

Cloud Functions for Firebase



Paola García
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Sobre mi



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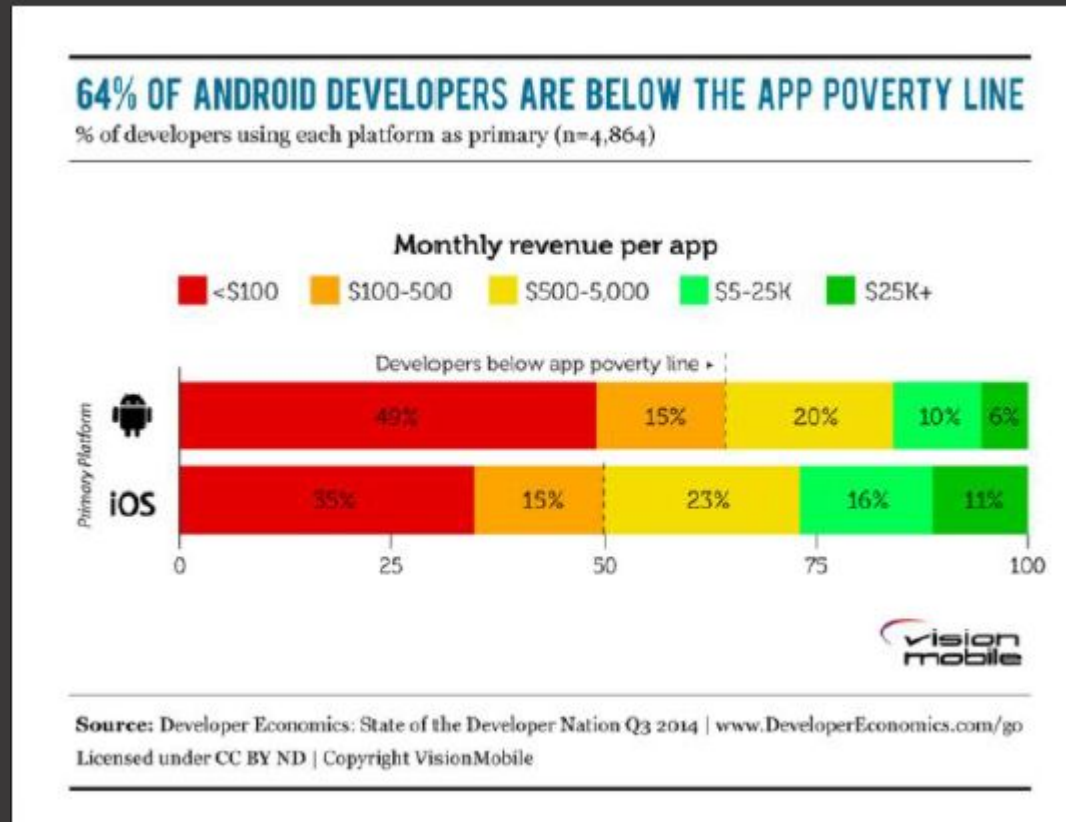
- > Ingeniera en Telemática / UC3M
- > Desarrolladora (Android, Node.js)
- > CEO y Co-fundadora de [Chefly](https://www.chefly.com)
- > Embajadora for Women en Campus Madrid
- > Embajadora de diversidad de OSW
- > Miembro y ponente en WTM

1. Por qué Firebase

2. Por qué Cloud Functions

3. Let's code it

¿Por qué Firebase?




Cloud Firestore

 Easily store and sync your app data at global scale. [Learn more](#)


Firebase helps you build better mobile apps and grow your business.

[GET STARTED](#)

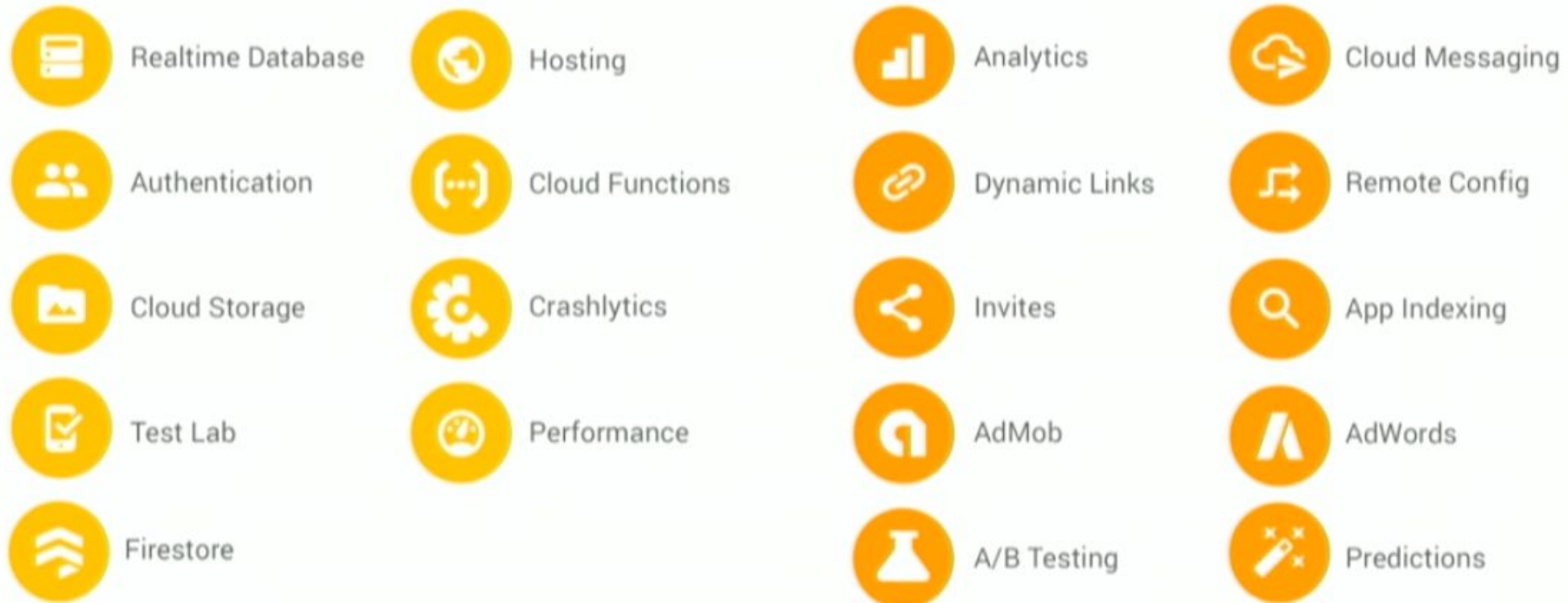
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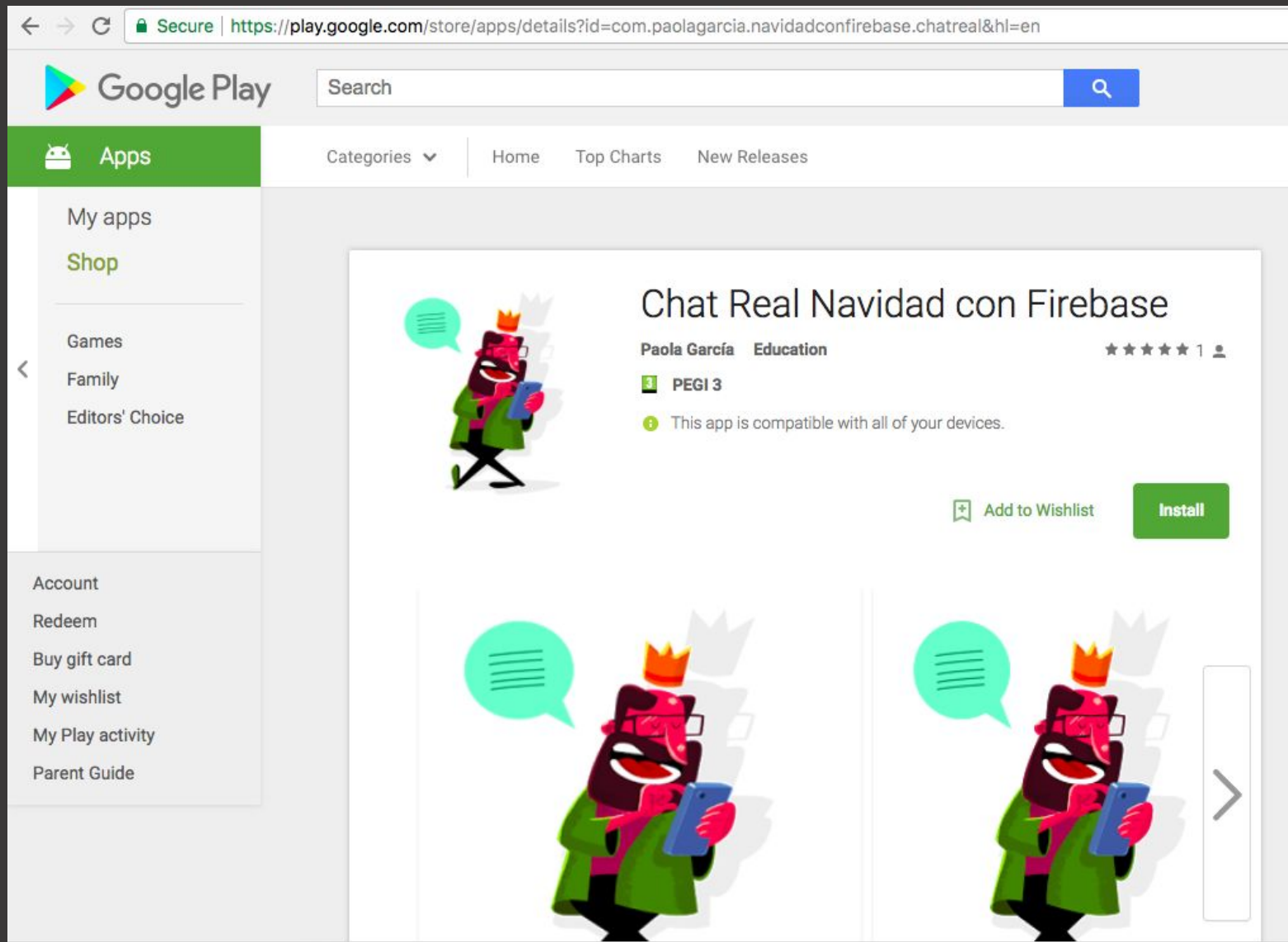

@ggarciapaola



Women Techmakers

Firebase is Google's mobile platform





Navidad con Firebase:

Chat multiplataforma en tiempo real serverless

Cloud Functions de Firebase

- Trozo de código Javascript
- Ejecutado en un server de Google
- Solo te preocupas de desplegarlo

Benefits of Cloud Functions



Scales up
and down

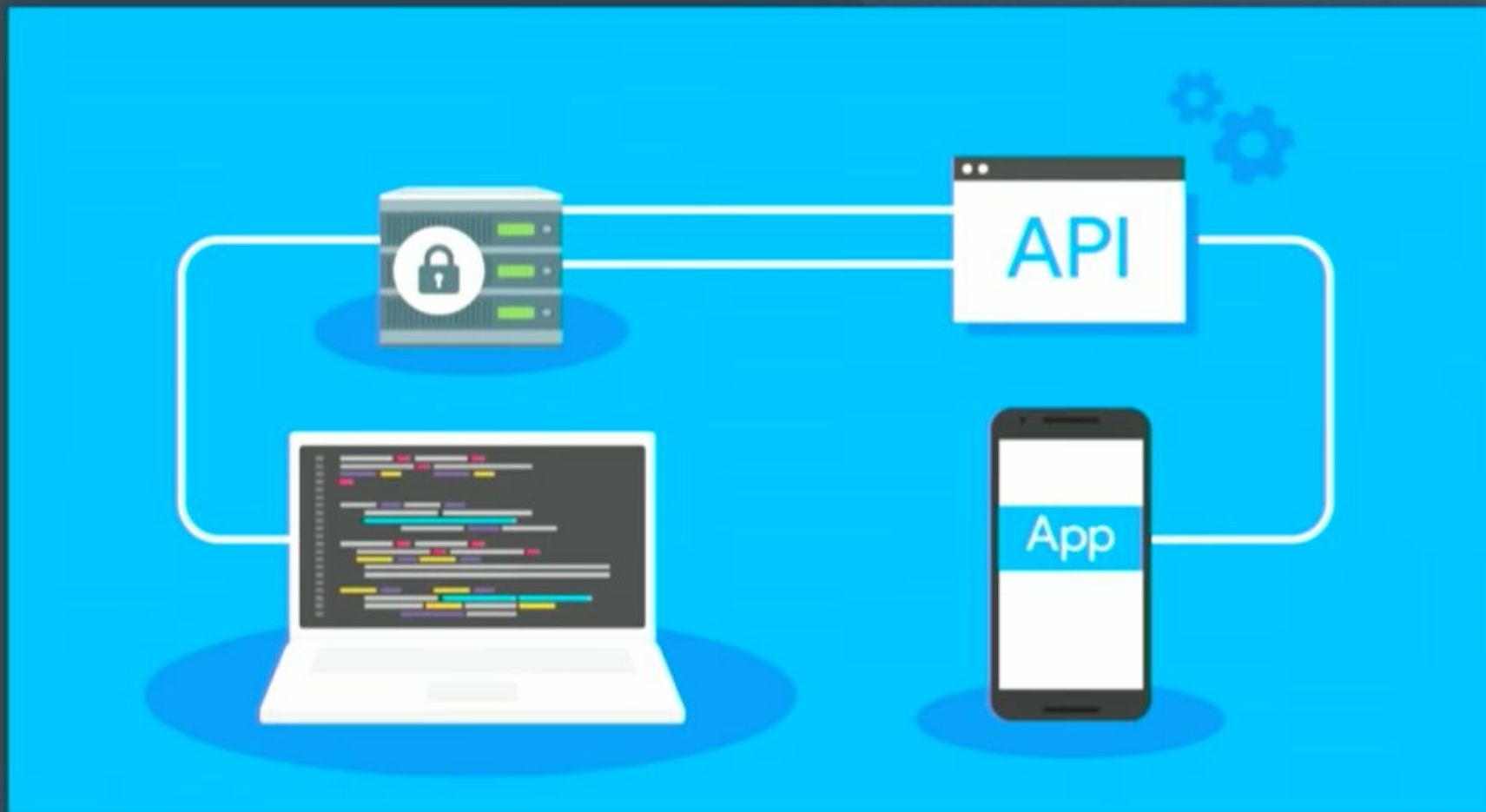


Authenticated
access to Firebase
& Google Services

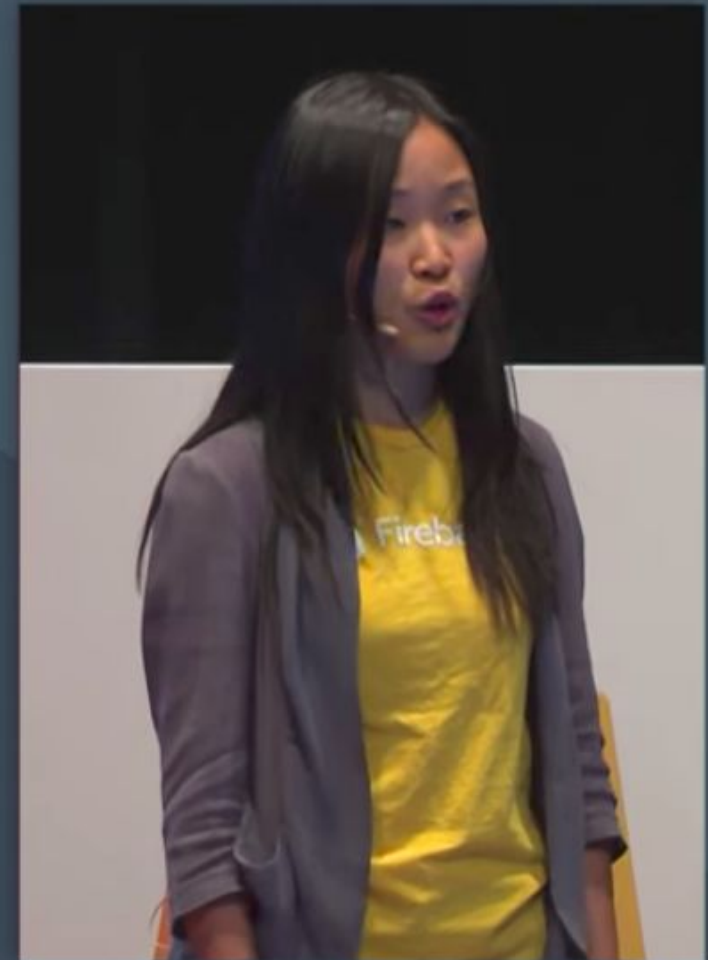
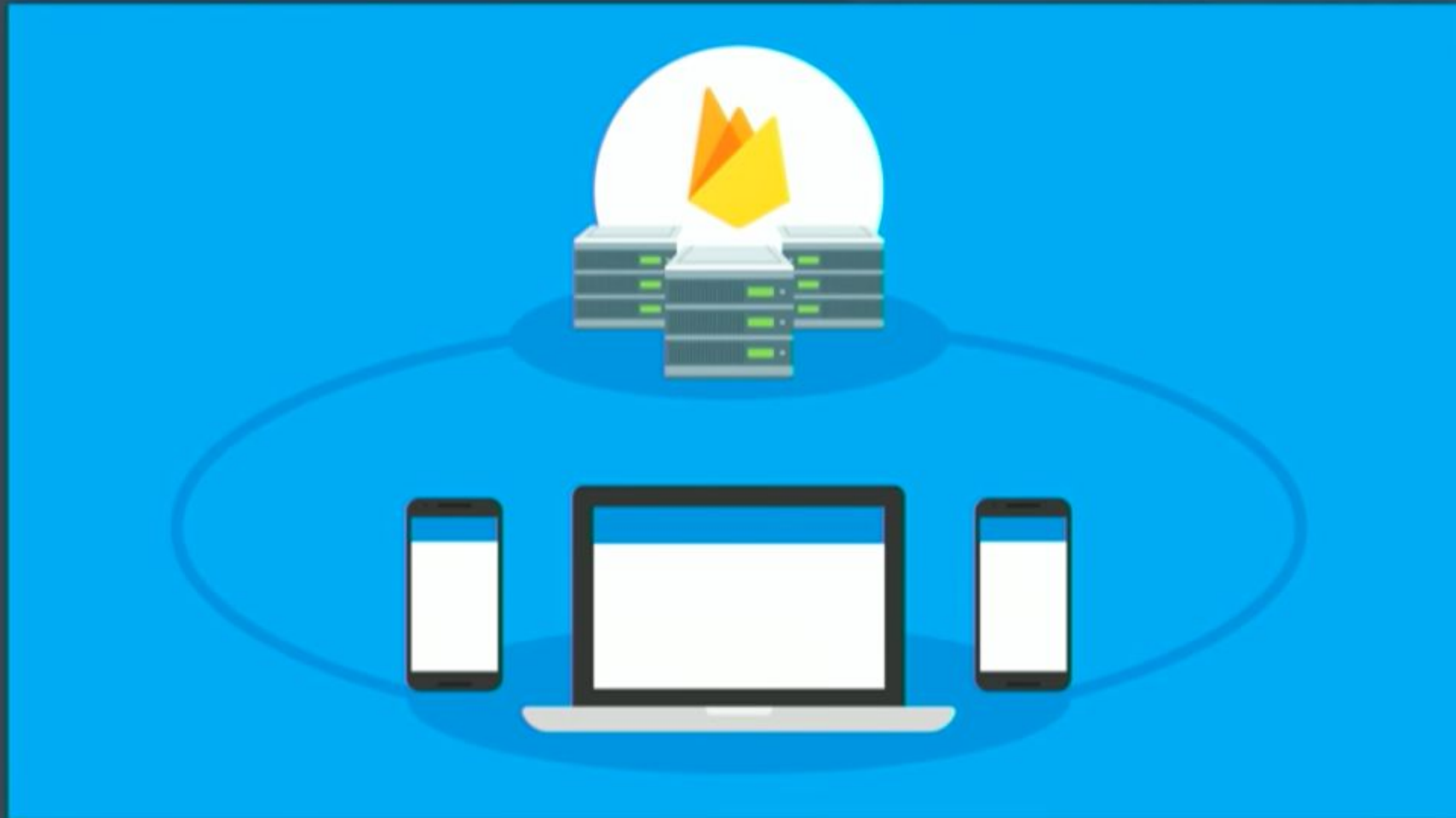


Fully managed
by Google



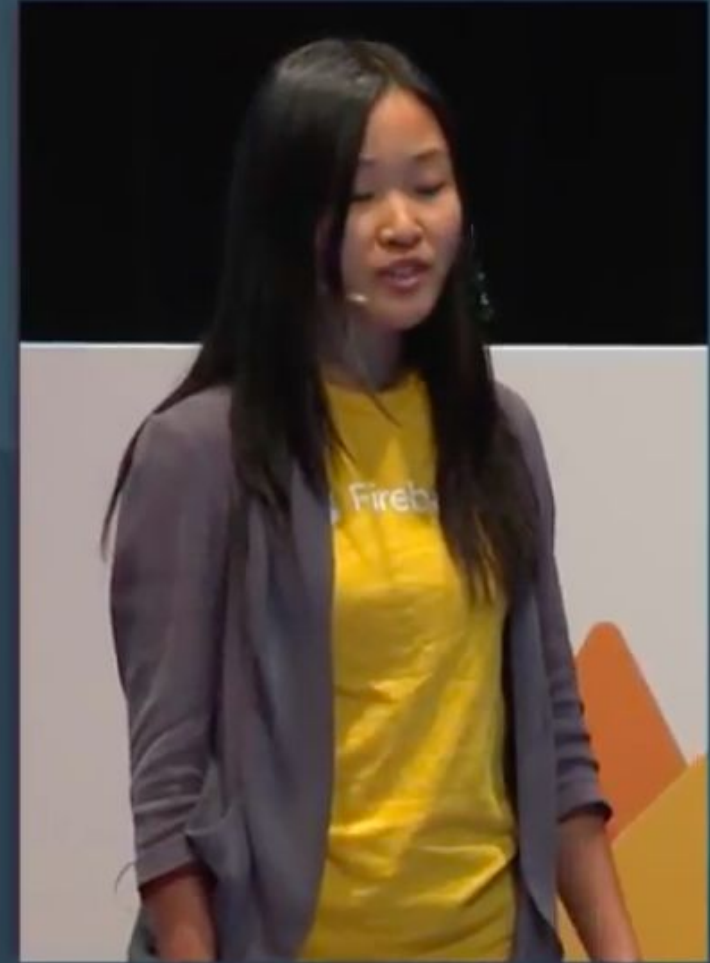


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How It Works





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Write Production Quality Cloud Functions **(Firebase Dev Summit 2017)**

Let's see it in action!

Cloud Functions. Udacity Firebase in a Weekend.

Implementation Steps

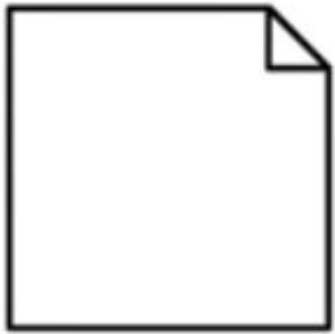
Name

Service

Conditions

Event Handler

EXAMPLE:



Name:
makeUppercase



Realtime
Database



Trigger on
specific path

"hello"



"HELLO"

makeUppercase
handler

Firestore CLI

Method/Function syntax

Java:

```
public int multiply(int a, int b) {  
    return a * b;  
}
```

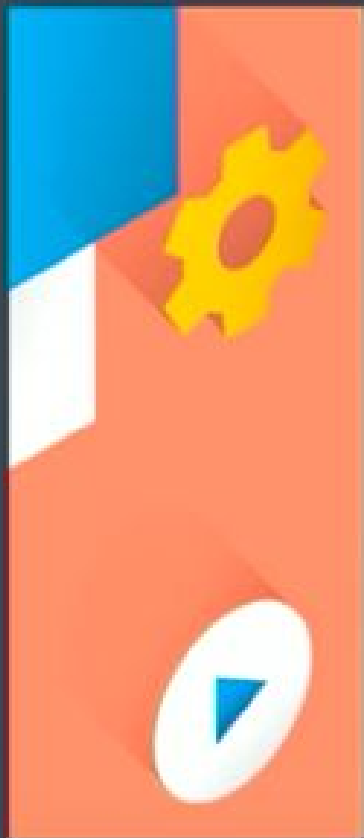
JavaScript:

Function declaration:

```
function multiply(a, b) {  
    return a * b;  
}
```

or, function expression:

```
// Variable assignment  
var multiply = function(a, b) {  
    return a * b;  
}
```



```
// You wouldn't enjoy this without await/async:  
  
async function waitUntilDone(operationId) {  
  let done = false;  
  try {  
    while (!done) {  
      let op = await fetchOperation(operationId);  
      done = op.done;  
    }  
  } finally {  
    console.log('Done waiting for op', operationId);  
  }  
}
```



Test Functions locally

**>> firebase serve --only
functions**


```
>> firebase experimental:functions:shell
```

```
CloudFest — node • node /usr/local/bin/firebase experimental:functions:shell --port 44444 — 130x32
~ — -bash
~/Desktop/CloudFest — node • node /usr/local/bin/firebase experimental:functions:shell --port 44444 +
PAOLAs-MacBook-Air:CloudFest paolagarciagarcia$ firebase experimental:functions:shell --port 44444
i functions: Preparing to emulate functions.
✓ functions: helloWorld
✓ functions: emojiify
firebase > data = "This cat is funny, lol"
'This cat is funny, lol'
firebase > emojiify(data)
'Successfully invoked function.'
firebase > info: User function triggered, starting execution
info: Emojifying...
info: Execution took 18 ms, user function completed successfully
```

>> firebase deploy

[Overview](#)


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DEVELOP


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Current billing period ▾

Nov 1 - Nov 30, 2017 (GMT+1)

Function	Event	Executions	Median run time
emojify	 ref.create /messages/{pushid}/text	5	266.95ms

Gracias!!!!
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