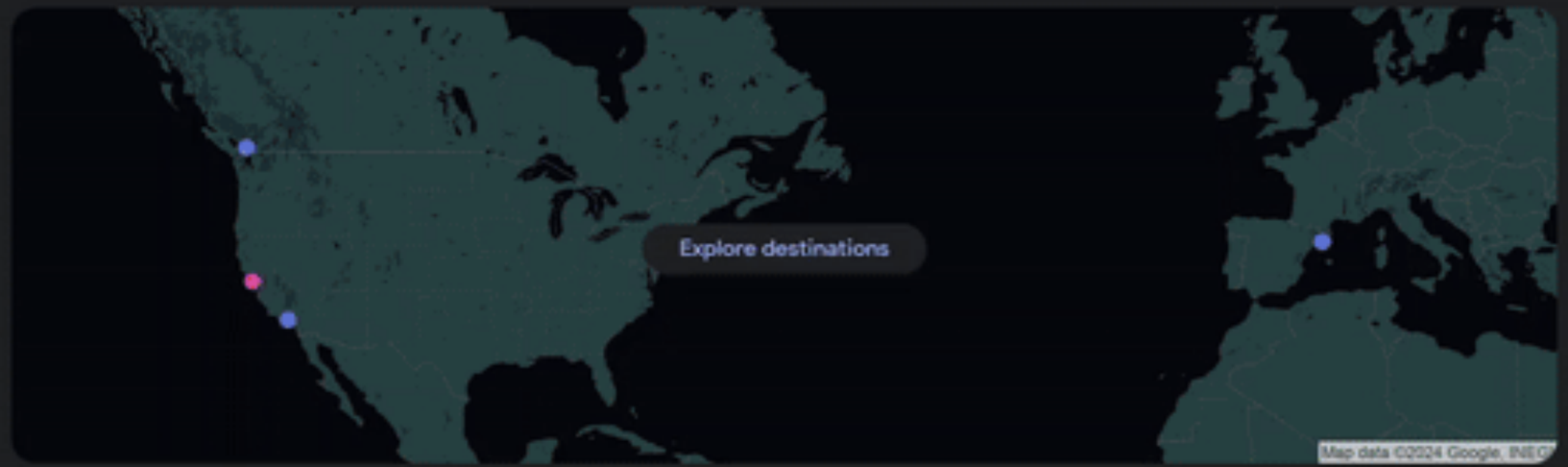
Round trip | 1 | Economy

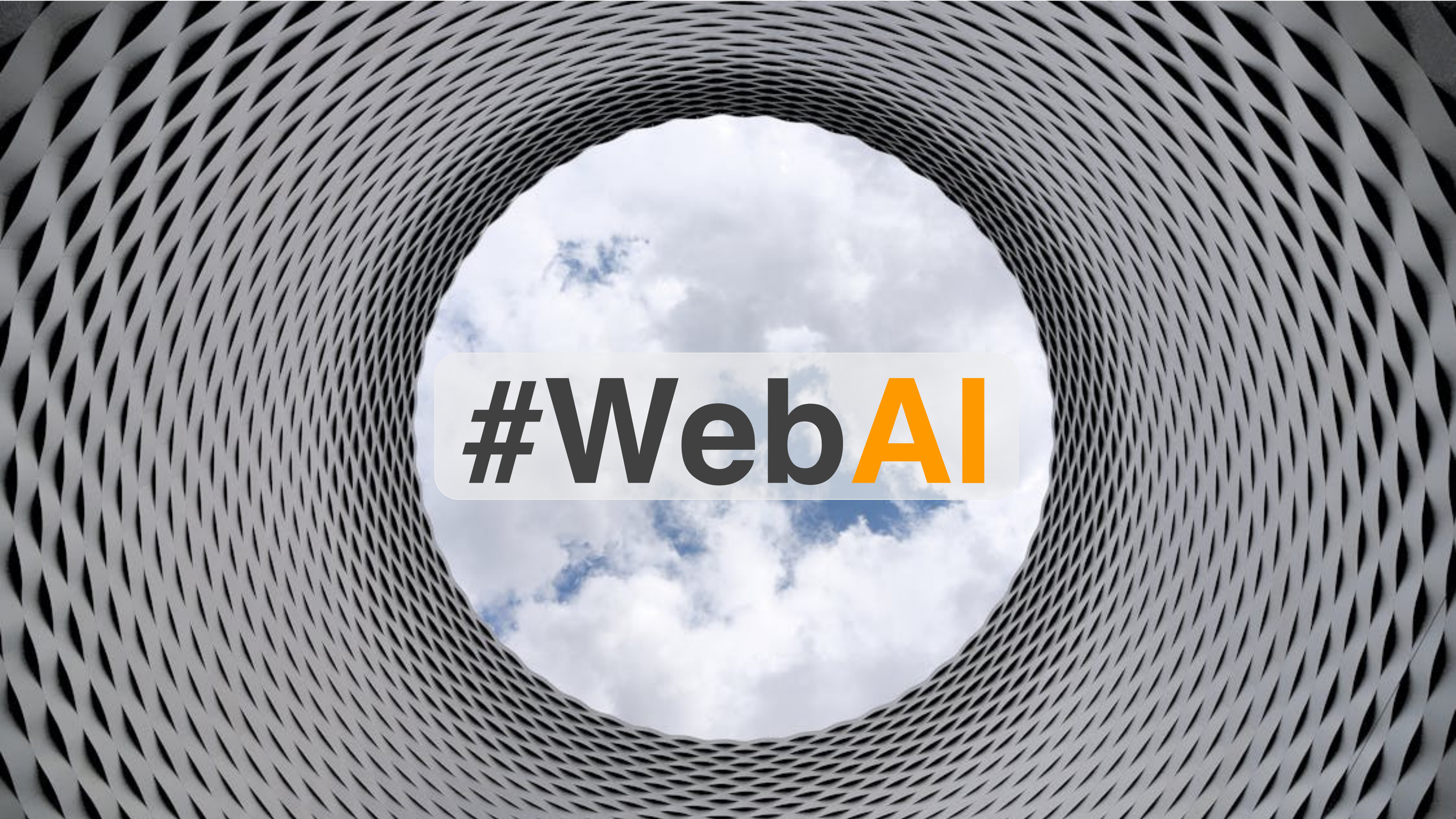
San Francisco | Where to? | Fri, 1 Nov | Sat, 9 Nov

Explore

Find cheap flights from San Francisco to anywhere

San Francisco | Oakland | San Jose | Sacramento




#WebAI

Thank you

Jason Mayes
Web AI Lead, Google

linkedin.com/in/WebAI
@jason_mayes

Newsletter
https://goo.gle/WebAINews

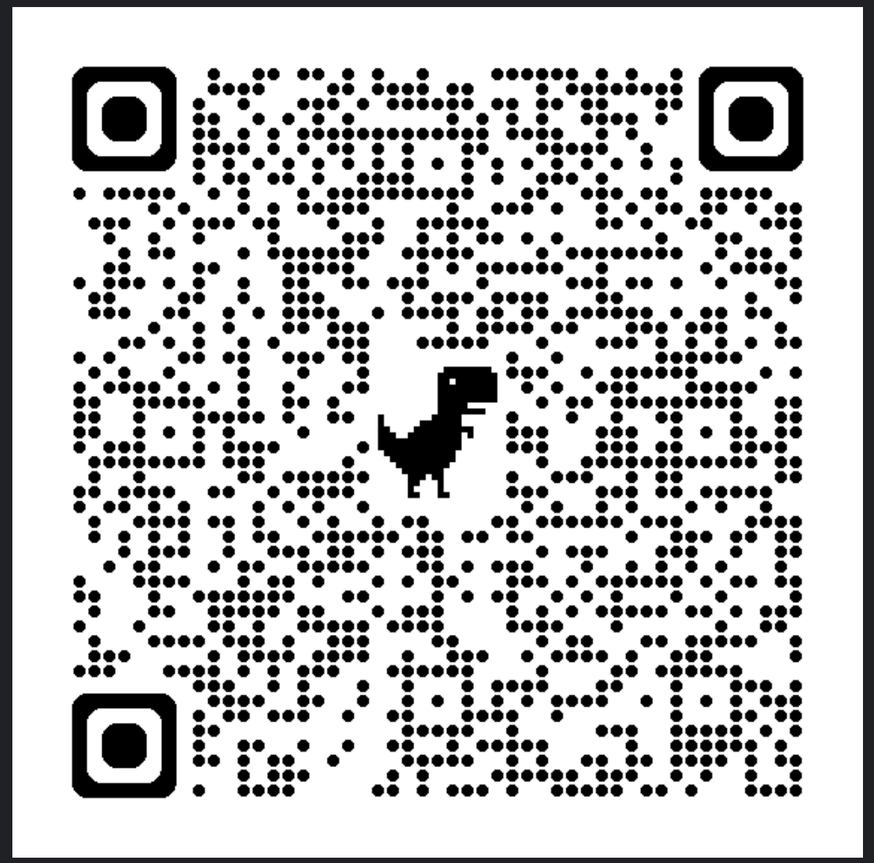
Get Inspired: https://goo.gle/WebAIVideos

Learn:
https://goo.gle/Learn-WebAI

Made something with Web AI or got thoughts for the future? Share using:

#WebAI

Feedback



Jason Mayes
Web AI Lead, Google

linkedin.com/in/WebAI
@jason_mayes