Google-Cloud-Platform's

why what how

Strayn 2016.10.12

WHY Google?

Free for 60 days

Fancy
ML-firsted Google

WHY Google?

And it WORKS...

for 60 days

Free Fancy

ML-firsted Google

How GCP works

What we do locally

- 1) Collect your data
- 2) Label your data

```
"sad", "Feeling kind of low...."
"excited", "OMG! Just had a fabulous day!"
"bored", "Eating eggplant. Why bother?"
```

What we do with GCP

- 1) Upload data to STORAGE
- 2) Train it with API
- 3) Predict as you want

Why google is better?

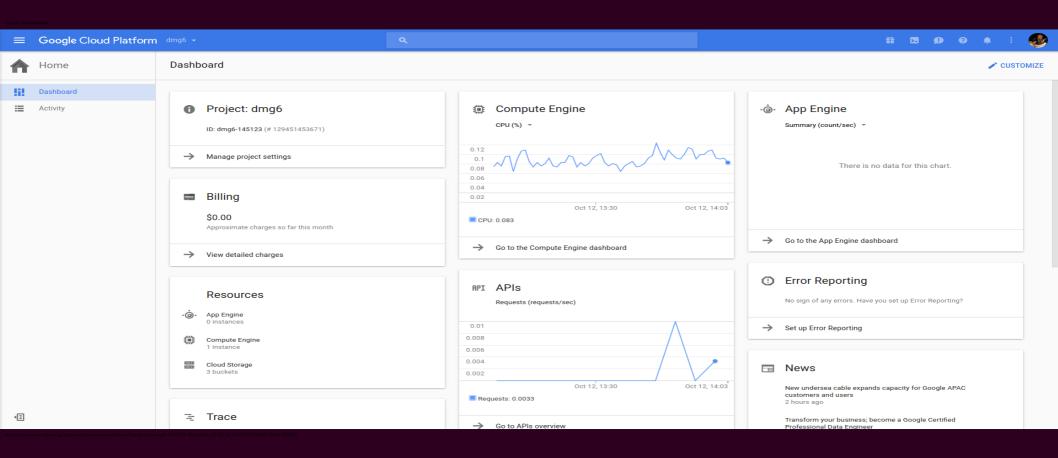
BAG OF WORDS

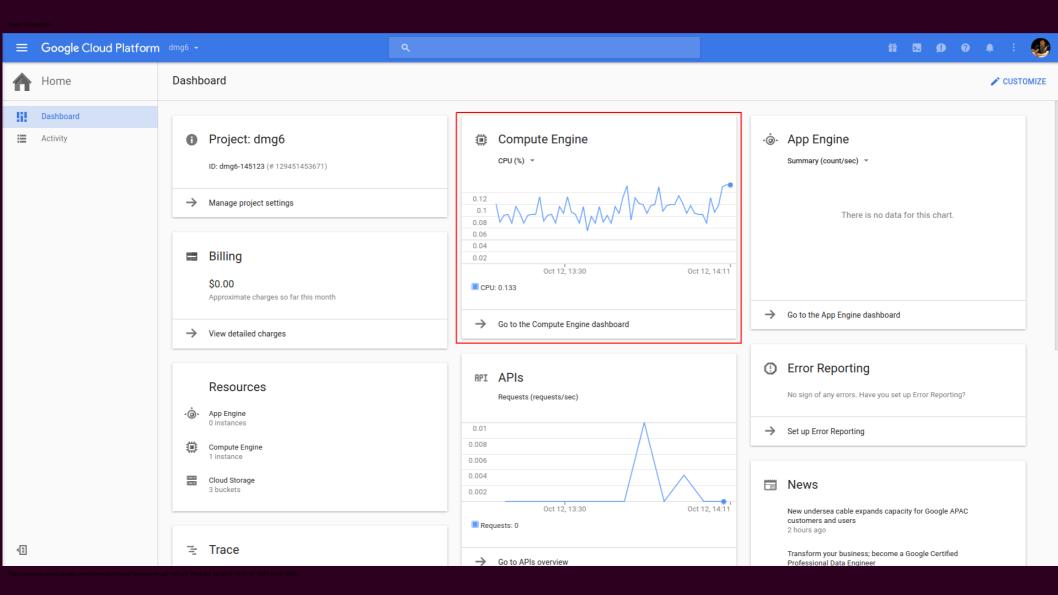
- Data Collections api/rvest/tm
- Correlation Mining
 qdap
- Fancy Displays
 wordcloud/network/pyramidplot/
 treeplot

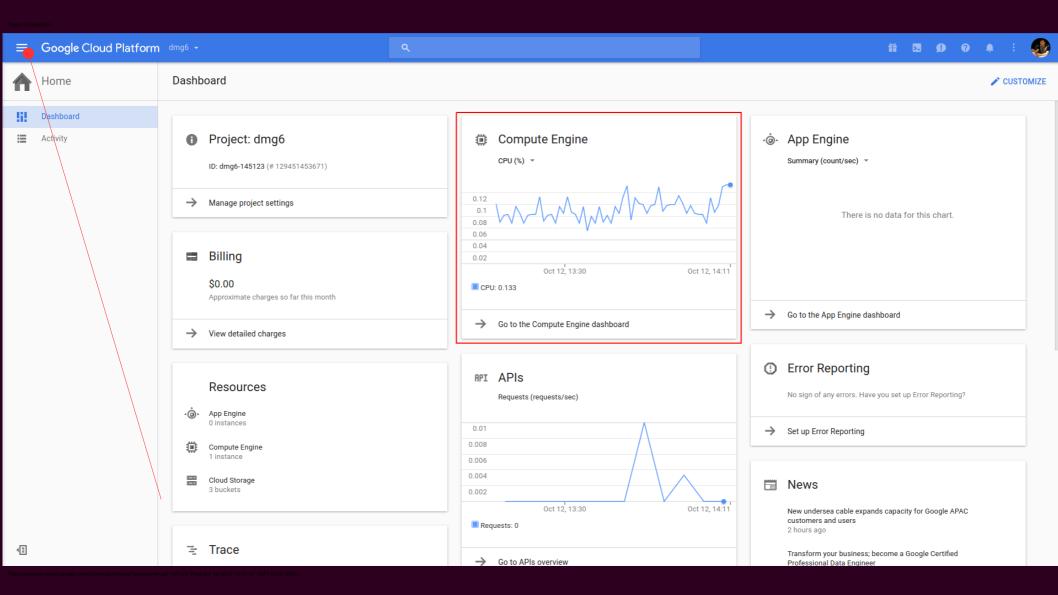
GOOGLE

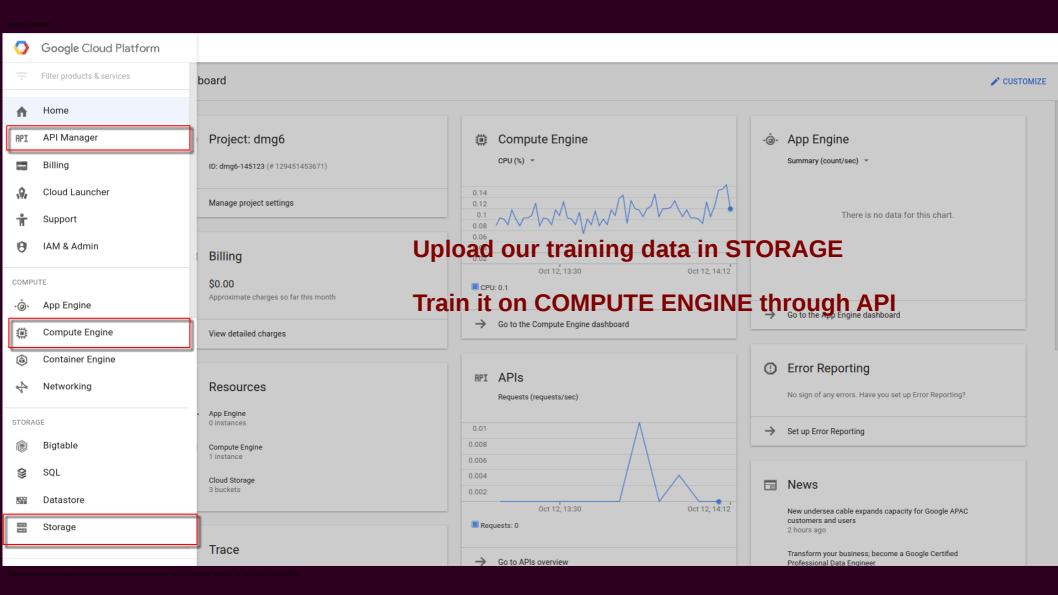
- Entities
 - **Save time for Dictionary of Nouns**
- Sentiment
 - **Save time for learner tuning**
- Syntax
 - Save time for dictionary of grammar

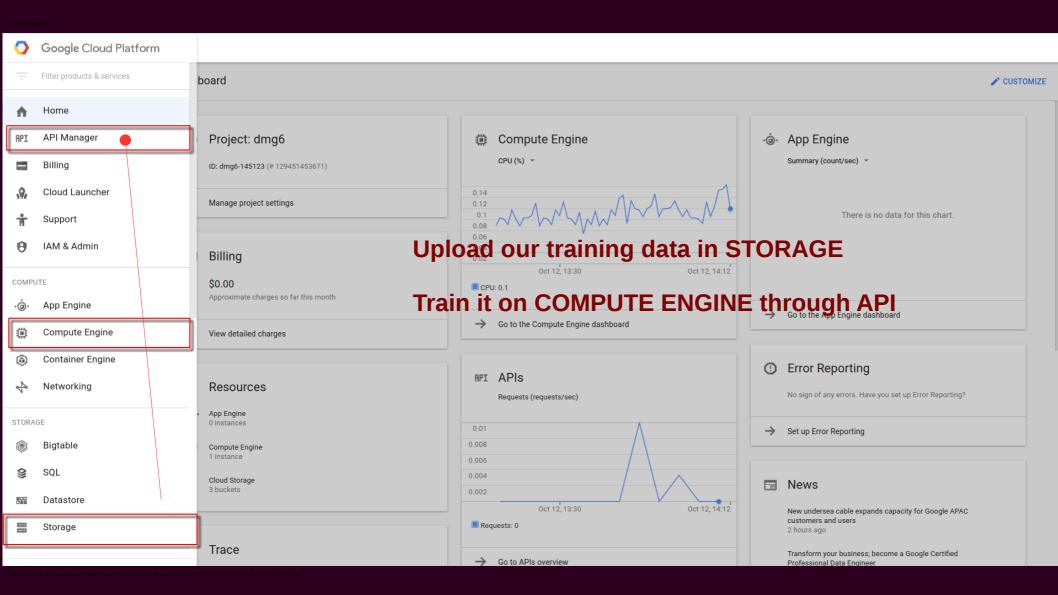
WHAT?

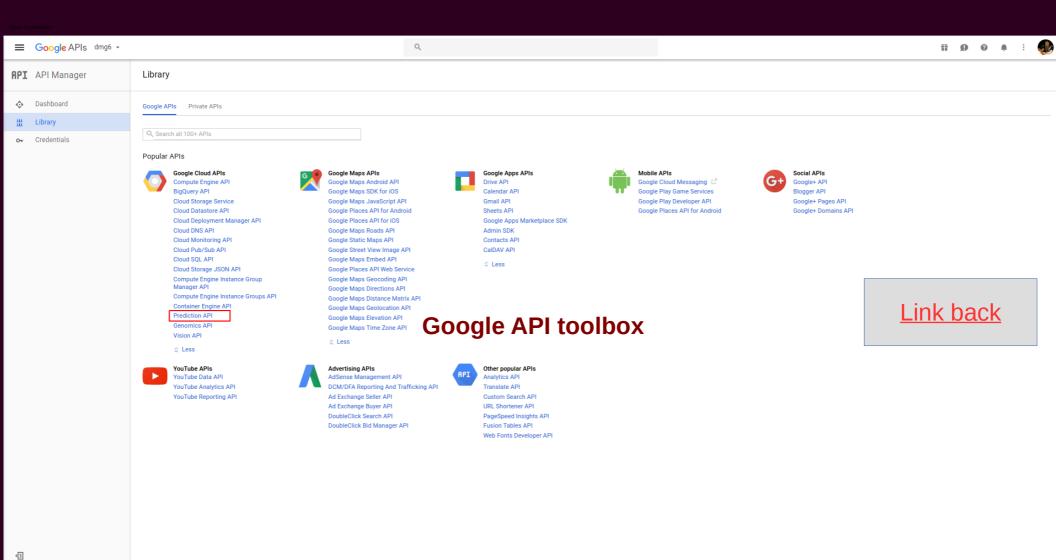


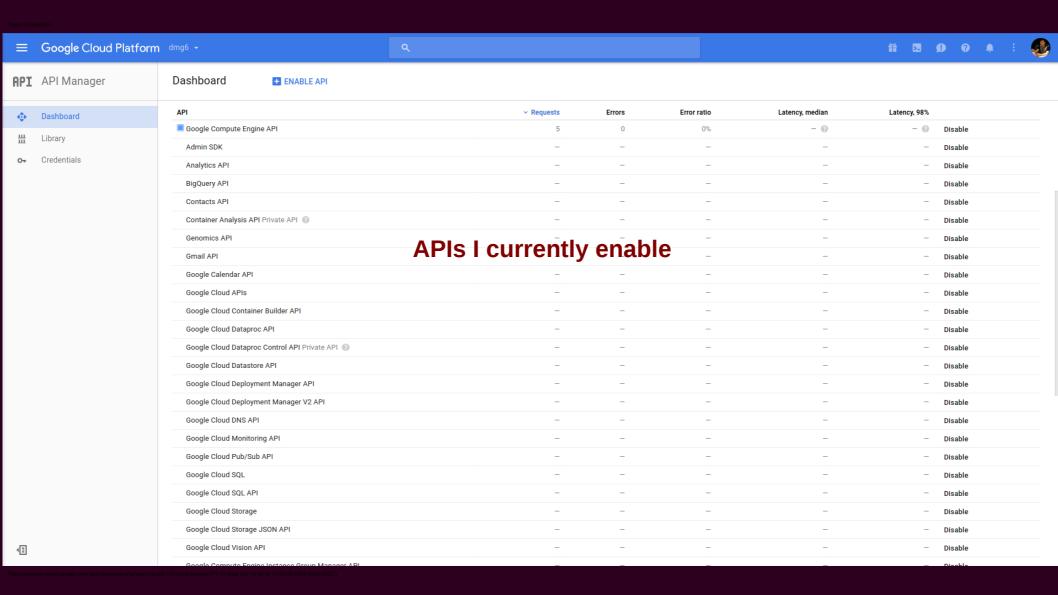














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Pricina

This page describes the pricing schedule for using the Google Prediction API, including free usage quota.

When charging in local currency, Google will convert the prices listed into applicable local currency pursuant to the conversion rates published by leading financial institutions.

Free Quota

Usage is free for the first six months, up to the following limits per Google Cloud Platform Console project. This free quota applies even when billing is enabled, until the six-month expiration time.

- Usage limits:
 - Predictions: 100 predictions/day
 - · Hosted model predictions: Hosted models have a usage limit of 100 predictions/day/user across all models.
 - Training: 5MB trained/day
 - Streaming updates: 100 streaming updates/day

Cooked data on kaggle sizes 3.4MB

- · Lifetime cap: 20,000 predictions.
- Expiration: Free quota expires six months after activating Google Prediction for your project in the Google Cloud Platform Console.

Note that some Prediction API usage scenarios depend on Google Cloud Storage, which has different pricing terms from the Prediction API.

Paid Usage

Paid usage comes with a 99.9% availability service level agreement. Read more about the SLA here.

Link back



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And it's not a bad idea to pay

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Paid Usage

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Monitor your usage on the Google Cloud Platform Console. Any usage beyond the free usage quota will fail if you have not enabled billing for the project. Once you exceed the free quota, the following prices and limits apply:

- Base fee: \$10 monthly fee per Google Cloud Platform Console project.
- Usage fees:
 - Prediction:
 - 10,000 predictions/month: \$0.00
 - 10,001+ predictions/month: \$0.50/1,000 predictions beyond the initial 10,000
 - · Training:
 - \$0.002/MB bulk trained (maximum size of each dataset: 2.5GB)
 - 0-10,000 streaming updates: \$0.00
 - 10,001+ streaming updates: \$0.05/1,000 updates beyond the initial 10,000.
- Usage limits:
 - If you intend to make more than 40,000 predictions/day, please contact us.
 - Google Prediction has a default limit of 2,000,000 predictions/day per project for your own models.
 - Hosted models have a usage limit of 100 predictions/day/user across all demonstration models. Developers
 can set higher paid usage limits for models they create. Please see each model's documentation for more
 details.



Terms of Service

HOW?

HOW? RTFM

Basically 3 ways to use it

- 1)Through Google API Manager
- 2)Through Spreadsheet
- 3)Through Python

Sample Codes

#In the request body, supply data with the following structure:

```
{
  "input": {
    "csvInstance": [
        'hello'
    ]
  }
}
```

```
import httplib2, webapp2
from oauth2client.appengine import AppAssertionCredentials
from apiclient.discovery import build
http =
AppAssertionCredentials('https://www.googleapis.com/auth/prediction').authorize(httplib2.H
ttp())
service = build('prediction', 'v1.6', http=http)
class MakePrediction(webapp2.RequestHandler):
 def get(self):
  result = service.hostedmodels().predict(project='414649711441',
hostedModelName='sample.sentiment', body={'input' {'csvInstance': ['hello']}}).execute()
  self.response.headers['Content-Type'] = 'text/plain'
  self.response.out.write('Result: ' + repr(result))
app = webapp2.WSGIApplication([
  ('/makePrediction', MakePrediction),
], debug=True)
```

App Engine+Compute Engine

Terms you might confuse

Model

- 1) Hosted/Hosted models
- 2) Query Parameters
- 3) Batch: send multi query
- 4) PMML

Security

- 1) OAUTH 2.0
- 2) KEY

Get hands dirty

