



Android for Beginners Course

Google Developer Groups Study Jams

#StudyJamsLive

Post your questions to:

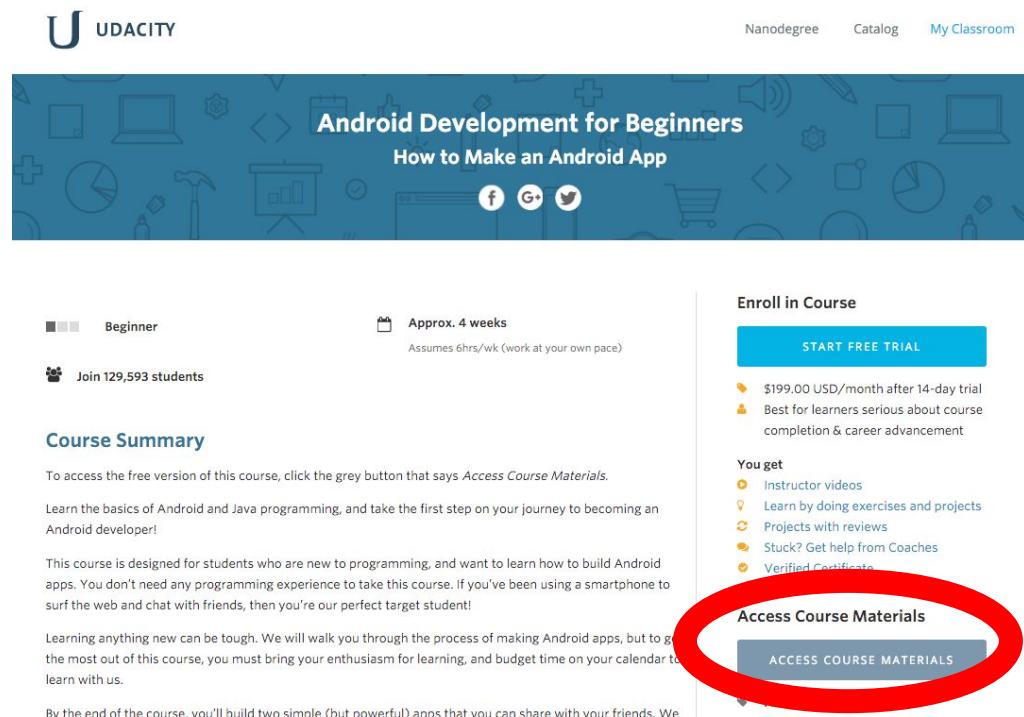
<http://j.mp/devstudyjamscommunity>

Enroll in Android for Beginners course

Go to: j.mp/devstudyjams

Create Udacity account.

Click on gray button that says
Access Course Materials for
free version of the course.



The image shows a screenshot of a Udacity course page for "Android Development for Beginners: How to Make an Android App". The page features the Udacity logo at the top left, followed by navigation links for "Nanodegree", "Catalog", and "My Classroom". The main title "Android Development for Beginners" is prominently displayed, along with a subtitle "How to Make an Android App". Below the title, there are social sharing icons for Facebook, Google+, and Twitter. The course level is listed as "Beginner" with a corresponding icon, and the duration is "Approx. 4 weeks", noting that it assumes 6 hours per week. A button labeled "START FREE TRIAL" is visible. The "Course Summary" section explains that to access the free version, one must click the grey button labeled "Access Course Materials". It also states that the course is designed for beginners and covers basics of Android and Java programming. The "You get" section lists benefits such as instructor videos, projects with reviews, and a verified certificate. The "Access Course Materials" button is highlighted with a large red circle. At the bottom, a note mentions that by the end of the course, learners will build two simple but powerful apps.

Android Development for Beginners



DASHBOARD



CLASSROOM



MATERIALS



DISCUSSION



OVERVIEW

Lesson 1B: Building Layouts

> Layout Weight

Github issues



MAPS APP

Horizontal Linear layout



TextView

Height

TextView

wrap-content

TextView

wrap-content

wrap-content

width

weight

because it wraps to the height
of the content inside of it.



Skip to Quiz

Android Development for Beginners



DASHBOARD



CLASSROOM



MATERIALS



DISCUSSION

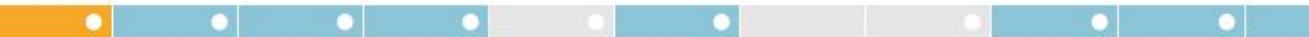


OVERVIEW

Lesson 1B: Building Layouts

> ViewGroups - Quiz

Github issues



VIEW GROUPS

1. How many views are there?

2. The mountain image is a _____ of the red ViewGroup.

- child parent

3. The red ViewGroup is the _____ of the "Hiking" TextView.

- child parent

4. Which views are siblings of each other?



Review Instructions

Submit Answer

Android Development for Beginners



DASHBOARD



CLASSROOM



MATERIALS



DISCUSSION



OVERVIEW

Lesson 1B: Building Layouts

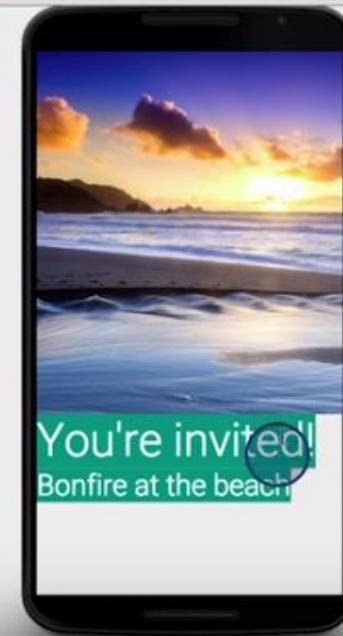
> Layout Weight - Solution

Github issues

XML Layout Code

```
1 <LinearLayout  
2     xmlns:android="http://schemas.android.com/apk/res/android"  
3     android:orientation="vertical"  
4     android:layout_width="match_parent"  
5     android:layout_height="match_parent">  
6  
7     <ImageView  
8         android:src="@drawable/ocean"  
9         android:layout_width="wrap_content"  
10        android:layout_height="wrap_content"  
11        android:scaleType="centerCrop" />  
12  
13     <TextView  
14         android:text="You're invited!"  
15         android:layout_width="wrap_content"  
16         android:layout_height="wrap_content"  
17         android:textColor="#android:color/white"  
18         android:textSize="54sp"  
19         android:background="#009688" />  
20  
21     <TextView  
22         android:text="Bonfire at the beach"  
23         android:layout_width="wrap_content"  
24         android:layout_height="wrap_content"  
25         android:textColor="#an  
26         android:textSize="34sp"  
27         android:background="#  
28     </LinearLayout>
```

The positioning of the views is incorrect, though, so let's fix that.



AVAILABLE IMAGES



1:41 / 3:06

CHEAT SHEET



Back to Quiz

Continue

Course Outline

Lesson 1A

Views

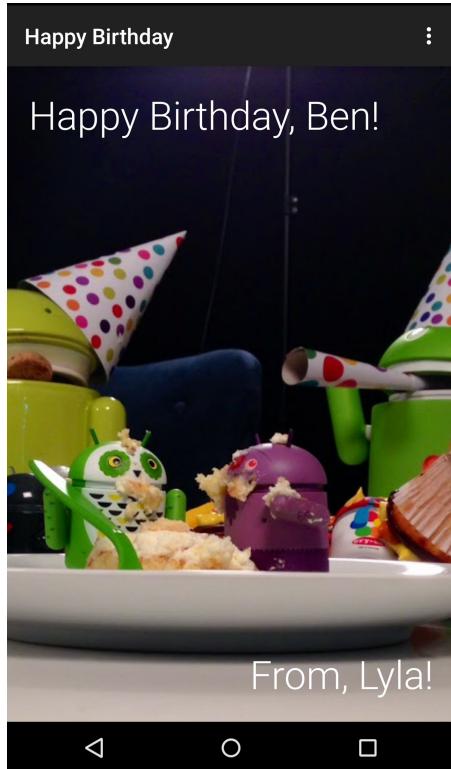
Lesson 1B

ViewGroups

Practice Set 1

Install Android Studio, Birthday Card App

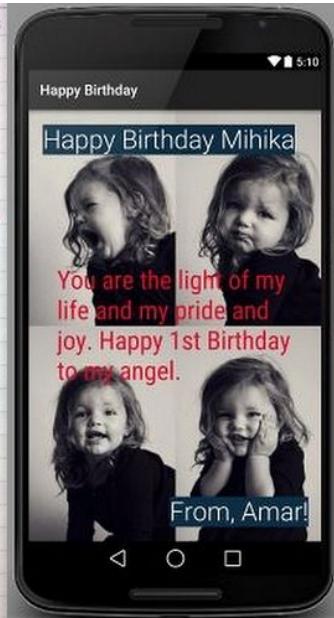
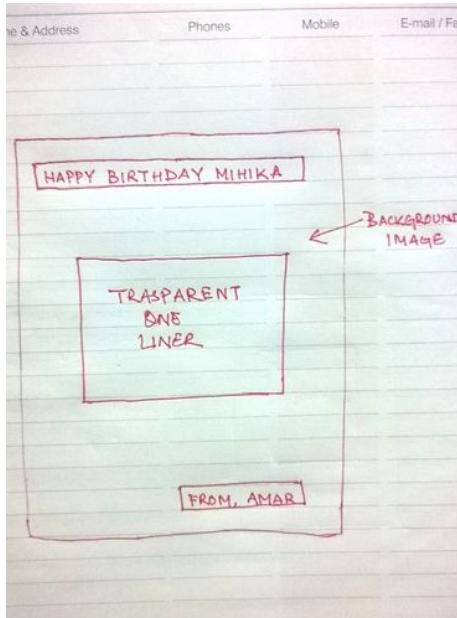
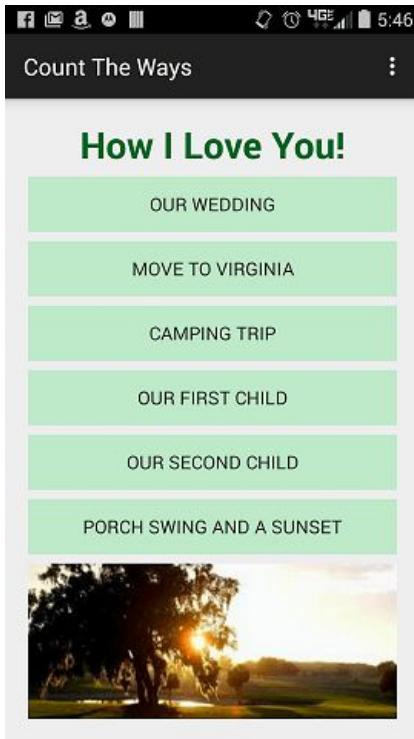
Birthday Card App



Make an app for a loved one -
for a birthday, anniversary, or
any occasion.

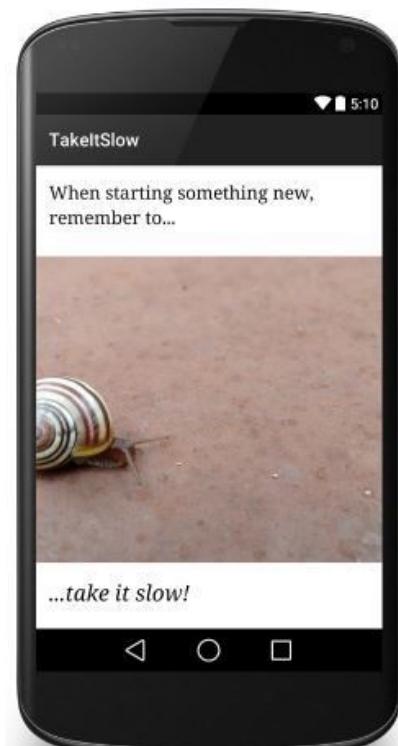
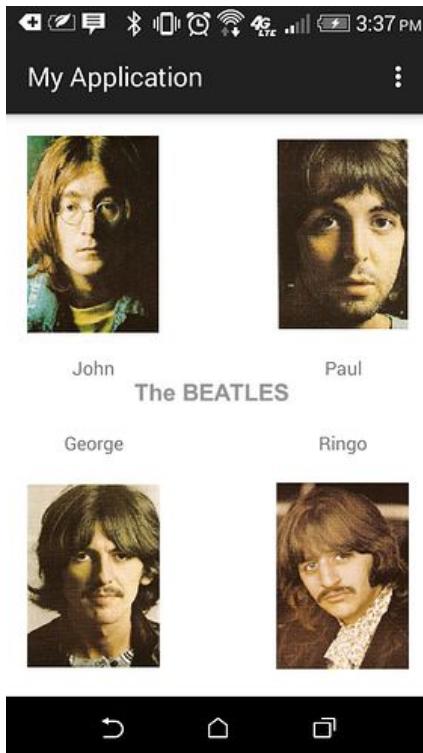
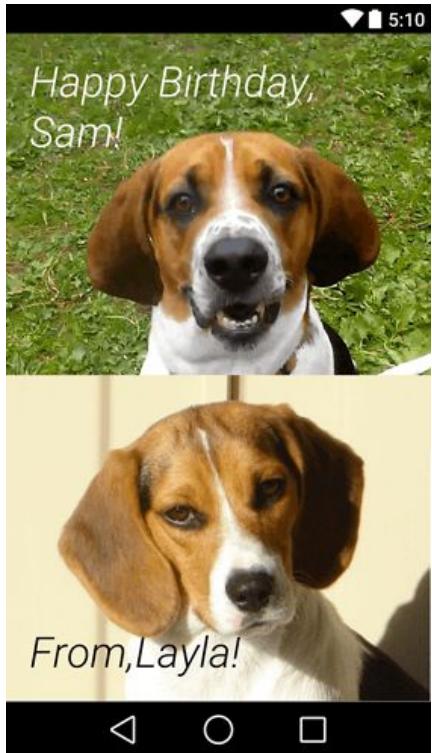
Example Student Work

goo.gl/FT2CJc



Example Student Work

goo.gl/FT2CJc



Course Outline

Lesson 2A

Button clicks, debugging, variables

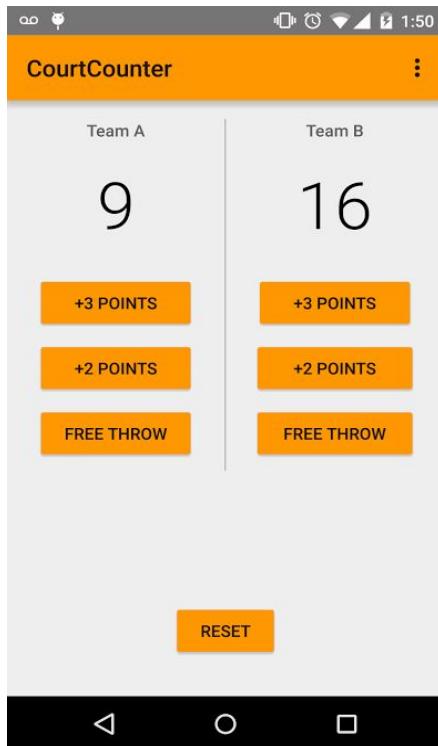
Lesson 2B

More complex layouts, data types

Practice Set 2

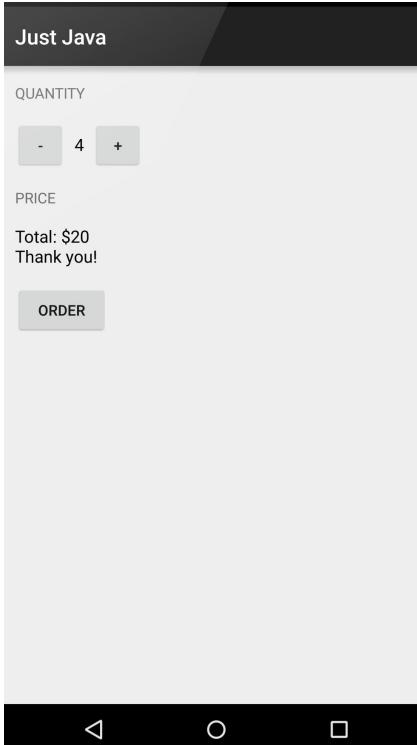
Basketball Score-Keeping App

Court Counter App



Make an app to keep track of the score of 2 teams in a basketball game.

Start the Just Java App



Build a form for ordering coffee and learn to control what happens when a user touches a button.



Course Outline

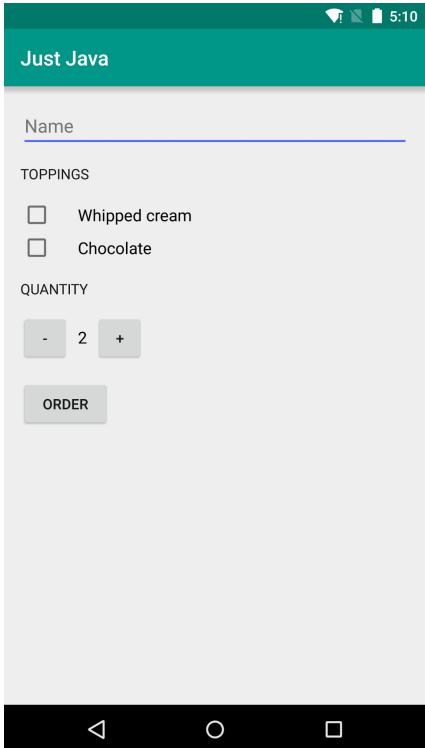
Lesson 3A

Object-oriented programming,
Methods, Classes

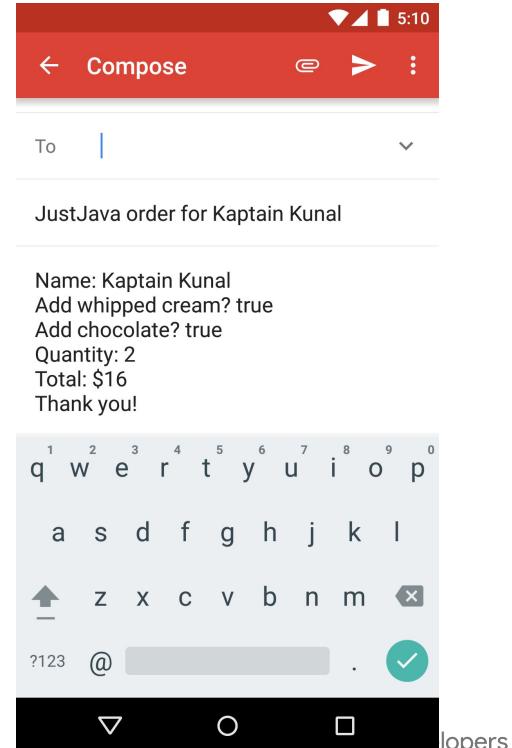
Lesson 3B

Control flow, navigating to other
apps, supporting other languages,
styles and themes

Finish the Just Java App



From the order form,
take in user input,
calculate total price, and
send the order off in
an email.



Final Project

Build your own **educational app** based on an area of your expertise.

Your app should teach the user 5 things about a certain topic.

Final Project Scope

- Contain Text, Images, Buttons
- Be a single screen that scrolls
- Can link to other apps like Maps or Dialer or Web browser

Example Student Work

Check out the discussion forum for final projects from students: goo.gl/3Xdrpi



#StudyJamsLive

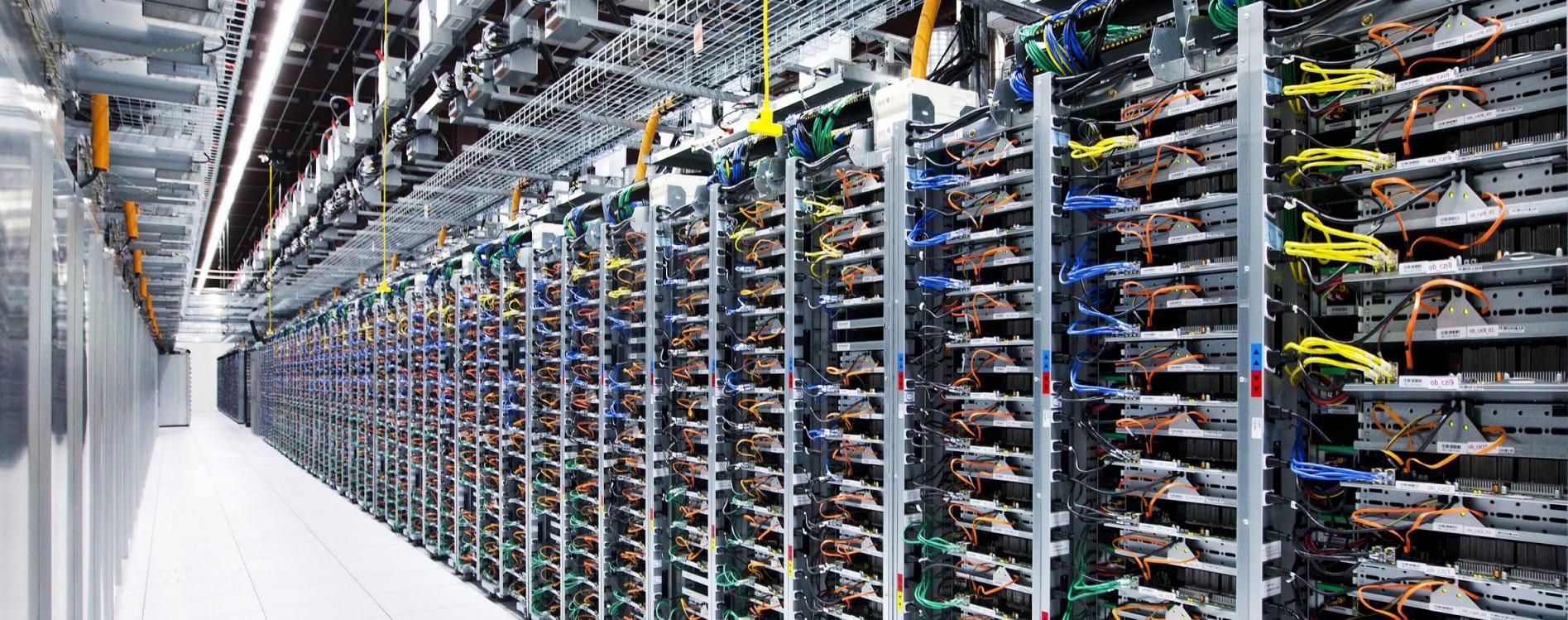
Building Extraordinary Apps with Firebase

Frank van Puffelen
@puf, @Firebase



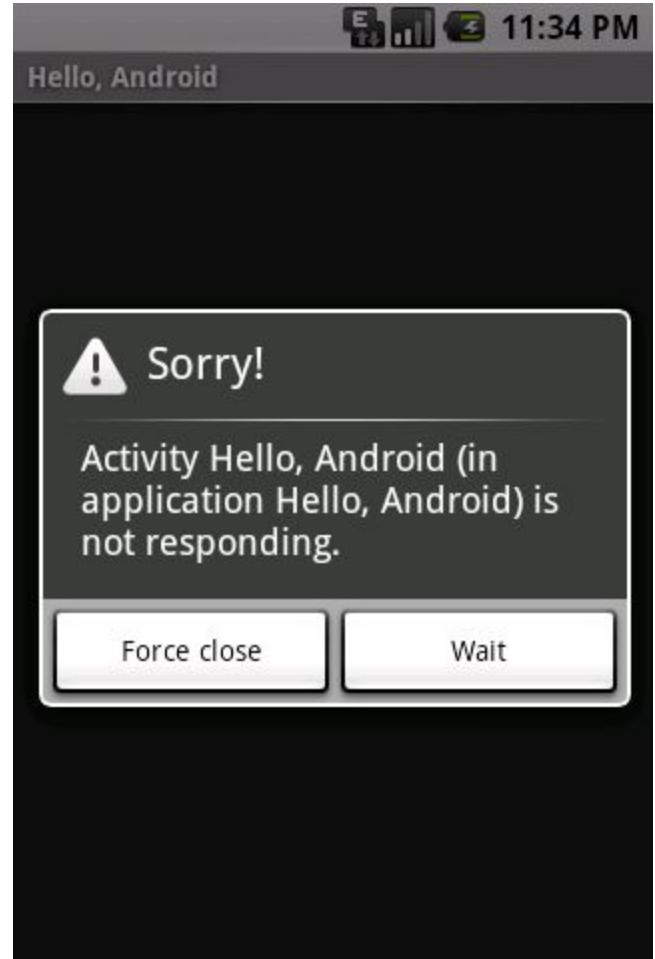
We live in a multi-device, mobile world...





...backed by complex infrastructure





android.os.NetworkOnMainThreadException

▲ In the below code I got an error when running my Android project for RssReader.

1106
▼
333

```
URL url = new URL(urlToRssFeed);
SAXParserFactory factory = SAXParserFactory.newInstance();
SAXParser parser = factory.newSAXParser();
XMLReader xmlreader = parser.getXMLReader();
RssHandler theRSSHandler = new RssHandler();
xmlreader.setContentHandler(theRSSHandler);
InputSource is = new InputSource(url.openStream());
xmlreader.parse(is);
return theRSSHandler.getFeed();
```

And it shows an error:

android.os.NetworkOnMainThreadException

How can I fix this issue?

 android networkonmainthread thread-exceptions

share edit close flag unprotect

edited Apr 15 '15 at 22:54



Braiam

2,079 ● 7 ● 20 ● 47

asked Jun 14 '11 at 12:02



bejoy george

5,816 ● 4 ● 9 ● 15

protected by Elenasys Jan 28 '14 at 18:29

This question is protected to prevent "thanks!", "me too!", or spam answers by new users. To answer it, you must have earned at least 10 [reputation](#) on this site.

1

2

next

This exception is thrown when an application attempts to perform a networking operation on its main thread. Run your code in `AsyncTask`:

1425

```
class RetrieveFeedTask extends AsyncTask<String, Void, RSSFeed> {  
  
    private Exception exception;  
  
    protected RSSFeed doInBackground(String... urls) {  
        try {  
            URL url= new URL(urls[0]);  
            SAXParserFactory factory =SAXParserFactory.newInstance();  
            SAXParser parser=factory.newSAXParser();  
            XMLReader xmlreader=parser.getXMLReader();  
            RssHandler theRSSHandler=new RssHandler();  
            xmlreader.setContentHandler(theRSSHandler);  
            InputSource is=new InputSource(url.openStream());  
            xmlreader.parse(is);  
            return theRSSHandler.getFeed();  
        } catch (Exception e) {  
            this.exception = e;  
            return null;  
        }  
    }  
  
    protected void onPostExecute(RSSFeed feed) {  
        // TODO: check this.exception  
        // TODO: do something with the feed  
    }  
}
```



How to execute the task: In `MainActivity.java` file you can add this line within your `onCreate()` method

```
new RetrieveFeedTask().execute(urlToRssFeed);
```

Don't forget to add this to `AndroidManifest.xml` file:

```
<uses-permission android:name="android.permission.INTERNET"/>
```

share edit flag

edited Dec 10 '14 at 7:45

 centic
4,515 ● 3 ● 22 ● 53

answered Jun 14 '11 at 12:15

 spektom
17.9k ● 1 ● 28 ● 54



#StudyJamsLive

Building Extraordinary Apps with Firebase

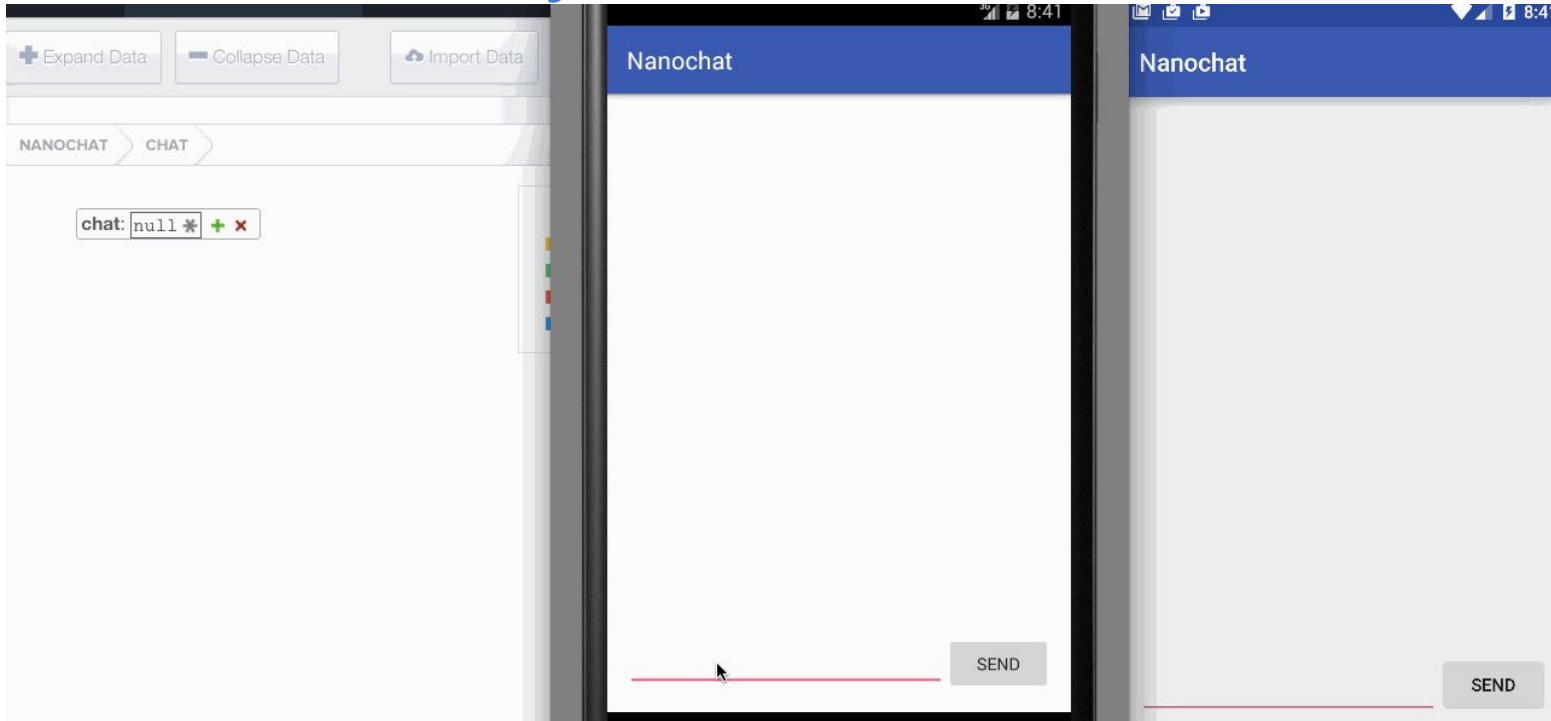
Frank van Puffelen
@puf, @Firebase



Firebase data is
synchronized
directly to client devices



Firebase data is synchronized directly to client devices





```
// Create a Firebase database reference
Firebase ref = new Firebase("https://nanochat.firebaseio.com");

// Write a chat message to Firebase
sendBtn.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        ref.push().setValue(new ChatMessage("puf", messageTxt.getText()));
    }
})
```

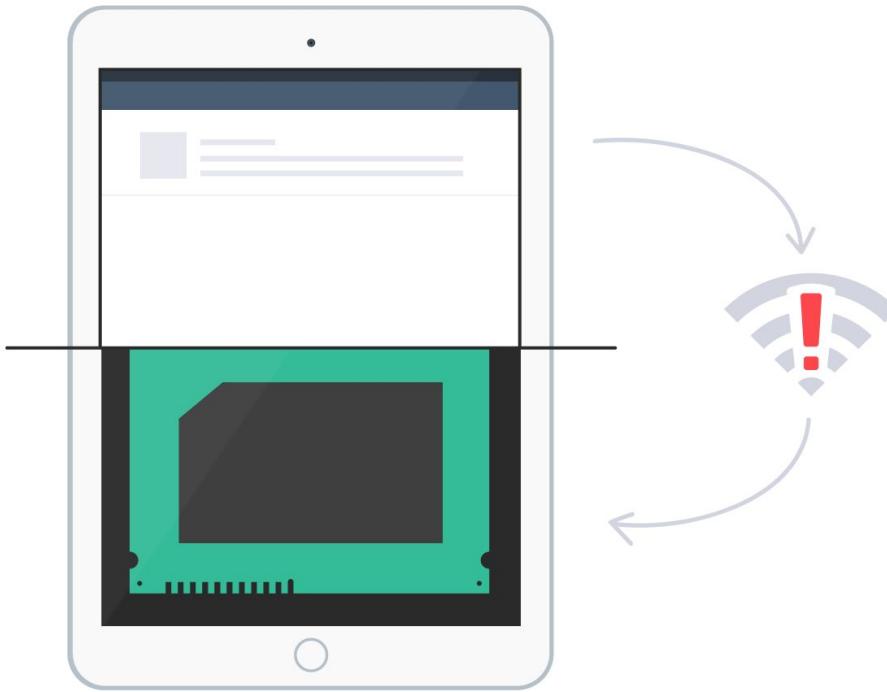




```
// Create a Firebase database reference
Firebase ref = new Firebase("https://nanochat.firebaseio.com");

// Write a chat message to Firebase
ListAdapter adapter = new FirebaseListAdapter<ChatMessage>(
    this, ChatMessage.class, R.layout.list_item, ref.limitToLast(10)) {
    protected void populateView(ChatView view, ChatMessage chat, int position) {
        view.setName(chat.getName());
        view.setMessage(chat.getMessage());
    }
}
```





Database: Offline support is built-in



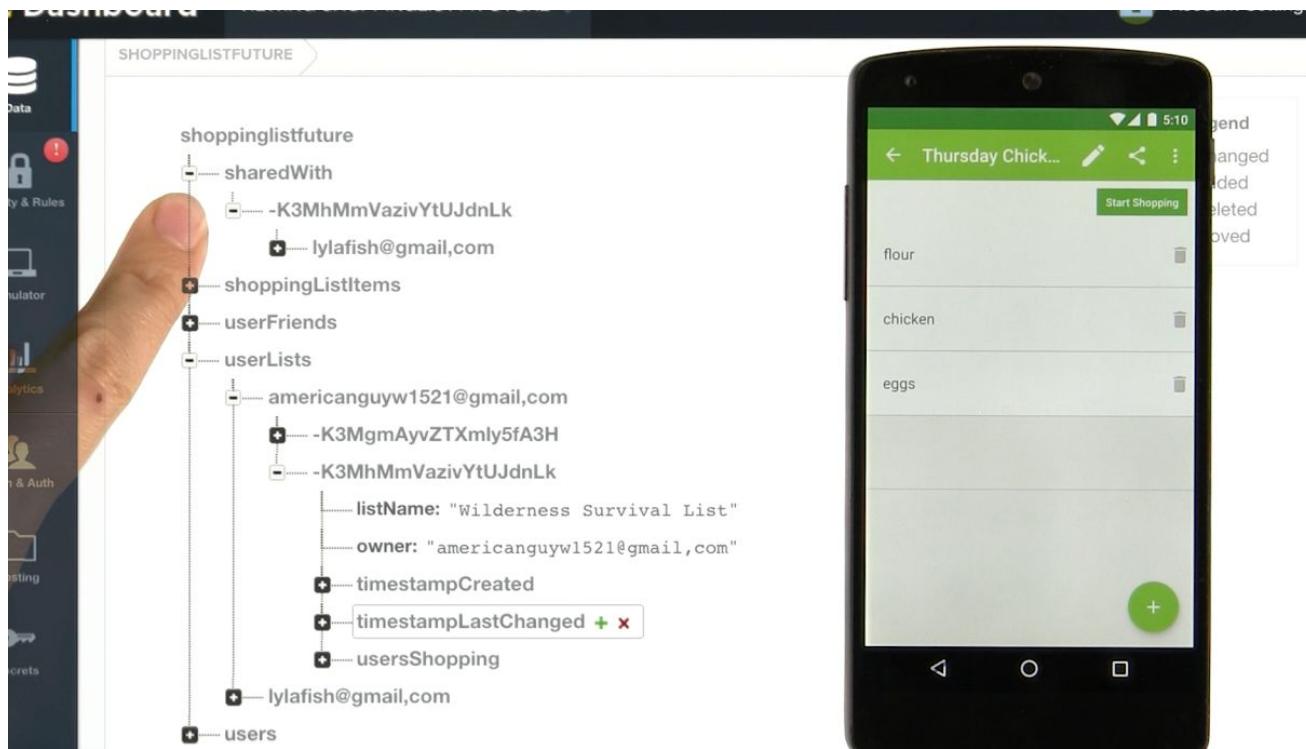
Database: Offline persistence for Android and iOS

New free Firebase course by Udacity



#StudyJamsLive

New free Firebase course by Udacity



New free Firebase course by Udacity



New free Firebase course by Udacity

Make User Data

AuthData

Email
Provider Data
UID



Your Data

ShoppingLists
ShoppingListItems

And now Users with app-specific
user data!

New free Firebase course by Udacity



#StudyJamsLive



Google Cloud Platform in 5 Minutes

Sandeep Dinesh
Developer Advocate



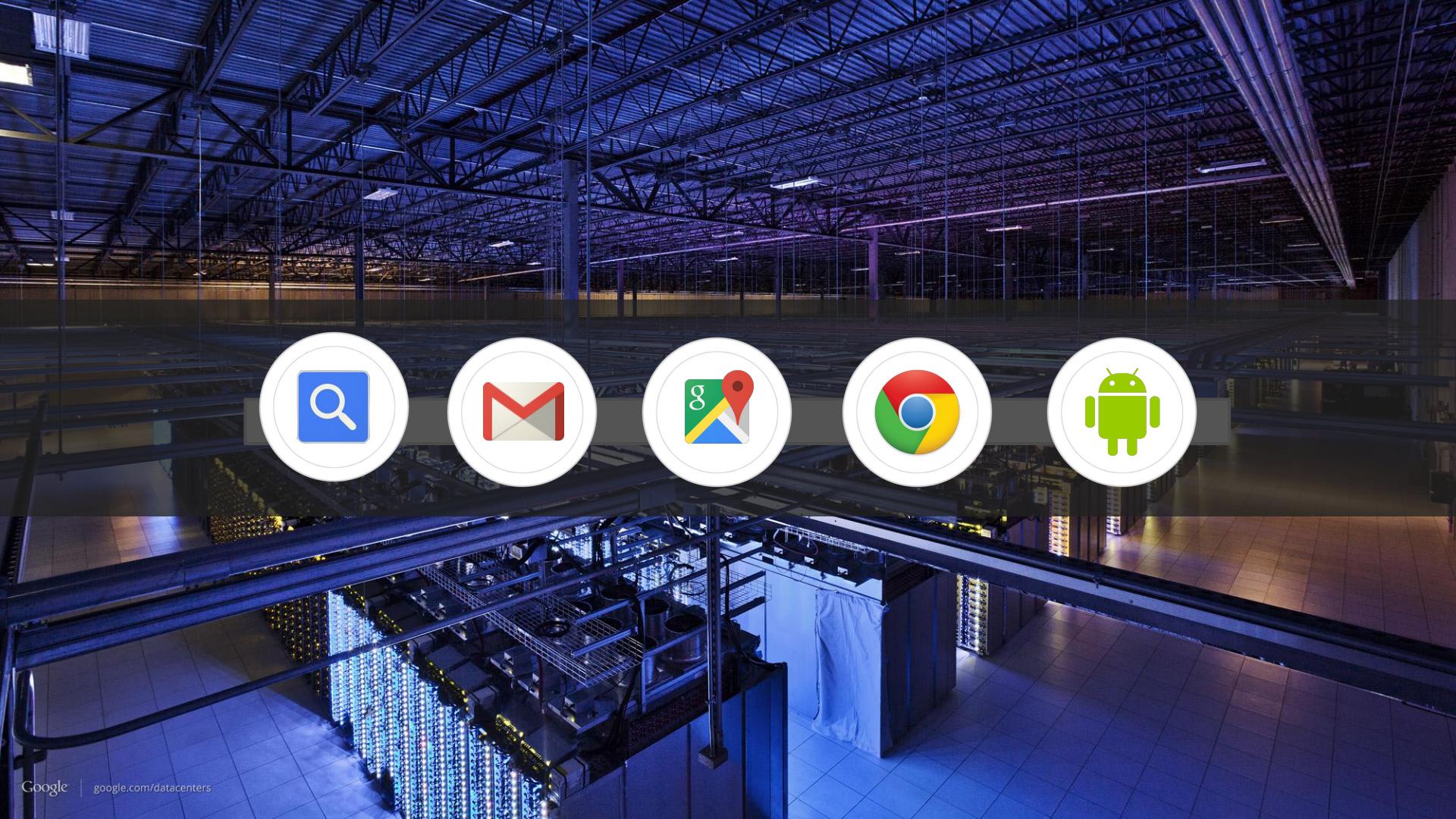
Google Cloud Platform



#StudyJamsLive

Google Cloud Platform

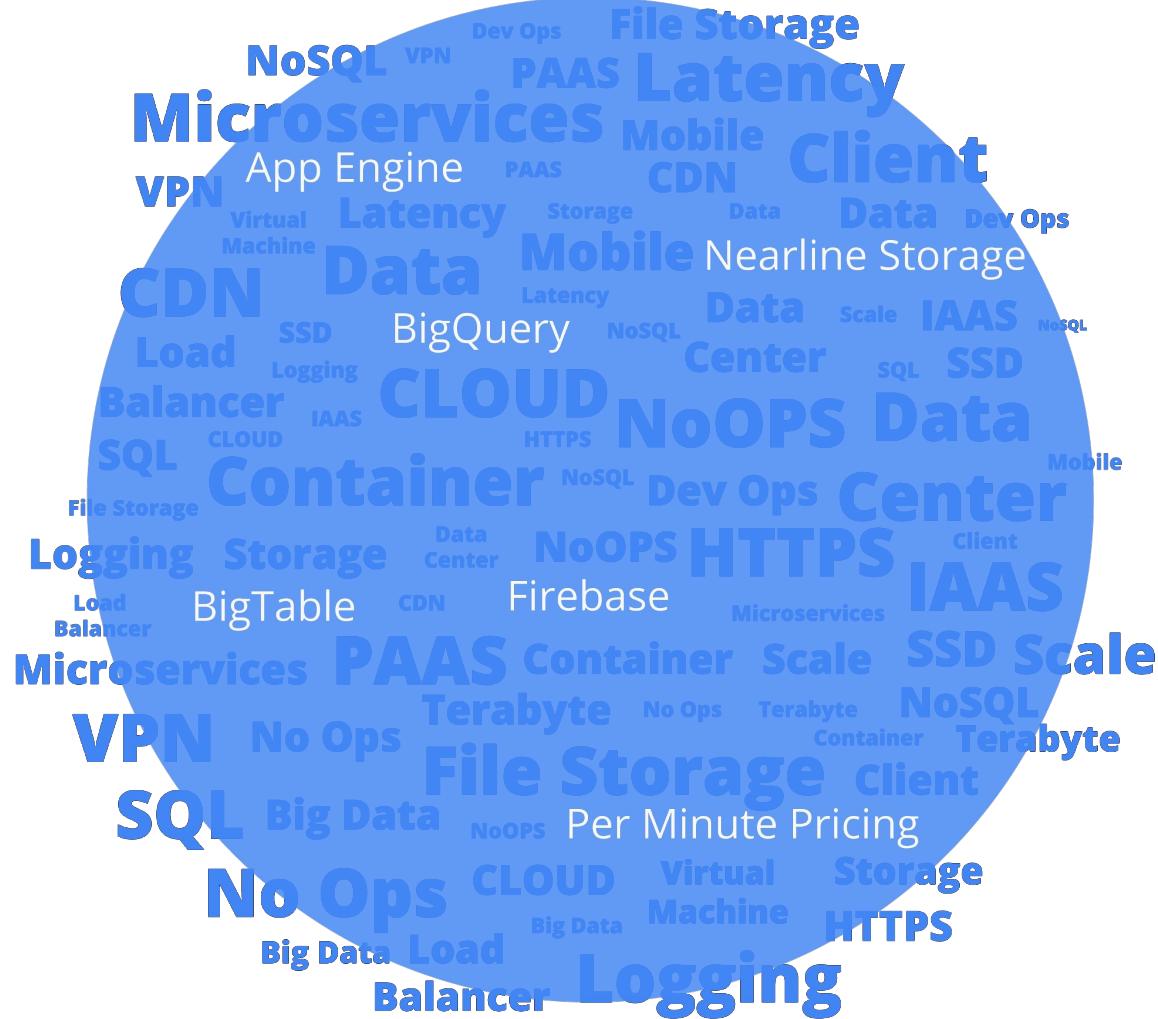
@sandeepdinesh



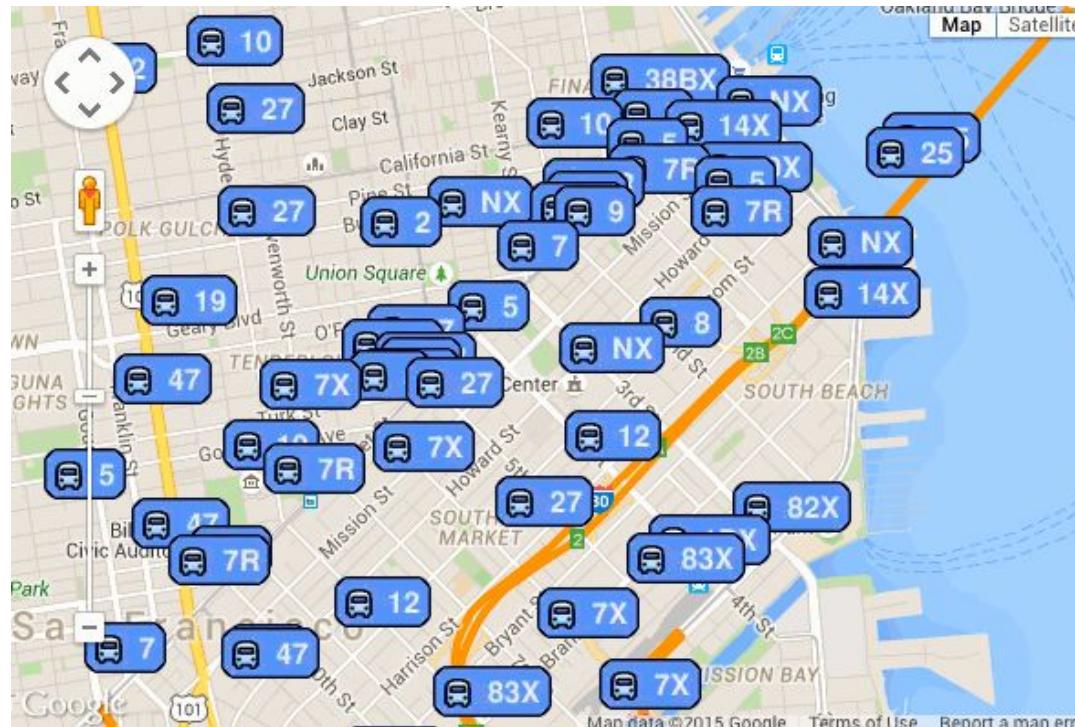
Google Cloud Platform





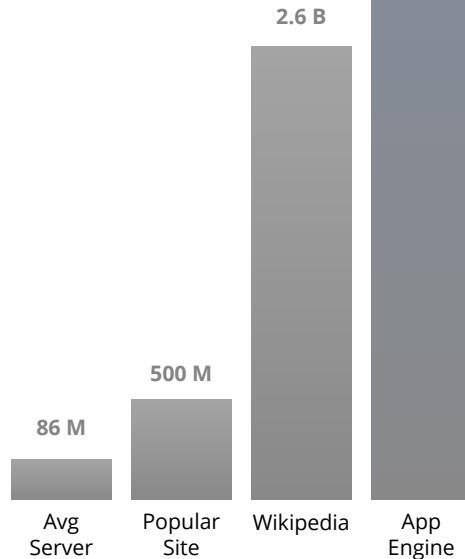


Firebase



App Engine

Monthly Requests



App Engine



Big Query

The screenshot shows the Google BigQuery playground interface. On the left, there's a sidebar with 'COMPOSE QUERY' and 'BigQuery Playground' sections. The 'BigQuery Playground' section lists datasets like 'freebase', 'showdown', 'wikipedia', etc. The main area contains a query editor with the following SQL code:

```
1 SELECT Sum(requests) as requests, title
2 FROM [wikipedia.usage2015]
3 WHERE source = 'en'
4 AND length(title) > 2
5
6
7 GROUP EACH BY title
8 ORDER BY requests desc
9 LIMIT 100;
```

Below the query editor are buttons for 'RUN QUERY', 'Save Query', 'Save View', 'Format Query', and 'Show Options'. A message 'Query complete (36.3s elapsed, 1.13 TB processed)' is displayed in a box. The results table shows the top 7 rows of data:

1	1842008162	Main_Page
2	58968979	Academy_Awards
3	48653503	Special:Search
4	28763595	File:Squeeze_down_in_the_valley.jpg
5	18607213	Malware
6	14461002	Special:HideBanners
7	8929399	Liberland

At the bottom, there are navigation links: 'First', '< Prev', 'Rows 1-7 of 100', 'Next >', and 'Last'.

Pricing



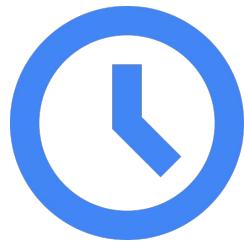
Google Cloud Platform



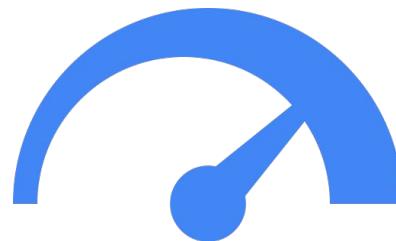
#StudyJamsLive

@sandeepdinesh

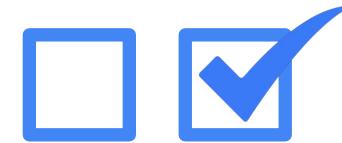
The Google Cloud Pricing Advantage



Per minute
pricing

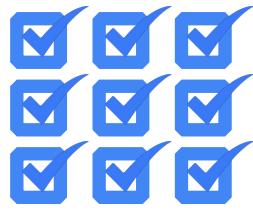


Sustained
usage
discounts

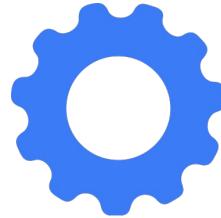


Sane
Options

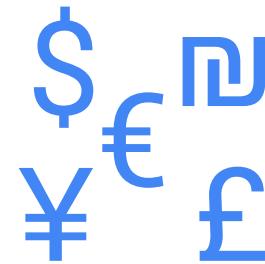
So if you only remember 3 things...



Full Platform



Unique Tools



Pricing



Google Cloud Platform

+

U UDACITY



Enroll in Android for Beginners course

Go to: j.mp/devstudyjams

Create Udacity account.

Click on gray button that says
Access Course Materials for
free version of the course.

The image shows a screenshot of a Udacity course page. At the top, the Udacity logo is visible along with navigation links for 'Nanodegree', 'Catalog', and 'My Classroom'. The main title of the course is 'Android Development for Beginners: How to Make an Android App'. Below the title, there are social sharing icons for Facebook, Google+, and Twitter. The course is categorized as 'Beginner' and has an estimated duration of 'Approx. 4 weeks' (Assumes 6hrs/wk (work at your own pace)). It currently has 129,593 students enrolled. A large blue button labeled 'START FREE TRIAL' is prominently displayed. To the right, there's a section titled 'Enroll in Course' with a smaller blue button. Below that, a yellow icon indicates a price of '\$199.00 USD/month after 14-day trial'. Further down, a section titled 'Course Summary' provides a brief overview of the course content and target audience. At the bottom of the page, a large red circle highlights a gray button labeled 'ACCESS COURSE MATERIALS'.