

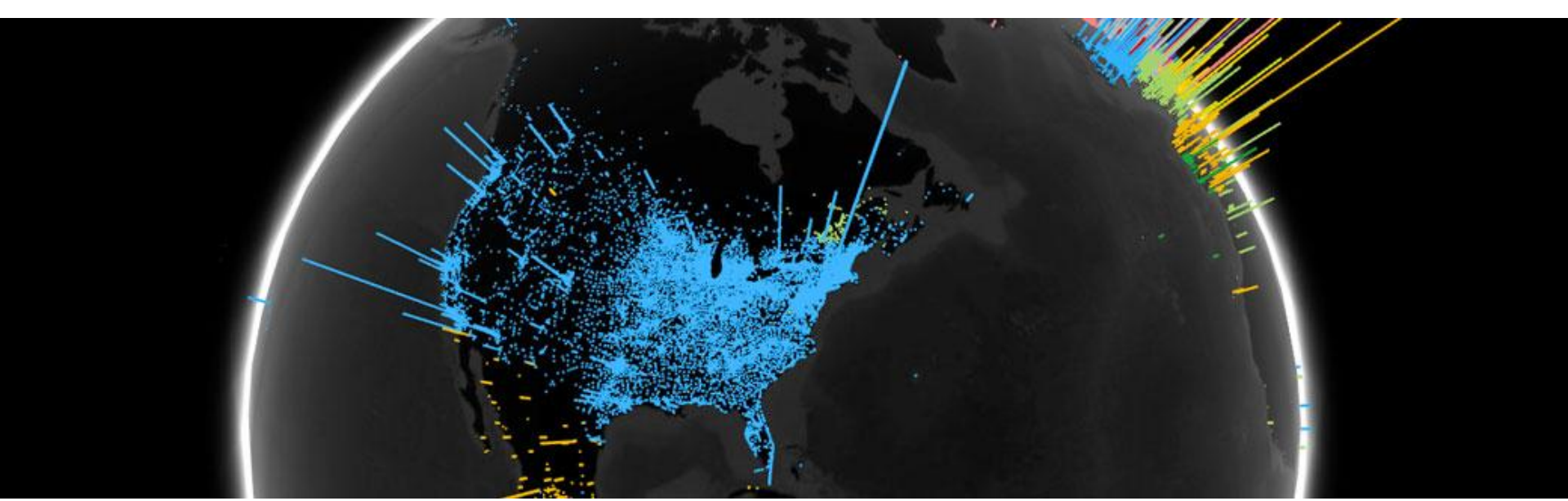


Google Open Source

Salim Abid **@abid_salim**

Google Developer Ecosystem

Regional Lead Middle-East and North Africa



Google's mission is to organize the world's information
and make it universally accessible and useful.

تتمثل مهمة Google في تنظيم معلومات العالم
وجعلها في متناول الجميع ومفيدة

Our Roots

بدأت جوجل في مرآب منذ ما يقرب من
عقدين

روح الابتكار هو جزء أساسي لدينا

Google began in a garage
nearly two decades ago.

The spirit for **innovation** is a
core part of our DNA.



Project Loon delivers internet to 100,000 people in Puerto Rico



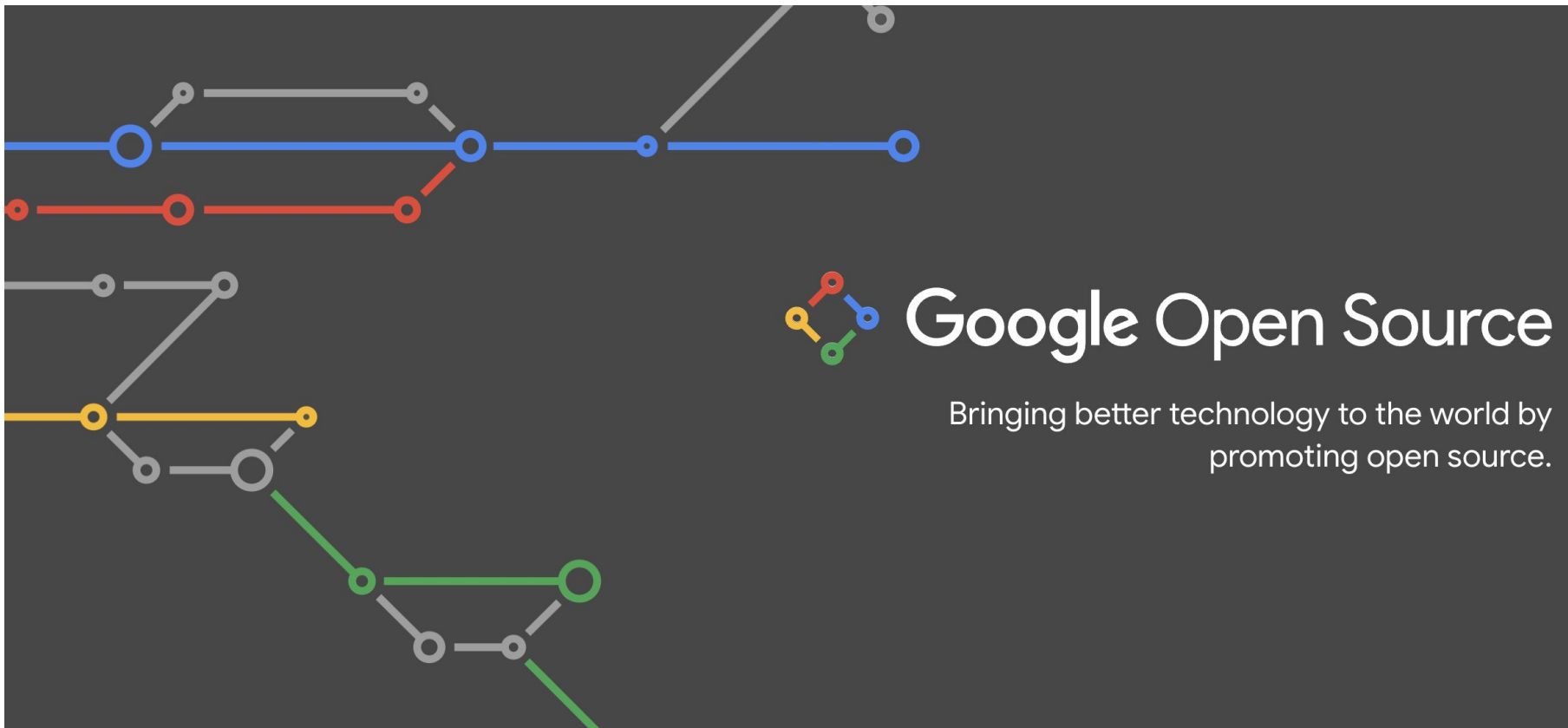
Google



Google Search










I'm Feeling Lucky










opensource.google.com














Google Open Source










Abseil  Abseil is an open-source collection of library code. VIEW PROJECT	AdaNet  Fast and flexible AutoML with learning guarantees VIEW PROJECT	Android  An operating system for a wide range of devices VIEW PROJECT
Angular  A web application framework for mobile, desktop, and web VIEW PROJECT	Apache Beam  A unified model to define and execute data processing pipelines VIEW PROJECT	badssl.com  Memorable site for testing clients against bad SSL configs VIEW PROJECT
Bazel  Google's build system for fast and correct builds VIEW PROJECT	Blockly  Open source library for adding drag and drop block coding to apps VIEW PROJECT	BoringSSL  A fork of OpenSSL used to implement cryptography and TLS across most of Google's products VIEW PROJECT

Bullet Physics SDK  Real-time collision detection and multi-physics simulation for VR, games, visual effects, robotics, machine learning etc VIEW PROJECT	CameraView  CameraView helps Android developers easily integrate Camera features VIEW PROJECT	Cartographer  Cartographer is a system that provides real-time simultaneous localization and mapping (SLAM) in 2D and 3D across multiple platforms and sensor configurations VIEW PROJECT
Cauliflower Vest  A recovery key escrow solution VIEW PROJECT	Chromium  A safer, faster, and more stable web browser VIEW PROJECT	Copybara  A tool for transforming and moving code between repositories VIEW PROJECT
Dart  Dart is a language designed to be productive, stable, and free of surprises VIEW PROJECT	DeepMind Lab  A customizable 3D platform for agent-based AI research VIEW PROJECT	Dopamine  A research framework for fast prototyping of reinforcement learning algorithms VIEW PROJECT



Google Open Source

Draco  A library for compressing and decompressing 3D graphics VIEW PROJECT	fastlane  The easiest way to automate building and releasing your iOS and Android apps VIEW PROJECT	Firebase SDK  Firebase is an app development platform with tools to develop high-quality apps, grow your user base, and earn more money VIEW PROJECT
FlatBuffers  A serialization library for games and other memory constrained apps VIEW PROJECT	Flutter  Build high-fidelity apps for iOS and Android from a single codebase VIEW PROJECT	FontDiff  A tool for finding visual differences between font versions VIEW PROJECT
FontView  A demo app that displays fonts using a free/libre/open-source text rendering stack VIEW PROJECT	Forseti Security  Open source tools for GCP security VIEW PROJECT	GenomeWarp  GenomeWarp translates genetic variants from one genome assembly version to another VIEW PROJECT

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Gerrit  A web-based code review system for projects using Git VIEW PROJECT	Go  Go is an open source programming language that makes it easy to build simple, reliable, and efficient software VIEW PROJECT	Google Cloud Datalab  An easy to use interactive tool for data exploration, analysis, visualization and machine learning VIEW PROJECT
Grafeas  Open artifact metadata API to audit and govern your software supply chain VIEW PROJECT	gRPC  A high-performance universal RPC framework VIEW PROJECT	Intra  Intra is an Android app that gives you safer, more open Internet access VIEW PROJECT



Google Open Source

Kaggle Google News Lab Datasets



Key datasets from Google Trends, curated by the News Lab at Google team and hosted by Kaggle

[VIEW PROJECT](#)

Kritis



Open source solution for securing your software supply chain for Kubernetes applications, by enforcing deploy-time security policies

[VIEW PROJECT](#)

Kubeflow



The Machine Learning Toolkit for Kubernetes

[VIEW PROJECT](#)

Kubernetes



Automated container deployment, scaling, and management

[VIEW PROJECT](#)

Kythe



Kythe is a pluggable, (mostly) language-agnostic ecosystem for building tools that work with code

[VIEW PROJECT](#)

Magenta



Magenta: Music and Art Generation with Machine Intelligence

[VIEW PROJECT](#)

MOE: Make Open Easy



Synchronizes, translates, and scrubs source code repositories

[VIEW PROJECT](#)

mtail



extract whitebox monitoring data from application logs for collection in a timeseries database

[VIEW PROJECT](#)

Neuroglancer



WebGL-based viewer for volumetric data

[VIEW PROJECT](#)

Nomulus



Top-level domain name registry software on Google Cloud Platform

[VIEW PROJECT](#)

Open Images Dataset



A dataset of ~9 million images that have been annotated with image-level labels and object bounding boxes

[VIEW PROJECT](#)

Open Science Journal



Science Journal Android code

[VIEW PROJECT](#)

OpenCensus



A stats collection and distributed tracing framework

[VIEW PROJECT](#)

OpenThread



An open source implementation of the Thread networking protocol

[VIEW PROJECT](#)

OpenWeave



An open source implementation of the Weave network application layer, the secure, reliable communications backbone for Nest products

[VIEW PROJECT](#)

Outline



Outline lets news organizations easily provide their network safer access to the open internet

[VIEW PROJECT](#)

Perkeep



Perkeep is your personal storage system for life

[VIEW PROJECT](#)

Pixel Visual Core Camera



















Pixel Visual Core Camera will help Android developers get started with Pixel Visual Core

[VIEW PROJECT](#)



Google Open Source

 <h2>Polymer</h2> <p>A lightweight library built on top of the Web Components standard</p> VIEW PROJECT	 <h2>Protobuf</h2> <p>Google's data interchange format</p> VIEW PROJECT	 <h2>Quick, Draw! Dataset</h2> <p>A unique dataset of doodles!</p> VIEW PROJECT
 <h2>Skia</h2> <p>Compact graphics library covering software and hardware rasterization</p> VIEW PROJECT	 <h2>Spinnaker</h2> <p>Multi-cloud continuous delivery platform</p> VIEW PROJECT	 <h2>Stackdriver</h2> <p>Monitoring, logging, and diagnostics for cloud applications</p> VIEW PROJECT
 <h2>SwiftShader</h2> <p>SwiftShader provides high-performance graphics rendering on the CPU</p> VIEW PROJECT	 <h2>SyntaxNet</h2> <p>A TensorFlow based NLU toolkit</p> VIEW PROJECT	 <h2>TensorFlow</h2> <p>TensorFlow is an end-to-end open source platform for machine learning</p> VIEW PROJECT

 <h2>TensorFlow Playground</h2> <p>An interactive in-browser visualization of neural networks</p> VIEW PROJECT	 <h2>Upspin</h2> <p>An experimental framework for naming and sharing files and other data securely, uniformly, and globally</p> VIEW PROJECT	 <h2>V8</h2> <p>A high-performance JavaScript engine</p> VIEW PROJECT
 <h2>Vitess</h2> <p>A scalable database clustering system for MySQL</p> VIEW PROJECT	 <h2>WebM</h2> <p>A high-quality video format for the web</p> VIEW PROJECT	 <h2>WebRTC</h2> <p>Library for high quality real-time communications in browsers and mobile apps</p> VIEW PROJECT
 <h2>ZXing</h2> <p>A barcode image processing library</p> VIEW PROJECT		

دعونا نتحقق

Let's check couple
examples





Build with Android Things

Share, build, and learn about new projects
powered by Android Things

<https://androidthings.withgoogle.com>





Google

التكامل مع تقنيات
الأخرى



Flutter



Democratizing AI دمقرطة الذكاء الاصطناعي

Google AI

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[Blog](#)

ai.google

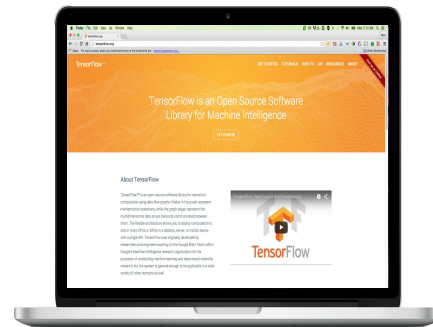
Bringing the benefits of AI to everyone

What is TensorFlow?

Google's **open source** library for
machine intelligence

tensorflow.org launched in Nov 2015

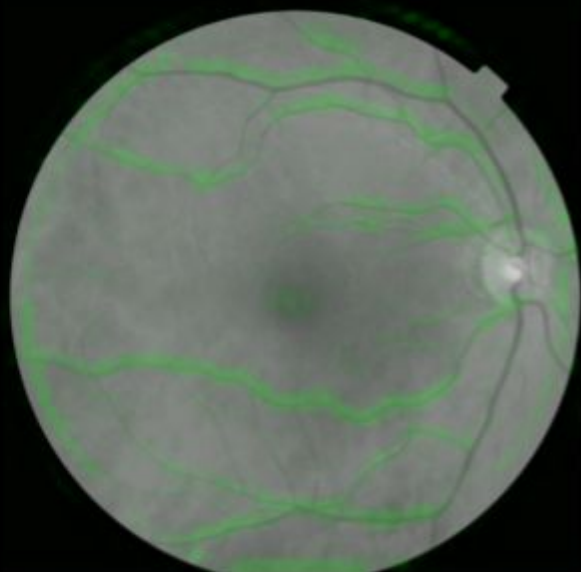
Used by many production ML projects



Deep Learning: Scientific Progress

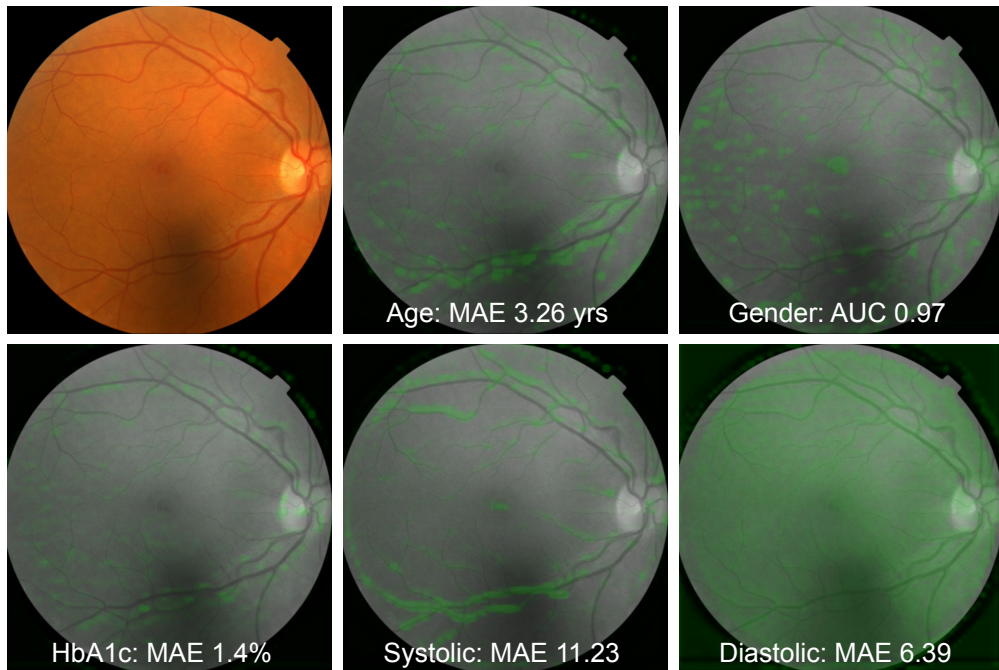


Image of retina



Blood pressure predictions
focus on blood vessels

Deep Learning: Scientific Progress



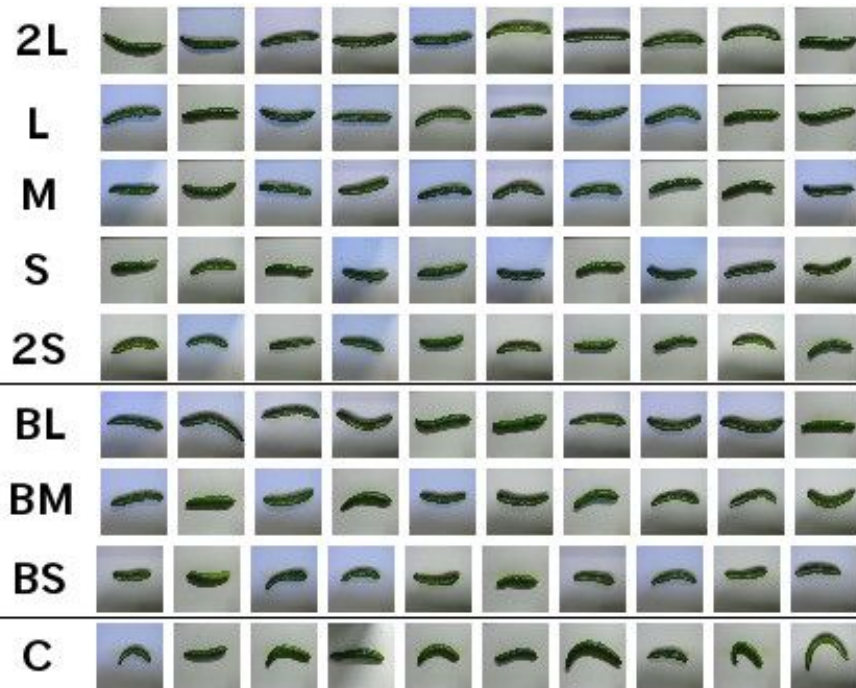
Predicting things that doctors can't predict from imaging!

5-yr Cardiovascular risk: AUC 70%

Predict risks in a nice non invasive way!

[R. Poplin, A. Varadarajan et al. Predicting Cardiovascular Risk Factors from Retinal Fundus Photographs using Deep Learning. Nature Biomedical Engineering, 2018.](#)

TensorFlow Powered Cucumber Sorter



Open Cloud

4,000+

Projects based on **Kubernetes**



442

Years of
effort*

15,000

Contributors

20k+

GitHub stars

*Source: COCOMO Model

Google Cloud Client Libraries for .NET

googlecloudplatform.github.io/google-cloud-dotnet



.NET idiomatic client libraries for Google Cloud Platform services

The Google Cloud Client Libraries for .NET are idiomatic client libraries for accessing Google Cloud Platform services. They target both the full .NET Framework and .NET Core, and comprise a mixture of generated code and hand-written code to give the best possible developer experience.

Source Code

Repo

[google-cloud-dotnet](https://github.com/googlecloudplatform/google-cloud-dotnet)

License

Apache 2.0

404 Stars

188 Forks

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[libraries](#)

[dotnet](#)

G Suite

Connect

Reach your colleagues wherever they are.



Access

Store files and find what you need instantly.



Create

Everything you need to bring your project to life.



Control

Manage users, devices, and data securely and easily.



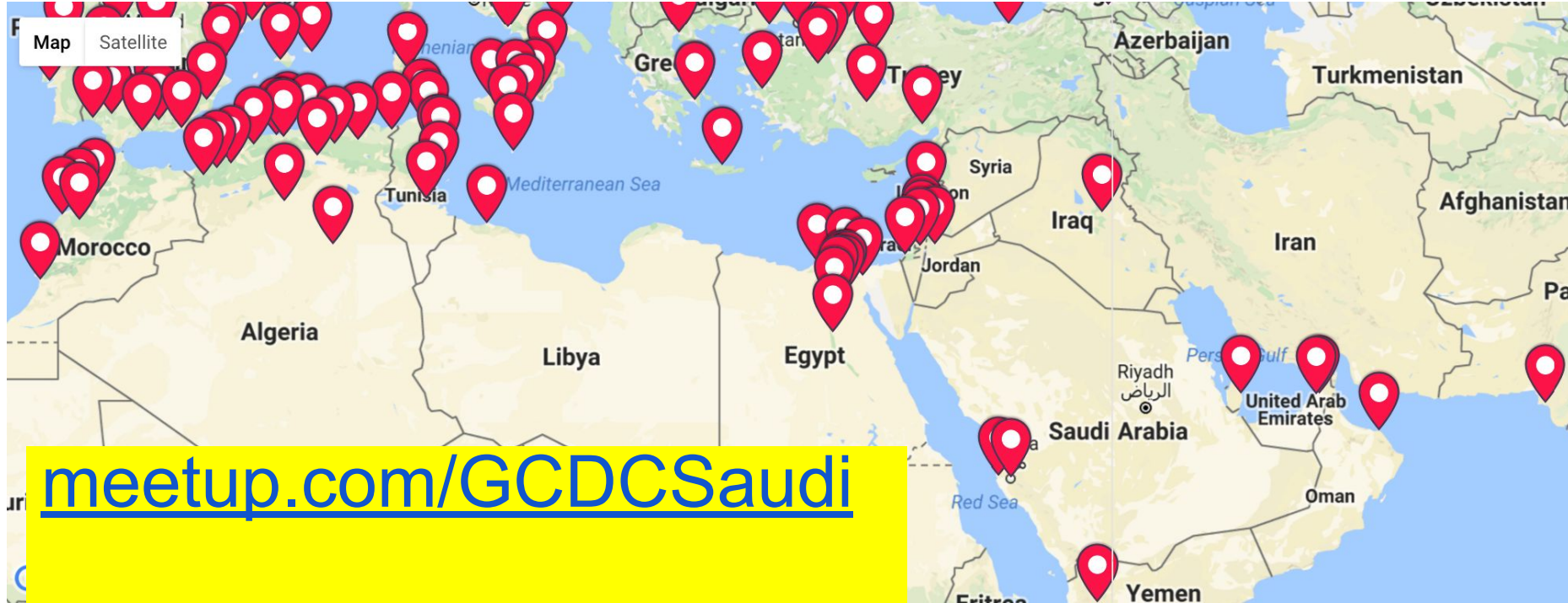


Community Empowerment

Salim Abid

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Regional Lead Middle-East and North Africa







Google's Women Techmakers program provides **visibility, community** and **resources** for women in technology

<https://www.womentechmakers.com>