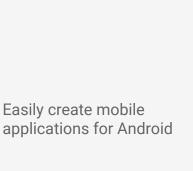
The Future is GCP

Google Cloud Platform Overview



Google Cloud

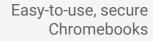








Fast, Secure, Browser



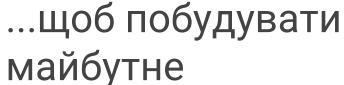


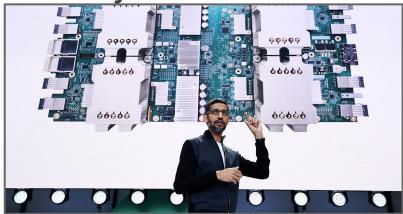


Build Geo-aware apps using Maps API

Погляньте на минуле...























1 Billion daily unique users across 8 services



The Open Cloud





More than 100 peering locations

Global Load Balancing with Single IP

Global Network

Seamless autoscale to over 1M QPS with no pre-warming

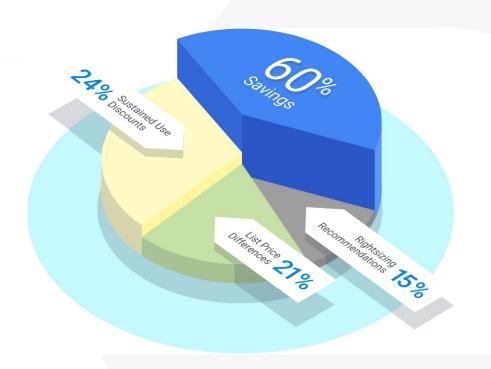
Edge locations in virtually every country

Global Content Delivery Network



Pricing Innovation

- Per-Second billing
- Sustained-use discounts
- Custom machine types
- Rightsizing
- Committed-use discounts
- Preemptible machines



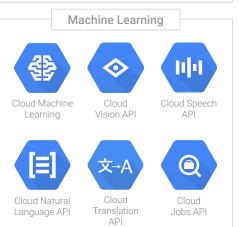
More than 60 Google Cloud Platform services













Where should I run my code?



Compute Engine



Kubernetes Engine



App Engine



Cloud Functions

laaS

Raw compute Granular control **Container clusters**

Manages your container cluster and actively schedules your containers

PaaS

Build your scalable app faster

Functions

Event-driven and serverless programming

Configurability DevOps

Agility NoOps



Compute Engine

VMs or Infrastructure as a Service



Fast, Easy Provisioning

Quickly deploy large clusters of virtual machines with a RESTful API.



(Really) Pay for what you use

Get the best price automatically with sustained use discounts and preemptible VMs



High-performance Virtual Machines

From sub 1 to 96 cores and from 0.6 to 1.4 TB RAM - High Performance VMs



One size does not fit all

Choose the amount of cores and RAM you really need with custom VM types

Compliance & Security

All data written to disk in Compute Engine is encrypted on the fly and then transmitted and stored in encrypted form.

What is Kubernetes?

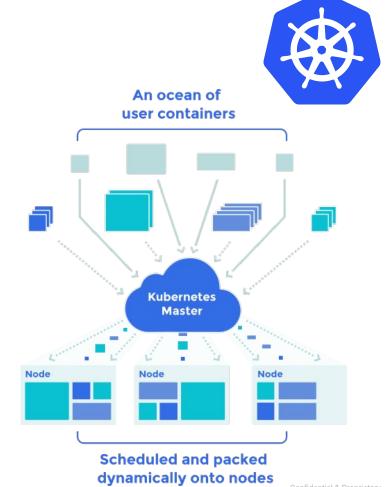
"Container Orchestration"

Container-centric infrastructure

Inspired by Google's internal systems and experience managing containers

Runs Anywhere

Open sourced in 2014



Kubernetes Community



Contributors
And users





















































Google App Engine



```
// Index router
app.get("/", function (req, res) {
  // Compute hashes to consume a lot of CPU
  var ts = hashes(NUM_HASHES);
  var update = {};
  update[ts] = 1;
  // Save this request in Firebase
  instanceRef.push(update, function(err) {
    if (err) {
      console.log(err);
    // Tell NEXT "Hello World."
    res.send(`Hello World at ${hash}\n`);
  });
```

Cloud Functions



A serverless environment to run code when a event is triggered.

Event emitted



Function triggered

No servers



Automatic scaling



Only pay for what you use



Google Cloud

Fastest Path for New App Development



Cloud Functions

Event-driven serverless environment



Container Engine

Fully managed Kubernetes container orchestration



App Engine

Web-scale PaaS lets Devs just code, now serving 100B requests/day



Integrated platform for building great mobile apps on iOS and Android

Complete Storage, Data and Analytics Platform

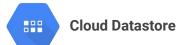
Storage and Databases

Big Data and Analytics

Machine Learning









Cloud Cache













Cloud ML









Four storage classes

iewal Frede



Coldline

Cold 99% SLA Milliseconds

Archive Source file backup Disaster recovery



Nearline

Infrequent Access 99% SLA Milliseconds

Backup Long-tail content Rarely accessed docs



Regional

Regional 99.9% SLA Milliseconds

Transcoding
Data Analytics
General compute



Multi-Regional

Geo-redundant 99.95% SLA Milliseconds

Video Multimedia Business continuity

Google Cloud

Products & services **Storage and Databases**



Cloud Storage

Powerful, simple and cost effective object storage service with global edge-caching



Cloud Bigtable

Cloud Bigtable is a fast, fully managed, massively scalable NoSQL database service



Cloud Datastore

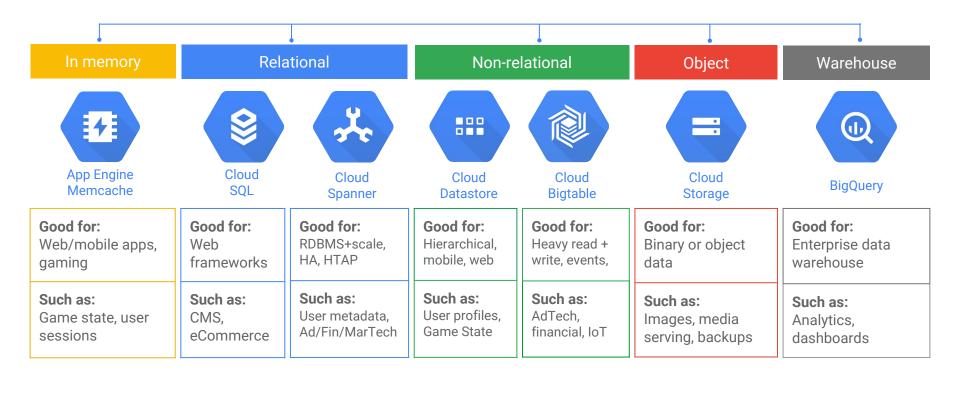
A managed, NoSQL, schemaless database for storing non-relational data



Cloud SQL

Store and manage data using a fully-managed, relational MySQL database

Storage & Database Portfolio



How Google Cloud Storage is Being Used

Content Storage and Delivery

Data Analytics and **General Compute**

Backup, Archival and **Storage Partners**



Video



motorola Manufacturing







Music



Genomics







Websites



E-commerce



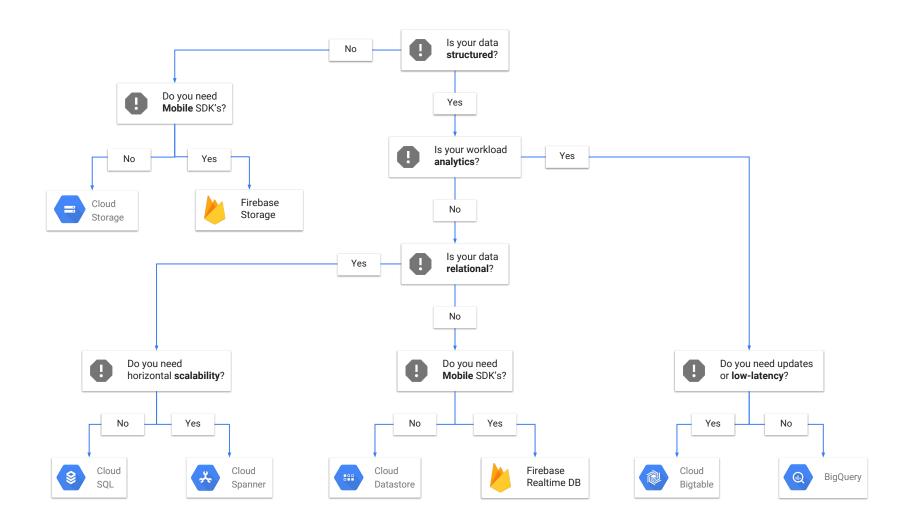














Big Data and Analytics Services for Smarter Computing

Transform data into actions

	Data Ingestion	Data Preparation & Processing	Databases	Storage	Exploration & Collaboration	Analytics	Advanced Analytics & Intelligence	
								0-0
Mobile apps		Data preparation	Relational				Development environment for Machine Learning	Business analysts
	Logs	l Page 133						
0			Key-value		Data exploration	Federated query		
								Data scientists
Web apps		Stream processing	Document	Object				Duta Scientists
Sensors and devices	Messaging				Data visualization	Data satula a	Pre-Trained Machine Learning models	Developers
			Wide column			Data catalog		
		Batch processing	SQL					

Google Cloud

Transform data into actions





Web apps



Data Ingestion / Storage



App Engine



Cloud Pub/Sub



Cloud IOT Core



Data
Preparation &
Processing



Cloud Dataflow



Databases



Cloud SQL



Cloud Datastore



Cloud Bigtable



Exploration & Collaboration



Cloud Datalab



Google BigQuery



Cloud Dataproc



Analytics 360

Analytics



Google BigQuery



Cloud Dataproc



Google Drive



Google Analytics 360

Advanced Analytics & Intelligence



Cloud Machine Learning



Speech API



Vision API





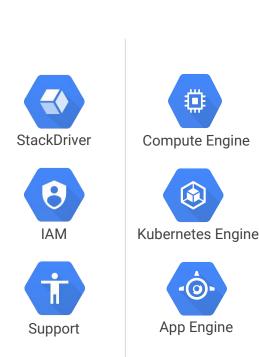
Business Analysts



Developers



Everything You Need To Build And Scale

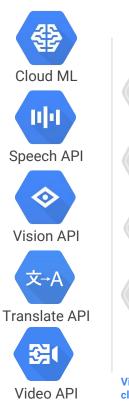




Cloud Spanner









Machine learning is



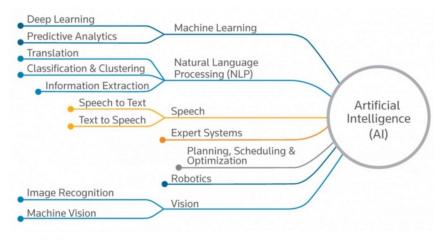
a branch of artificial intelligence



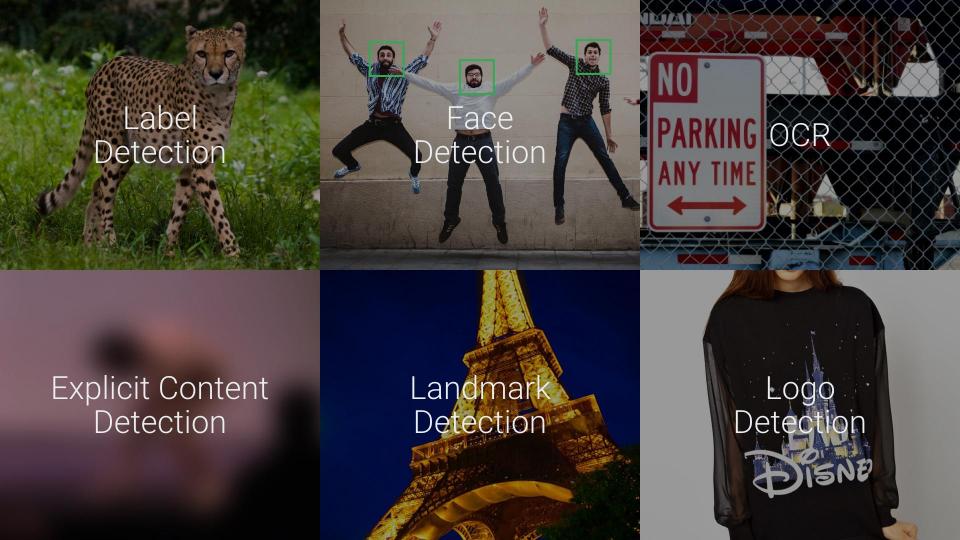
a way to solve problems without explicitly codifying the solution



a way to build systems that improve themselves over time



Source: Neota Logic



Two ways we can help you benefit from ML



Use your own data to train models





Cloud Machine Learning Engine

Machine Learning as an API



Cloud Vision API



Cloud Speech API



Jobs API



Cloud Natural Language API



Cloud Translation API

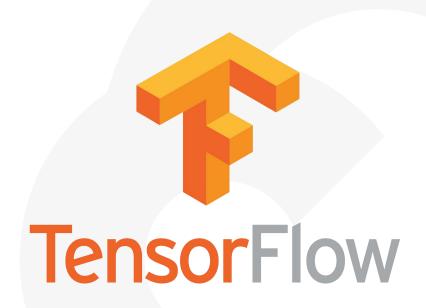


Cloud Video Intelligence

#1 Machine Learning repository on GitHub

475+ non-Google contributors

14,000+ Commits in 14 months

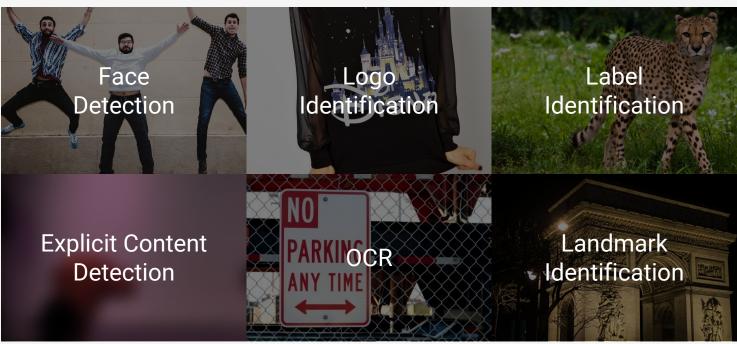


Cloud Vision

Derive insight from images with powerful API



DEMO



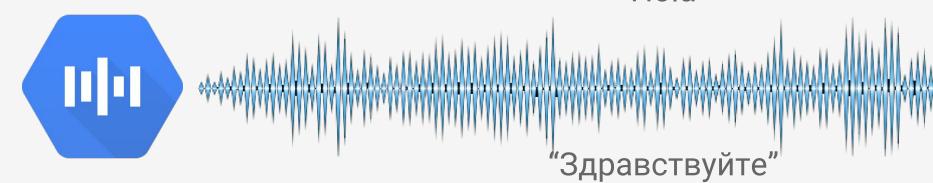
Cloud Speech

Speech to text conversion powered by Machine Learning

"Hello"

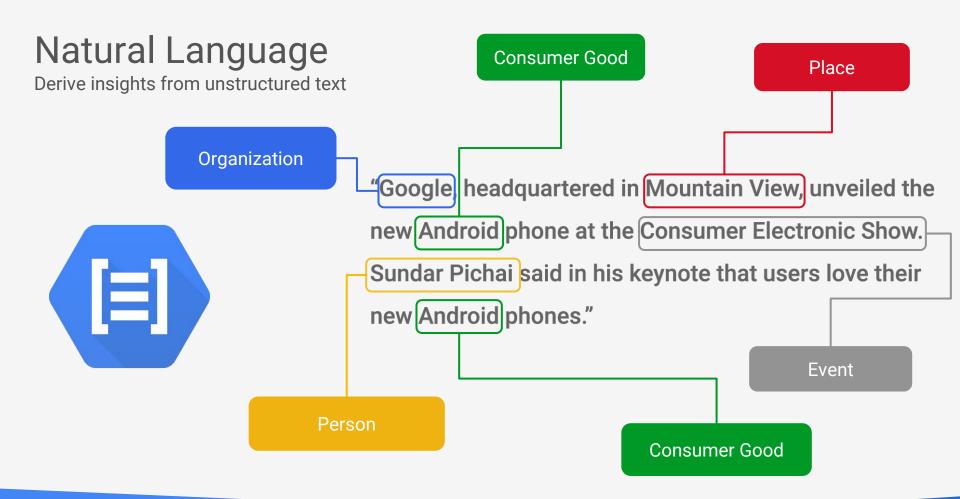
"Bonjour"

"Hola"

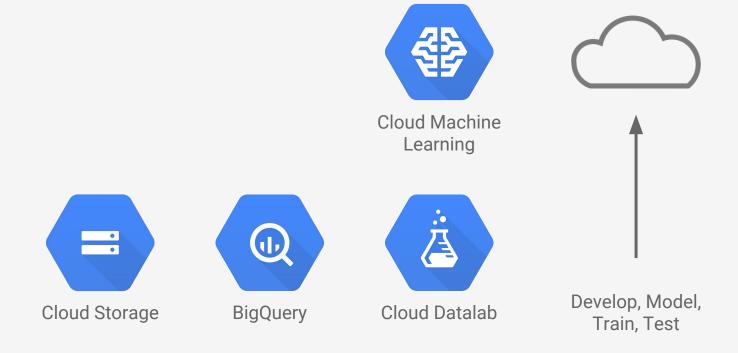


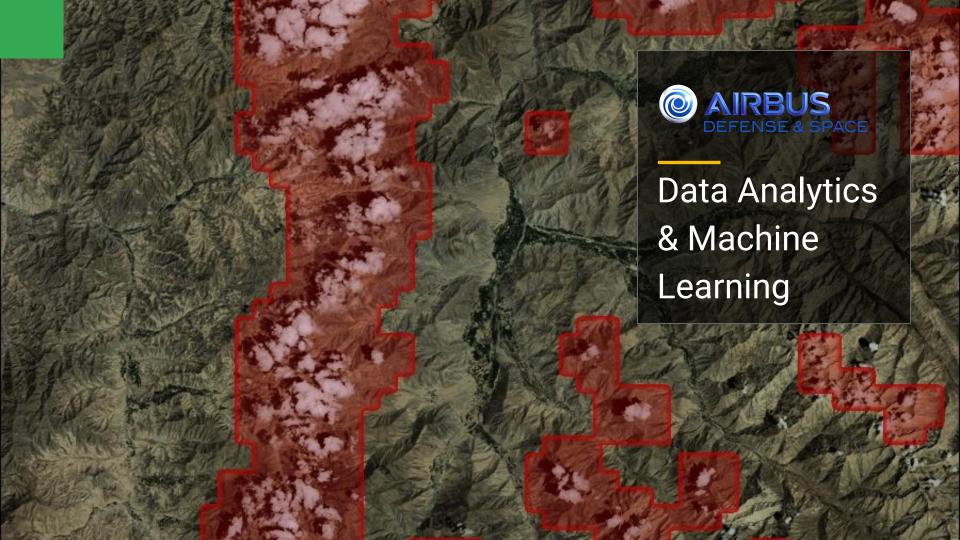
"안녕하세요"

"こんにちは"



Use Your Own Data





Everything You Need To Build And Scale



Compute

From virtual machines with proven price/performance advantages to a fully managed app development platform.

Compute Engine

App Engine

Kubernetes Engine

Container Registry

Cloud Functions



Storage and Databases

Scalable, resilient, high performance object storage and databases for your applications.

Cloud Storage

Cloud Bigtable

Cloud Datastore

Cloud SQL



Networking

State-of-the-art software-defined networking products on Google's private fiber network.

Cloud Virtual Network

Cloud Load Balancing

Cloud CDN

Cloud Interconnect

Cloud DNS



Management Tools

Monitoring, logging, and diagnostics and more, all a easy to use web management console or mobile app.

Stackdriver Overview

Monitoring

Logging

Error Reporting

Debugger

Deployment Manager & More



Big Data

Fully managed data warehousing, batch and stream processing, data exploration, Hadoop/Spark, and reliable messaging.

BigQuery

Cloud Dataflow

Cloud Dataproc

Cloud Datalab

Cloud Pub/Sub

Genomics



Machine Learning

Fast, scalable, easy to use ML services. Use our pre-trained models or train custom models on your data.

Cloud Machine Learning Platform

Vision API

Speech API

Translate API



Developer Tools

Develop and deploy your applications using our command-line interface and other developer tools.

Cloud SDK

Deployment Manager

Cloud Source Repositories

Cloud Endpoints

Cloud Tools for Android Studio

Cloud Tools for IntelliJ

Google Plugin for Eclipse

Cloud Test Lab



Identity & Security

Control access and visibility to resources running on a platform protected by Google's security model.

Cloud IAM

Cloud Resource Manager

Cloud Security Scanner

Cloud Platform Security Overview



Start using the ML APIs today!

Video: cloud.google.com/video-intelligence

Vision: cloud.google.com/vision

Speech: cloud.google.com/speech

Natural Language: cloud.google.com/natural-language

Translation: cloud.google.com/translation

Try them all in the browser!

Try Them Yourself and have 500\$ from us!

cloud.google.com/translate/



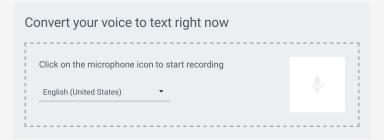
cloud.google.com/vision/



cloud.google.com/natural-language/



cloud.google.com/speech/



Thank you!



google@techsvit.eu 044 359 09 89