

# Lecture #10

# HipMenu Presentation &

# Firebase Intro

Mobile Applications 2018-2019

# Presentation





**James Tamplin**



**Andrew Lee**



**James Tamplin**



**Andrew Lee**



**2007**



**James Tamplin**



**Andrew Lee**

**Various  
projects**



**2007**

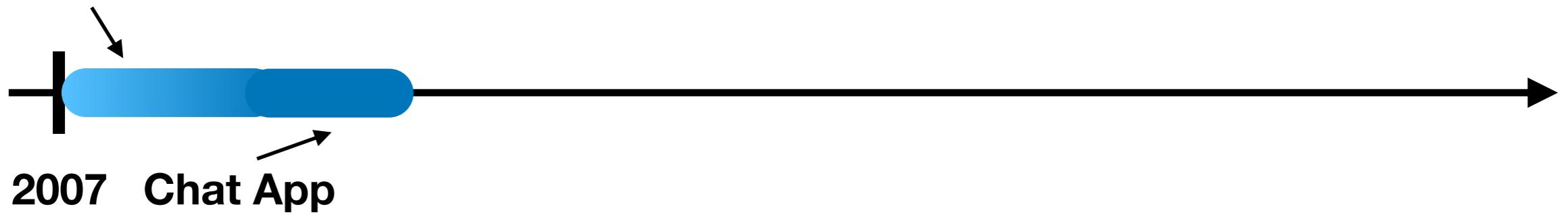


**James Tamplin**



**Andrew Lee**

**Various  
projects**



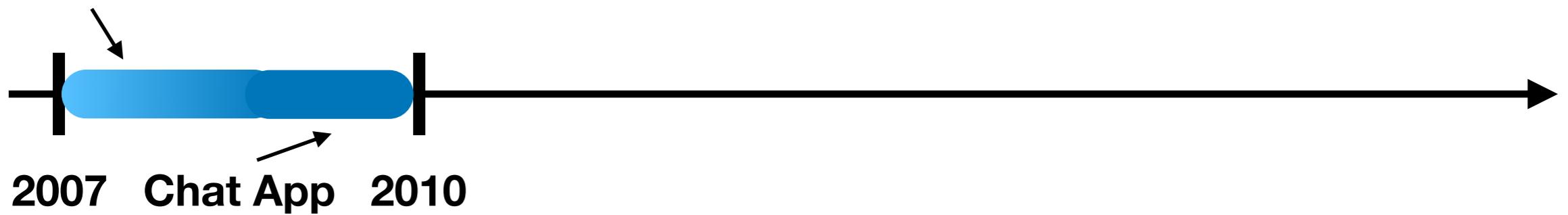


**James Tamplin**



**Andrew Lee**

**Various  
projects**

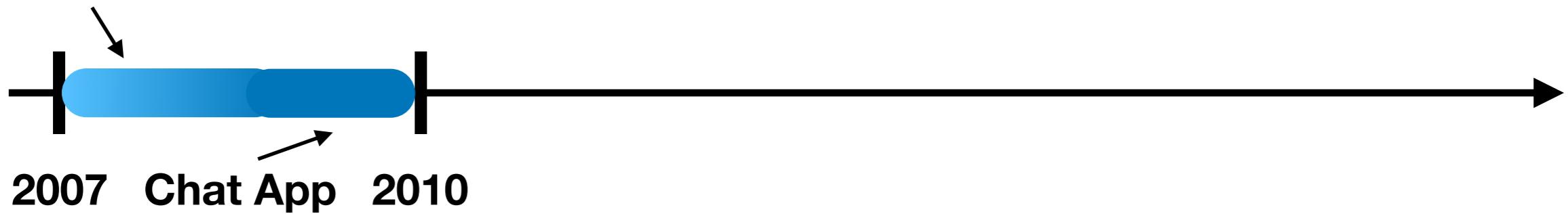




**James Tamplin**

**Andrew Lee**

**Various  
projects**



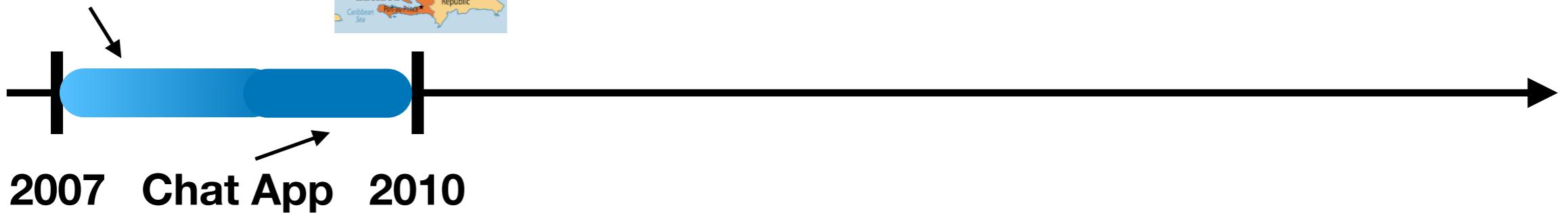


**James Tamplin**



**Andrew Lee**

**Various  
projects**



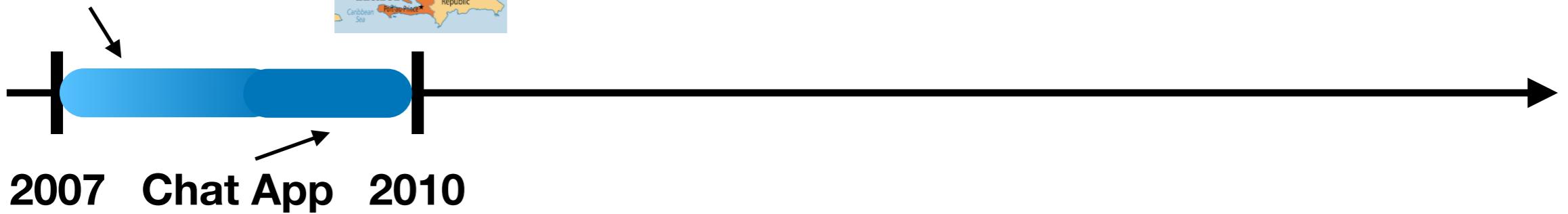


**James Tamplin**



**Andrew Lee**

**Various  
projects**



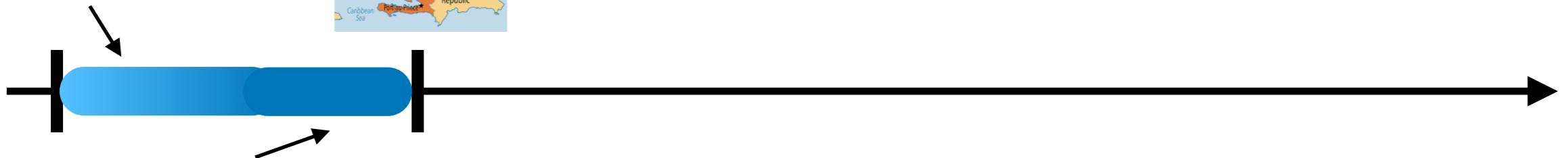


**James Tamplin**



**Andrew Lee**

**Various  
projects**



<https://startupandrew.com/posts/my-experiences-in-the-haitian-earthquake/>

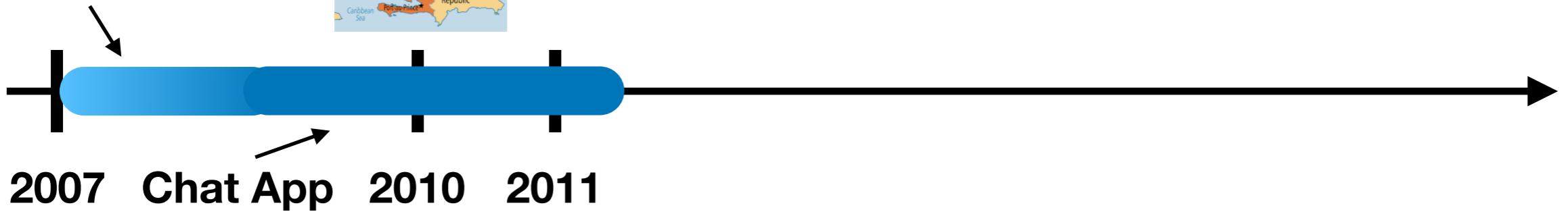


**James Tamplin**



**Andrew Lee**

**Various  
projects**

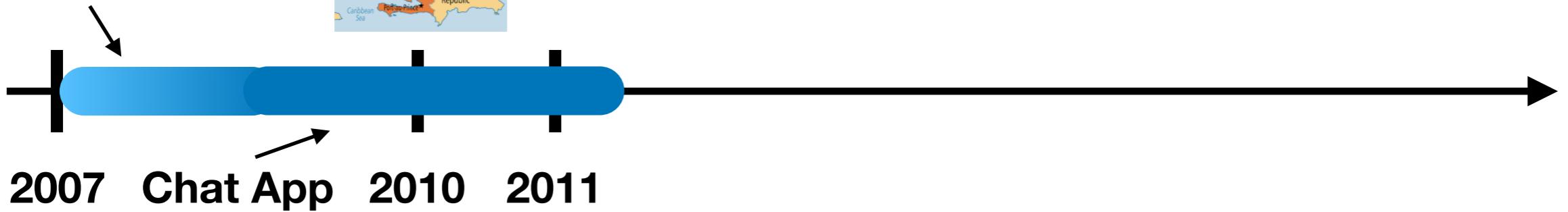




**James Tamplin**

**Andrew Lee**

**Various  
projects**



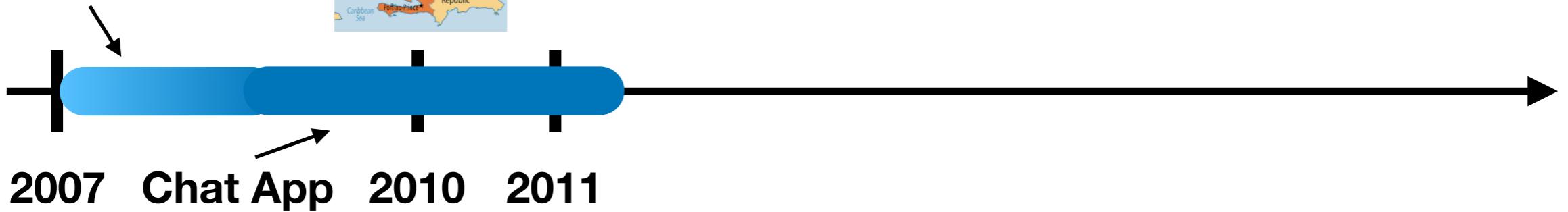


**James Tamplin**



**Andrew Lee**

**Various  
projects**



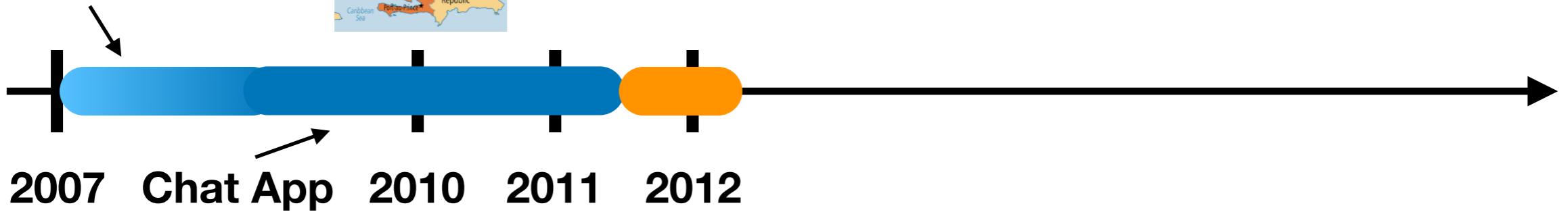


**James Tamplin**



**Andrew Lee**

**Various  
projects**





# Firebase

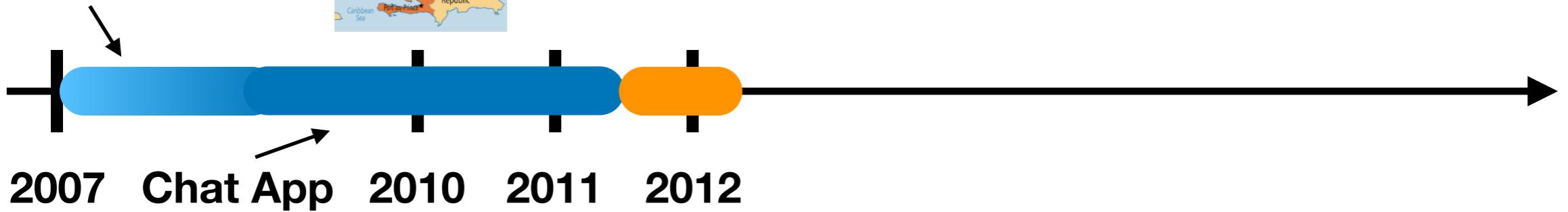


**James Tamplin**



**Andrew Lee**

**Various  
projects**





# Firebase

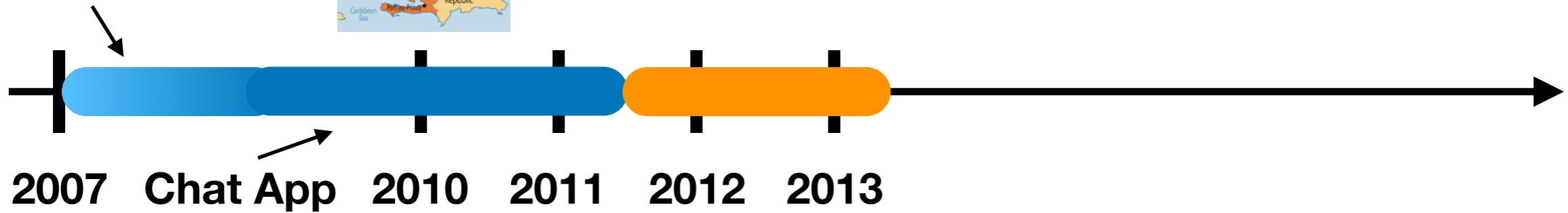


**James Tamplin**



**Andrew Lee**

**Various  
projects**





# Firebase

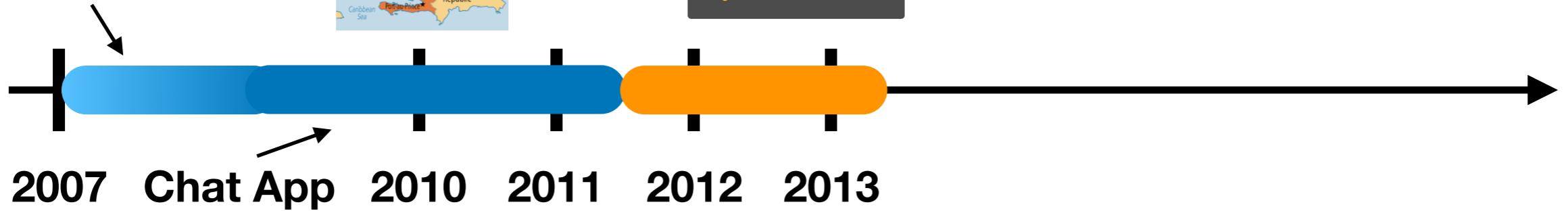


**James Tamplin**



**Andrew Lee**

**Various  
projects**





# Firebase

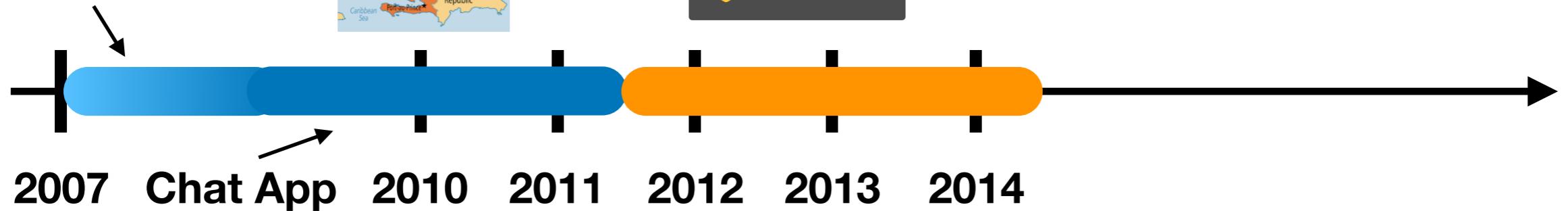


**James Tamplin**



**Andrew Lee**

**Various  
projects**





# Firebase



James Tamplin

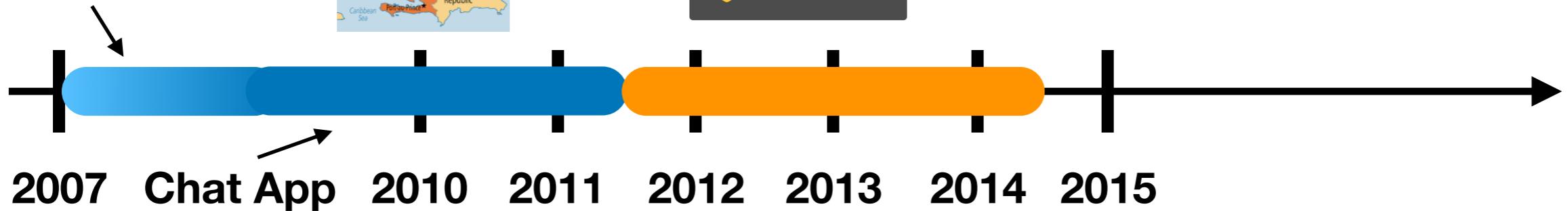


Andrew Lee

# Google



Various  
projects





# Firebase



James Tamplin

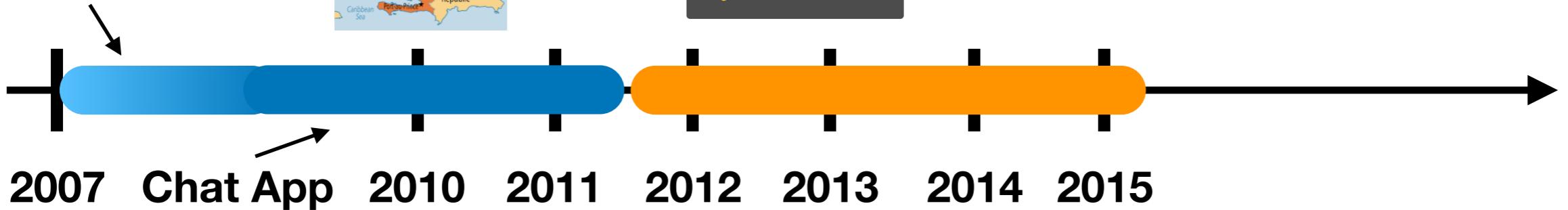


Andrew Lee

# Google



Various  
projects





# Firebase



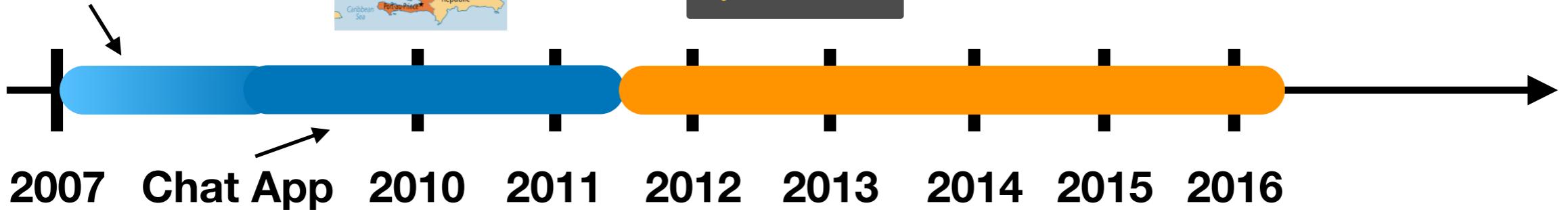
James Tamplin



Andrew Lee



Various  
projects





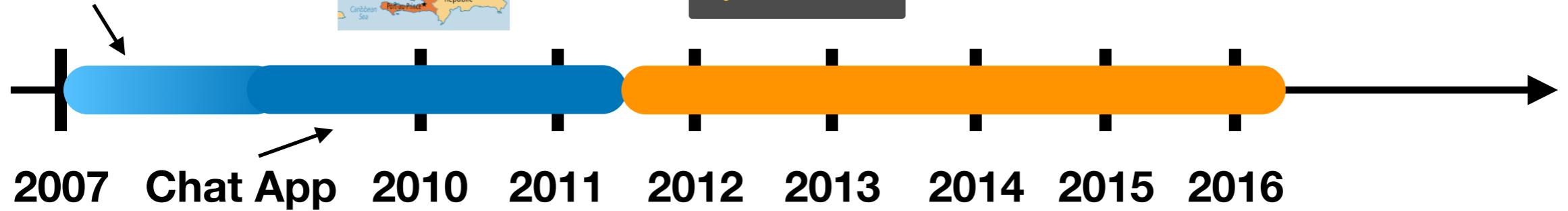
# Firebase



# Google



Various  
projects





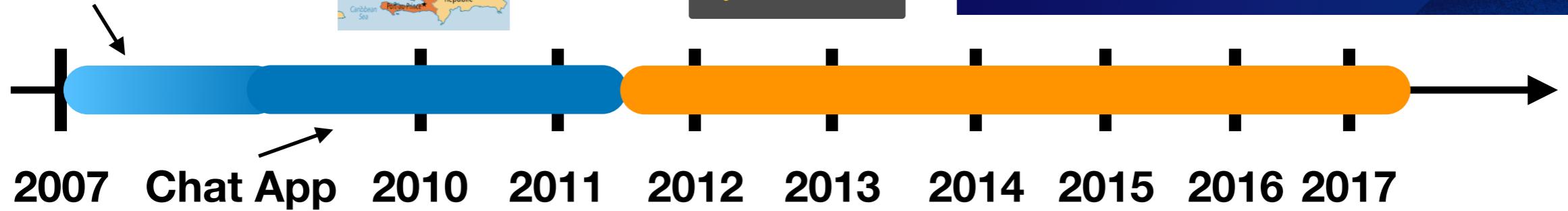
# Firebase



Google

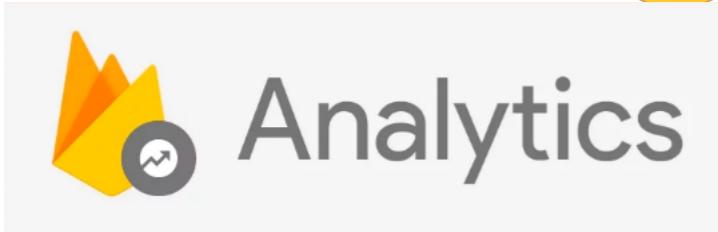


Various  
projects





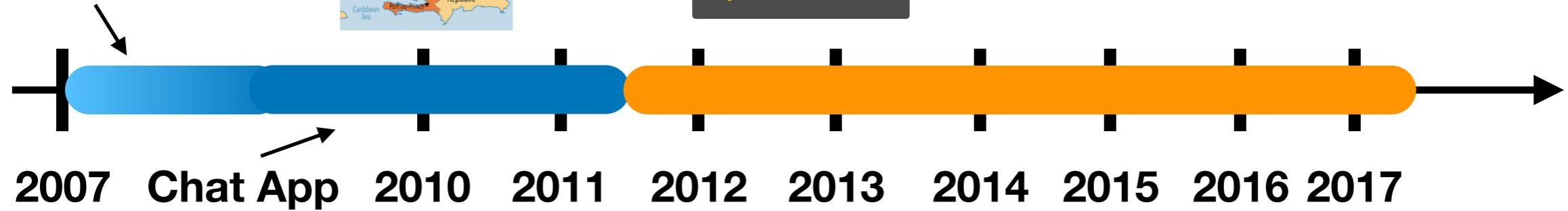
# Firebase



Google

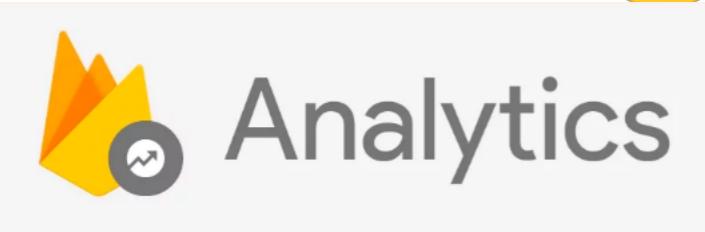


Various  
projects





# Firebase



Cloud Function  
for Firebase



Firebase  
Authentication



Google



Cloud Storage  
for Firebase

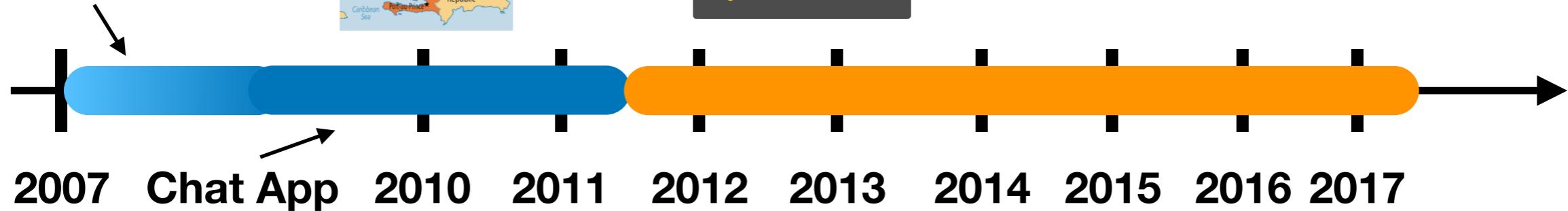


Cloud  
Firestore



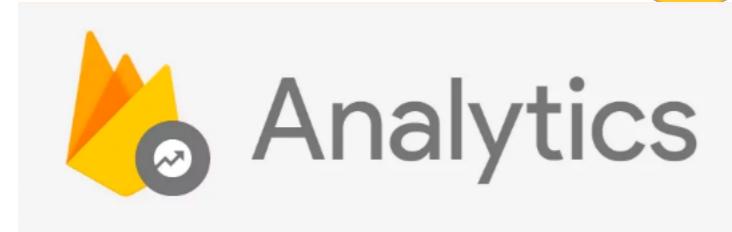
Firebase  
Hosting

Various  
projects

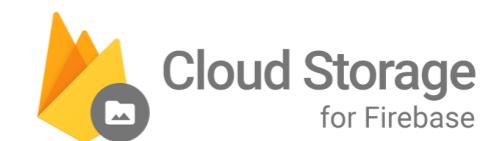




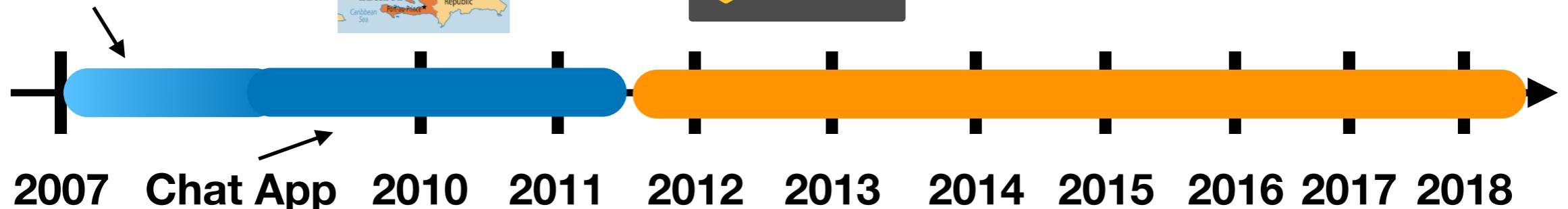
# Firebase



Google



Various  
projects





# Firebase



ANDROID



iOS



# Firebase

 Flutter



ANDROID



iOS



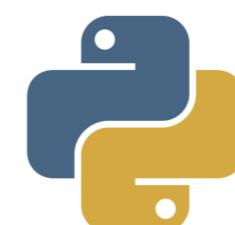


# Firebase



ANDROID

iOS



python



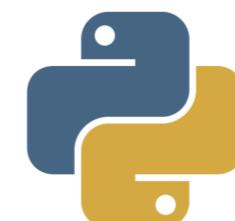
# Firebase

Over 1.5 million apps  
actively using Firebase  
every month!



ANDROID

iOS



# Add Firebase to Your Project



Firebase gives you the tools and infrastructure from Google to help you develop, grow and earn money from your app. [Learn more](#)

- Using the assistant, in Android Studio:

1. Tools -> Firebase.

2. Select the service.

3. Connect to Firebase.

▼ **Analytics**

Measure user activity and engagement with free, easy, and unlimited analytics. [More info](#)

► [Get Started with Firebase Analytics](#)

► **Cloud Messaging**

Deliver and receive messages and notifications reliably across cloud and device. [More info](#)

► **Authentication**

Sign in and manage users with ease, accepting emails, Google Sign-In, Facebook and other login providers. [More info](#)

► **Realtime Database**

Store and sync data in realtime across all connected clients. [More info](#)



Firebase gives you the tools and infrastructure from Google to help you develop, grow and earn money from your app. [Learn more](#)

- Using the assistant, in Android Studio:

1. Tools -> Firebase.

2. Select the service.

3. Connect to Firebase.

- Manually:

- Create a project in [console.firebaseio.google.com](https://console.firebaseio.google.com)

- Download the config file.

- Add the SDK

▼ **Analytics**

Measure user activity and engagement with free, easy, and unlimited analytics. [More info](#)

► [Get Started with Firebase Analytics](#)

► **Cloud Messaging**

Deliver and receive messages and notifications reliably across cloud and device. [More info](#)

► **Authentication**

Sign in and manage users with ease, accepting emails, Google Sign-In, Facebook and other login providers. [More info](#)

► **Realtime Database**

Store and sync data in realtime across all connected clients. [More info](#)

# Add the SDK

Root-level build.gradle:

```
buildscript {  
    // ...  
    dependencies {  
        // ...  
        classpath 'com.google.gms:google-services:4.2.0' // google-services plugin  
    }  
}  
  
allprojects {  
    // ...  
    repositories {  
        // ...  
        google() // Google's Maven repository  
    }  
}
```

# Add the SDK

Module-level build.gradle:

```
apply plugin: 'com.android.application'

android {
    // ...
}

dependencies {
    // ...
    implementation 'com.google.firebaseio:firebase-core:16.0.6'

    // Getting a "Could not find" error? Make sure you have
    // added the Google maven repository to your root build.gradle
}

// ADD THIS AT THE BOTTOM
apply plugin: 'com.google.gms.google-services'
```

# Lecture outcomes

- Details about HipMenu's:
  - Development approach.
  - Feature Toggles implementation details.
  - Mobile testing infrastructure.
  - General development guidelines.
- Introduction to Firebase.

