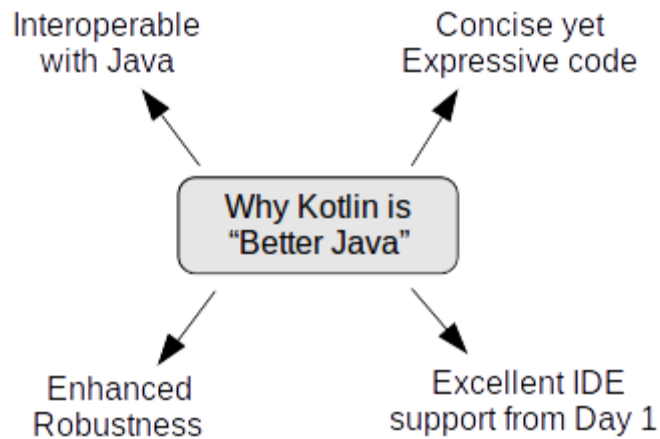
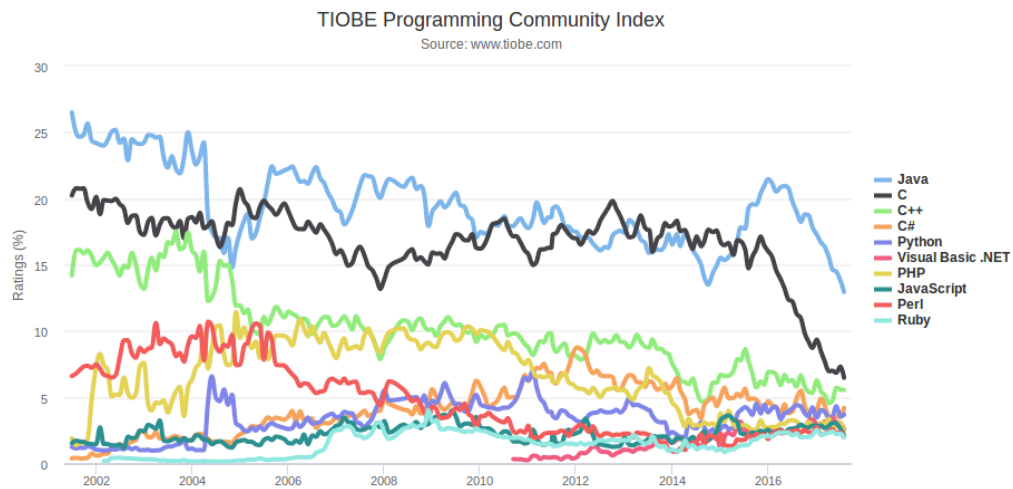
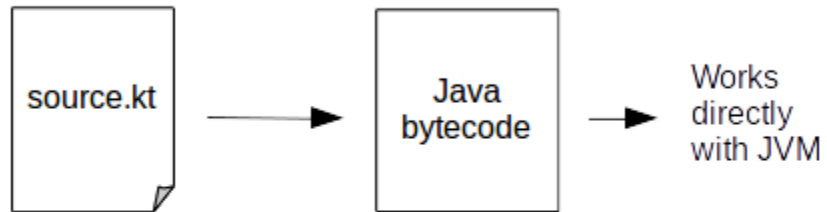


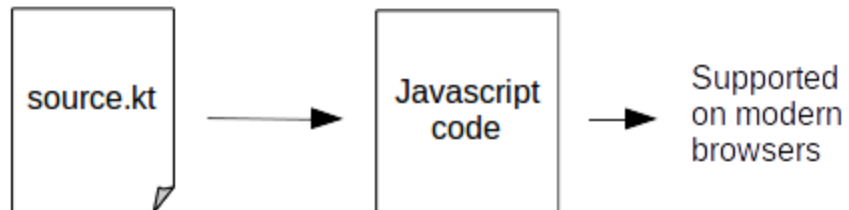
Chapter 1: The Power of Kotlin



On JVM

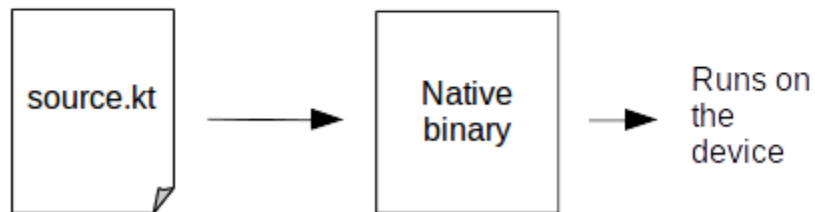


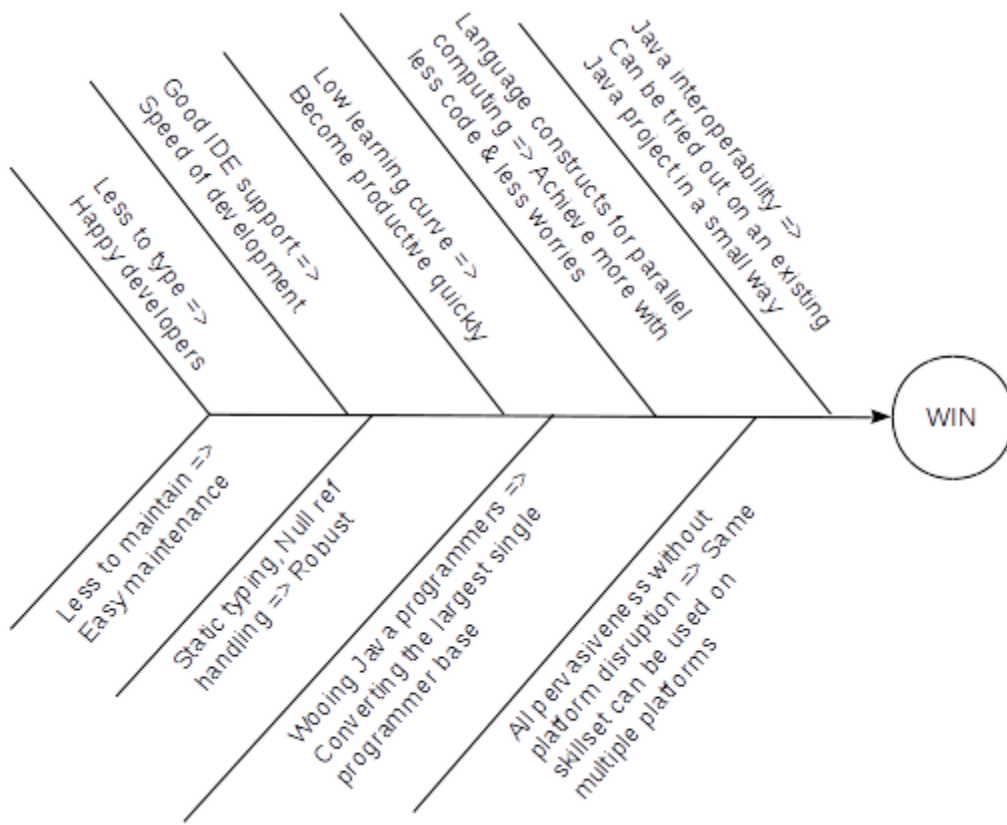
On Browsers



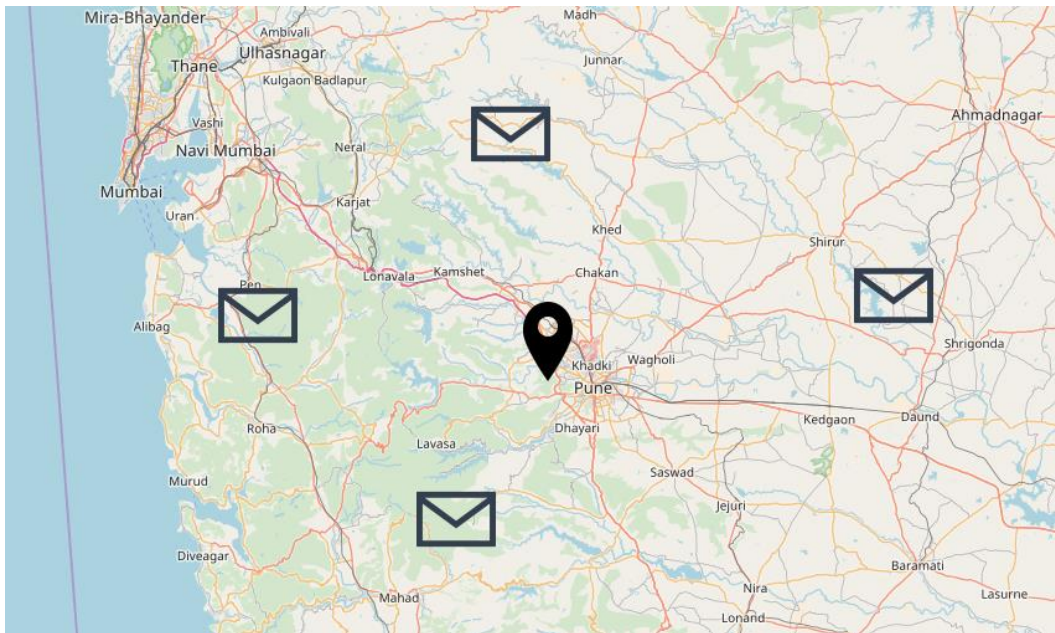
The ability to transpile to Javascript is useful also on other platforms where Javascript is supported.

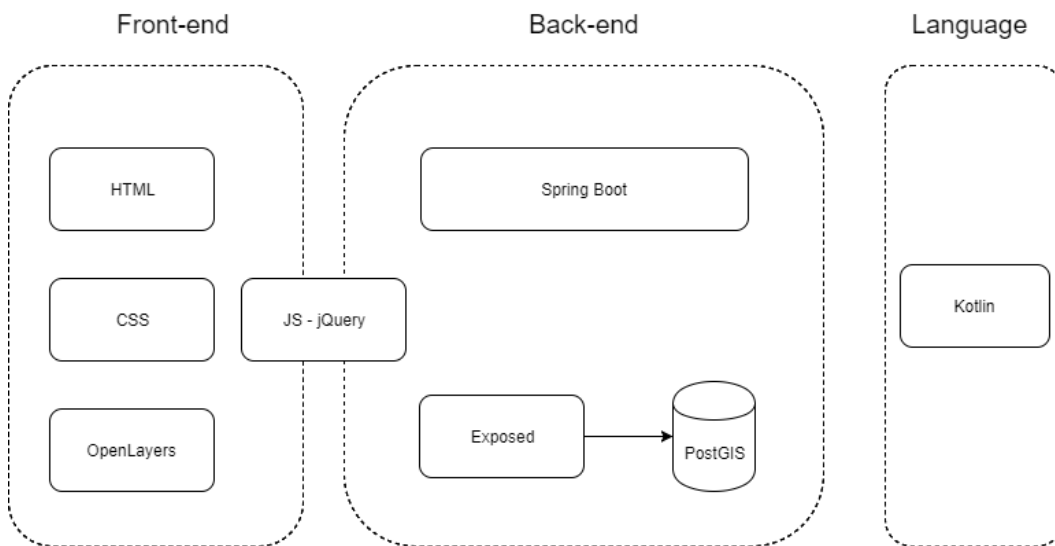
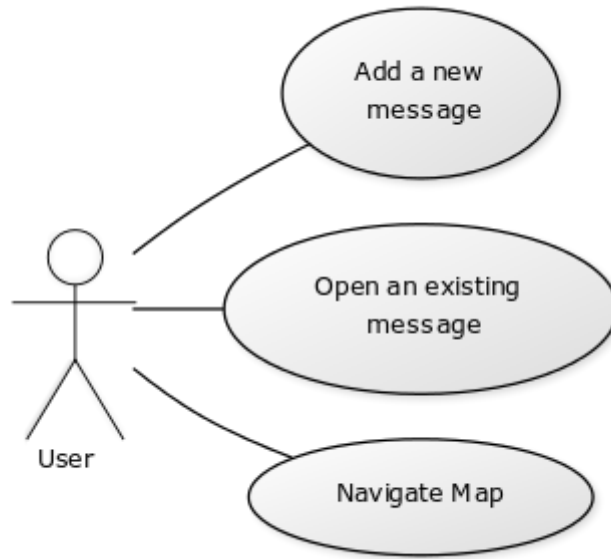
On Leading Devices

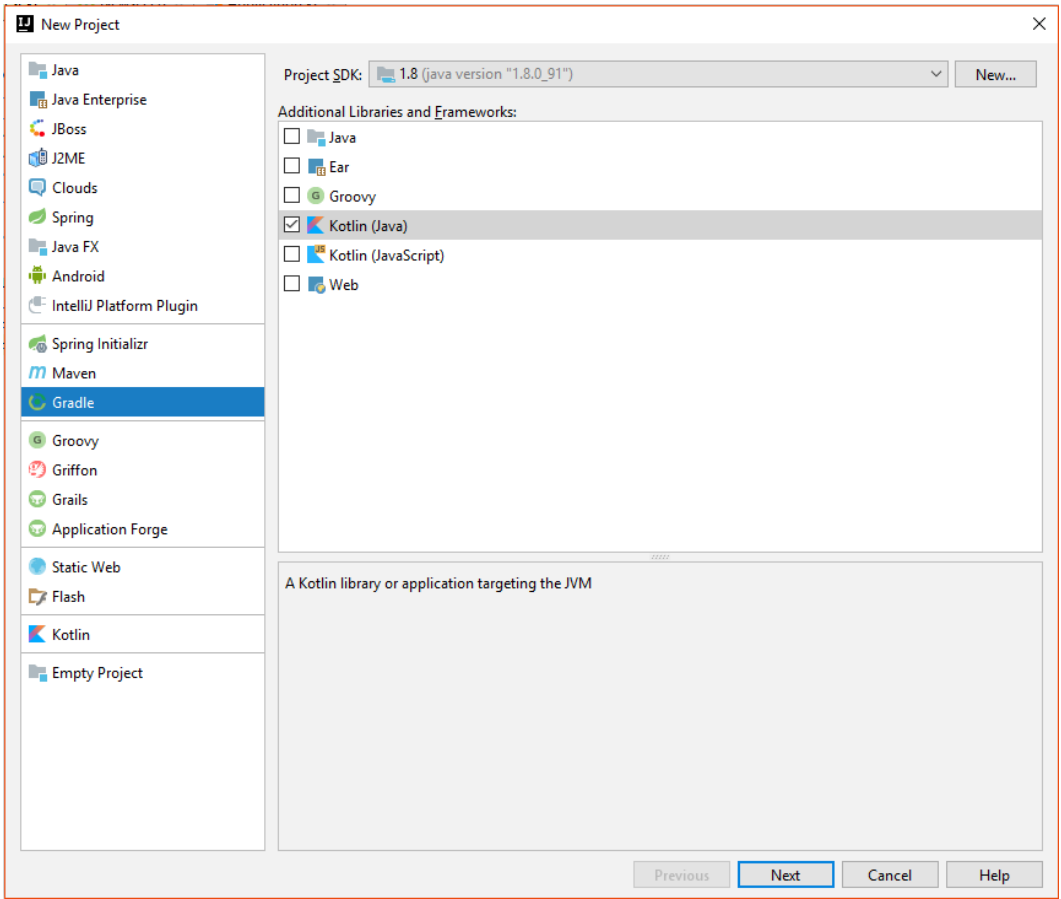


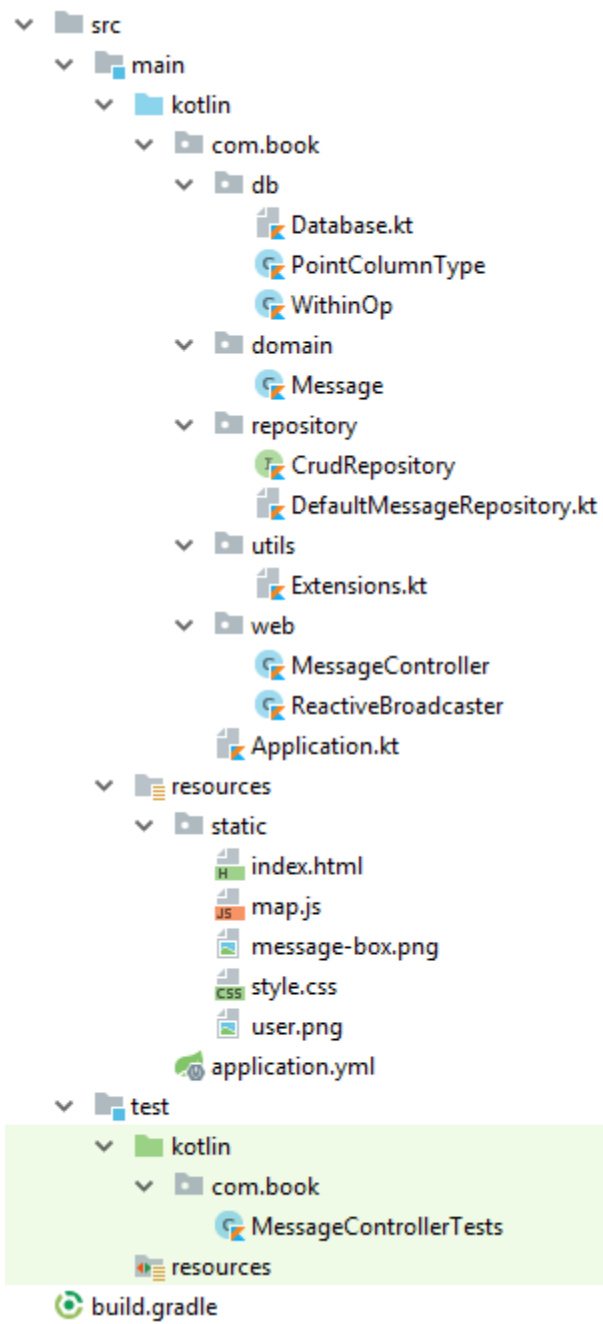


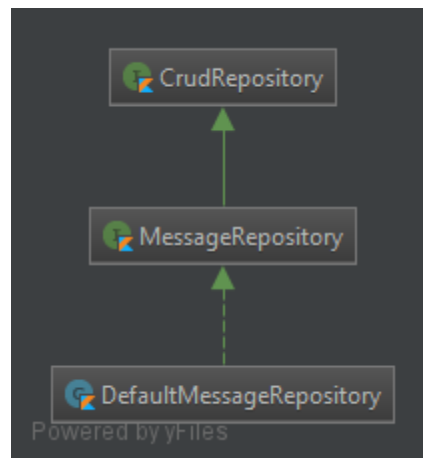
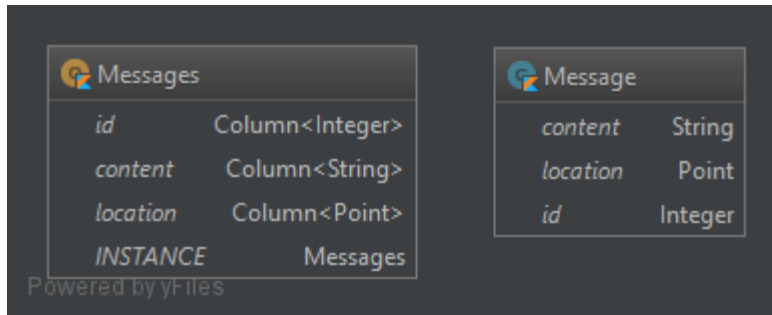
Chapter 2: Geospatial Messenger - Spring Boot



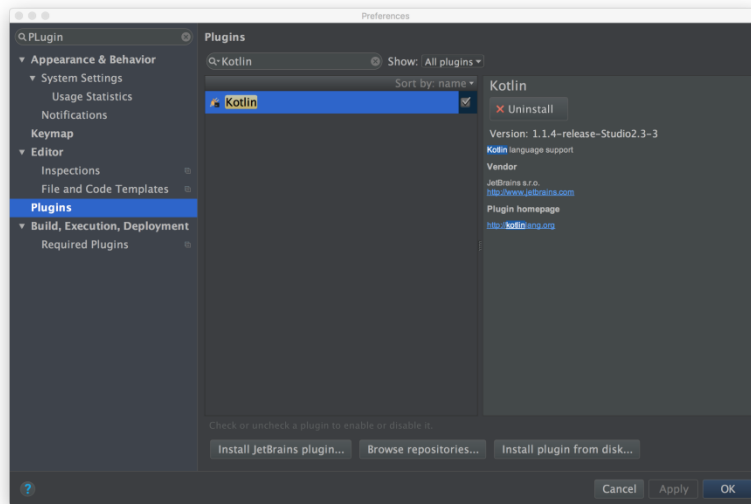








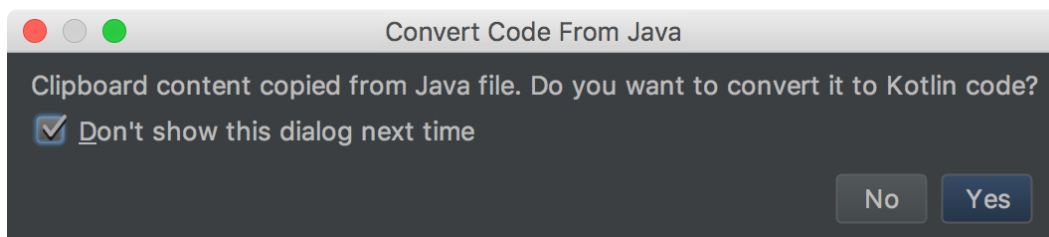
Chapter 3: Social Media Aggregator Android App

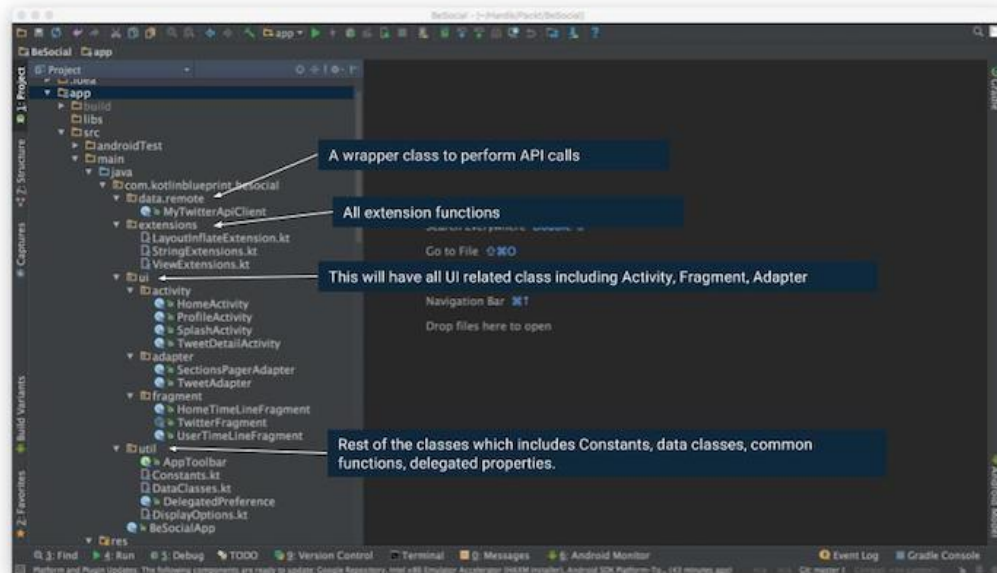
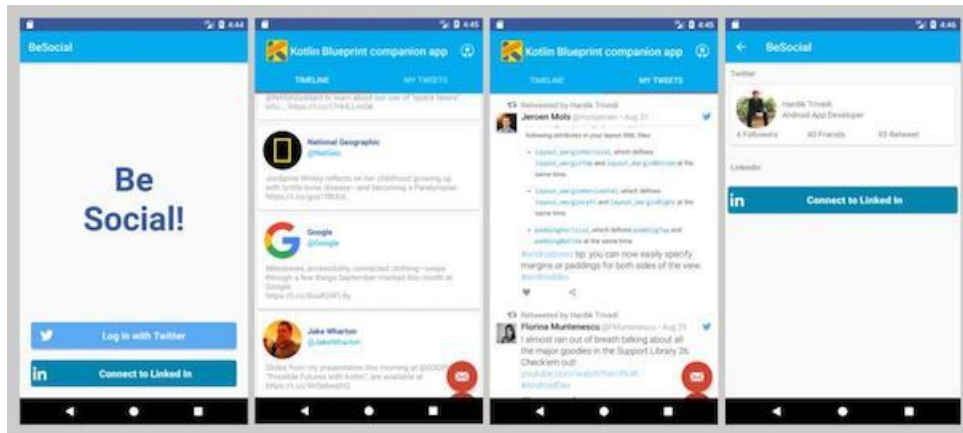


```
1 // Top-level build file where you can add configuration options common to all sub-pr
2
3 buildscript {
4     ext.kotlin_version = '1.1.4-3'
5     ext.anko_version = '0.10.0'
6     repositories {
7         jcenter()
8     }
9     dependencies {
10        classpath 'com.android.tools.build:gradle:2.3.3'
11        classpath "org.jetbrains.kotlin:kotlin-gradle-plugin:$kotlin_version"
12
13        // NOTE: Do not place your application dependencies here; they belong
14        // in the individual module build.gradle files
15    }
16 }
```

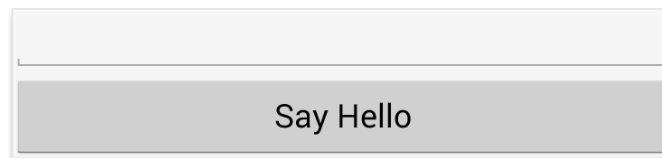
```
apply plugin: 'com.android.application'  
apply plugin: 'kotlin-android'  
apply plugin: 'kotlin-android-extensions'
```

```
compile "org.jetbrains.kotlin:kotlin-stdlib-jre7:$kotlin_version"  
compile "org.jetbrains.anko:anko:$anko_version"
```

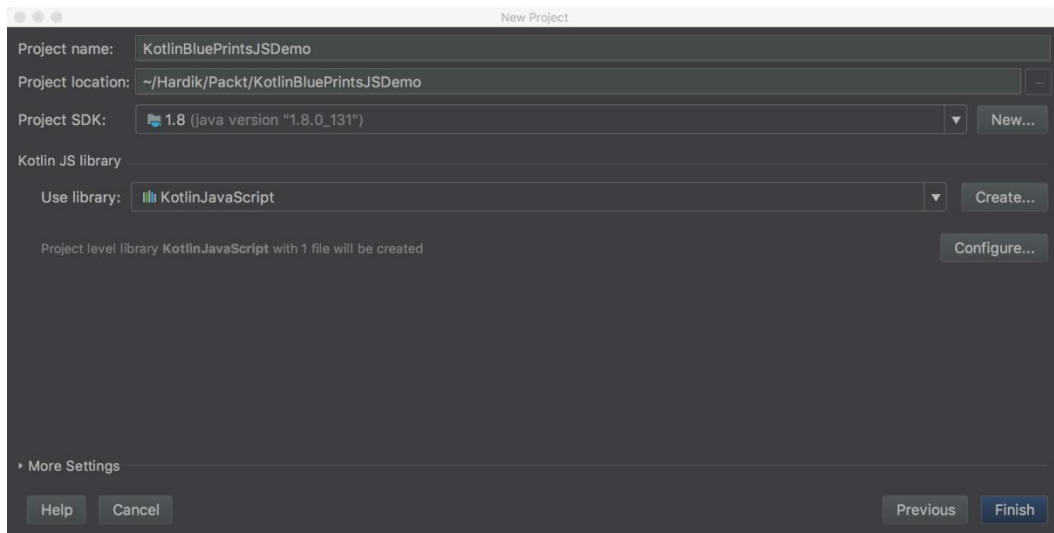
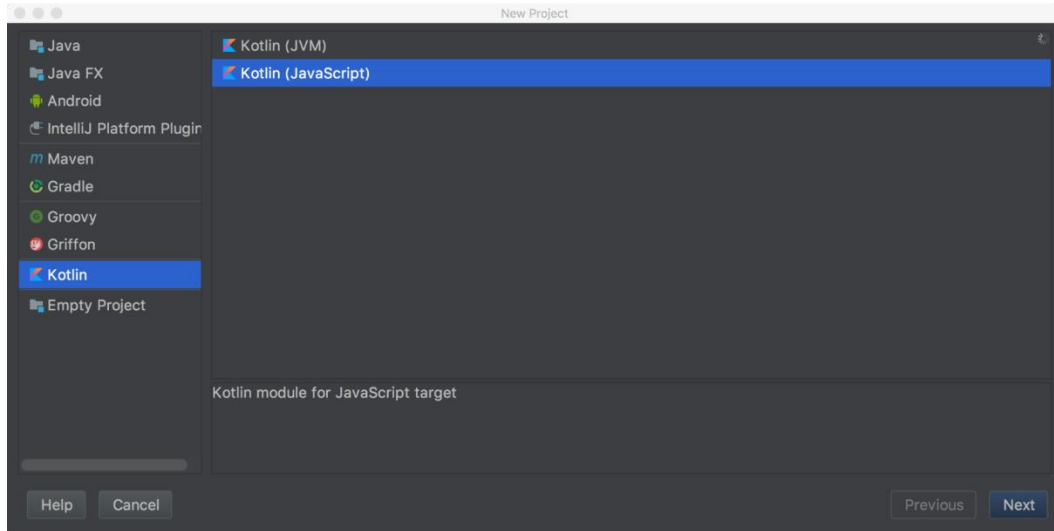




Expression	Translated to
a()	a.invoke()
a(i)	a.invoke(i)
a(i, j)	a.invoke(i, j)
a(i_1, ..., i_n)	a.invoke(i_1, ..., i_n)



Chapter 4: Weather App Using Kotlin for JavaScript



The screenshot shows an IDE window for a project named "KotlinBluePrintsJSDemo". The left sidebar displays the project structure with folders for ".idea", "out", and "src". The "out" folder contains sub-folders for "production" and "lib", with various files like "kotlin.js" and "KotlinBluePrintsJSDemo.js". The "src" folder contains "Main.kt" and "index.html". The main editor area shows the content of "index.html", which is a basic HTML document with a title "Kotlin BluePrints JS Demo" and two script tags. The status bar at the bottom indicates "Tag start is not closed" and "13:8 LF : UTF-8".

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <title>Kotlin BluePrints JS Demo</title>
6 </head>
7 <body>
8
9   <script src="out/production/KotlinBluePrintsJSDemo/lib/kotlin.js"></script>
10  <script src="out/production/KotlinBluePrintsJSDemo/KotlinBluePrintsJSDemo.js"></script>
11
12 </body>
13 </html>
```

The screenshot shows a browser's developer console with the "Console" tab selected. The console displays two log messages from "Kotlin BluePrints". The first message is "Your first JS code using Kotlin" and the second is "Your first JS code using Kotlin". Both messages are linked to "kotlin.js:3755".

Message	Source
Kotlin BluePrints	kotlin.js:3755
Your first JS code using Kotlin	kotlin.js:3755

Kotlin BluePrints JS Demo

localhost:63342/KotlinBluePrints.JSDemo/index.html?_jt=sho3ocf7mv84dfkjqvph9lg2k

Apps SocialMediaAggreg... KotlinBluePrints Mobile Skills Matrix Conferences Glow MyTime People ESS :: Login Referral Portal New People Site Useful Interview

Enter zip code : [Get Weather](#)

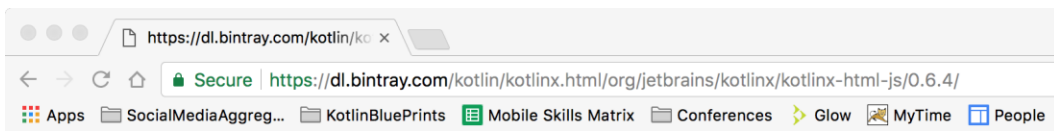
Weather info for Yerandwane, (IN)

Saturday November 4	Sunday November 5	Monday November 6	Tuesday November 7	Wednesday November 8	Thursday November 9	Friday November 10
27 °C	28 °C	28 °C	28 °C	29 °C	29 °C	29 °C
Clear 27 °C / 18 °C	Clear 29 °C / 15 °C	Clear 30 °C / 14 °C	Clear 29 °C / 13 °C	Rain 29 °C / 15 °C	Clear 29 °C / 14 °C	Clear 29 °C / 14 °C

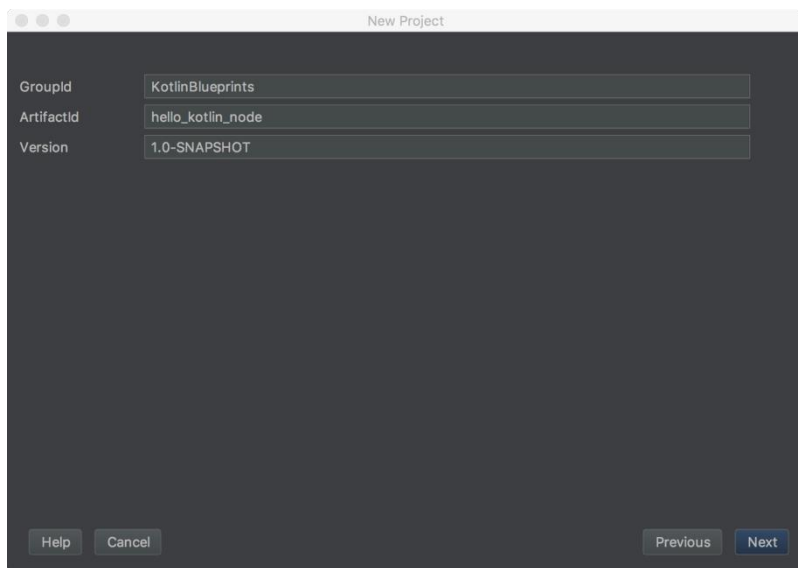
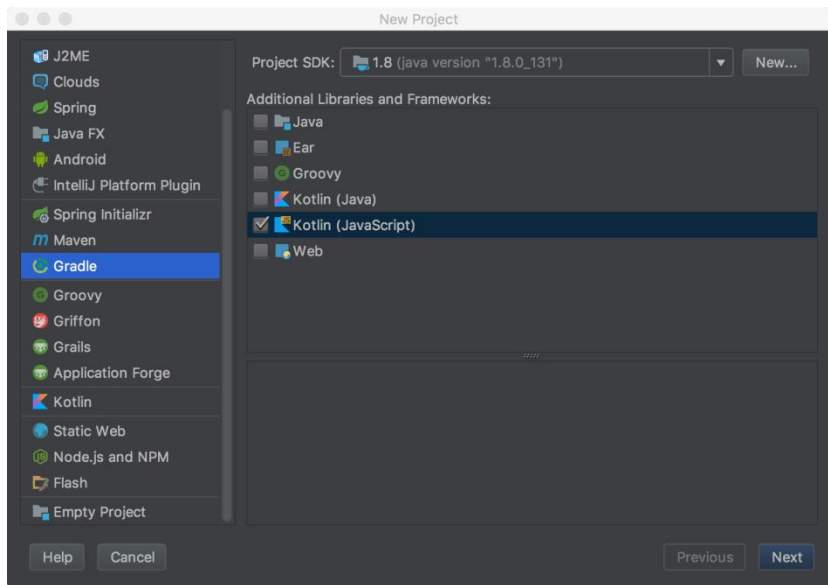
Yerandwane, IN (18.573.8333)
Tuesday, November 7, 2017
Clear, sky is clear

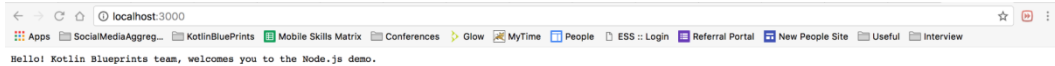
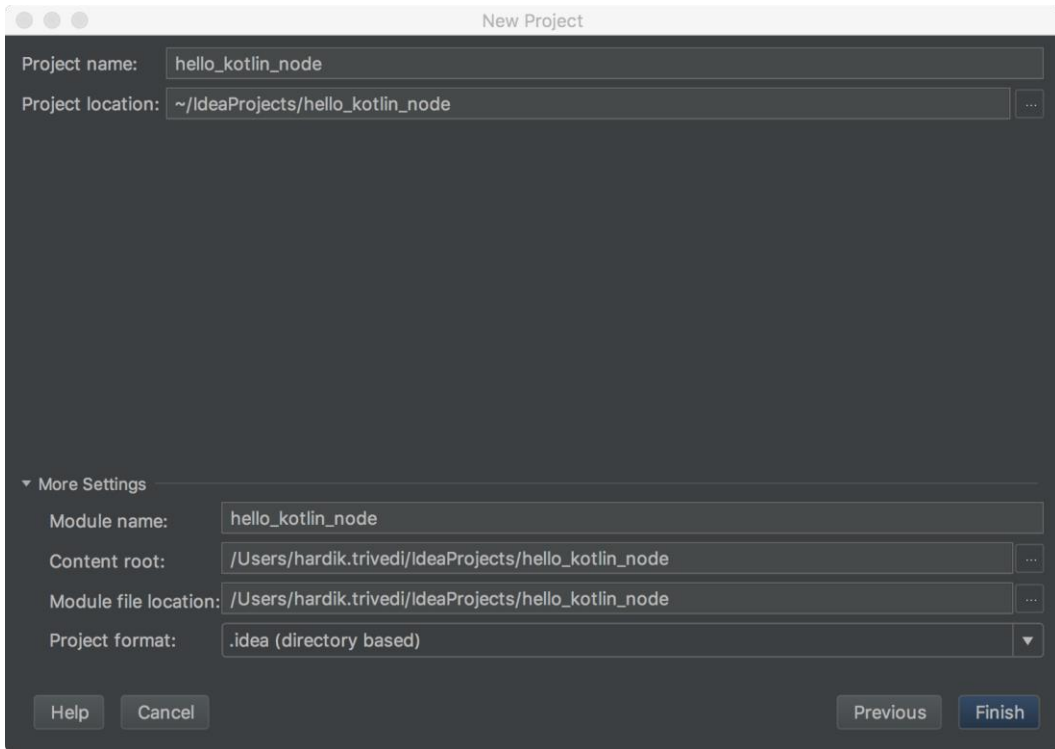
28 °C

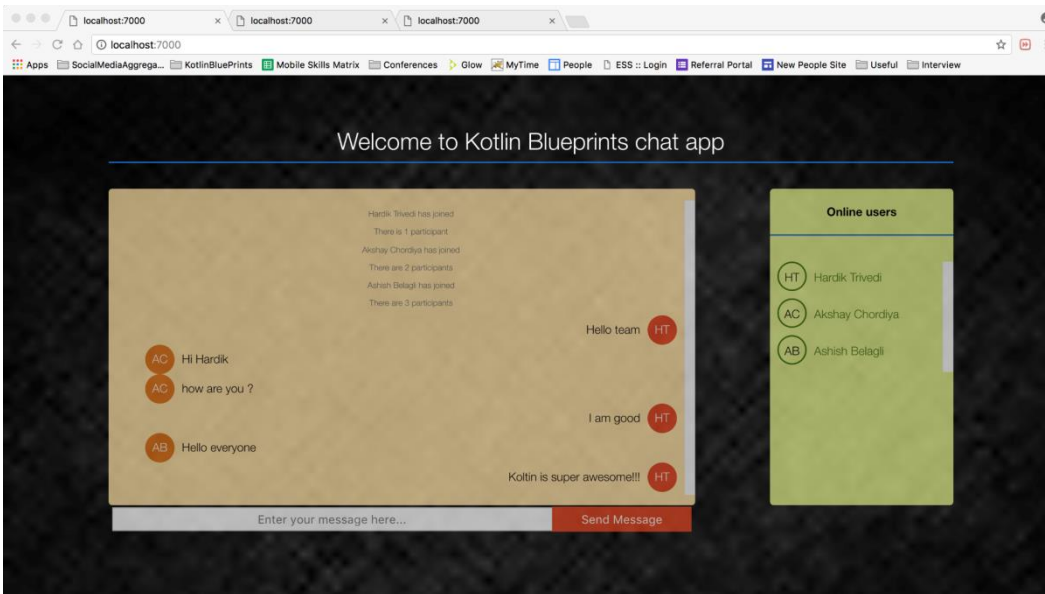
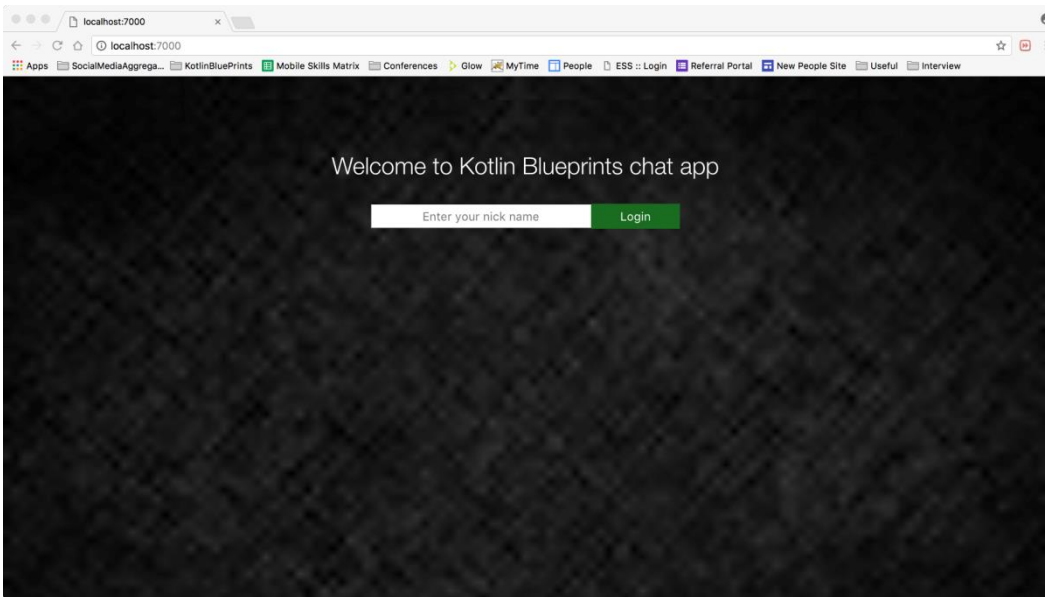
Pressure 950.37 mb
Humidity 43 %
Wind 4.17 mph
Cloudiness 0 %



- [kotlinx-html-js-0.6.4-sources.jar](#)
- [kotlinx-html-js-0.6.4-sources.jar.asc](#)
- [kotlinx-html-js-0.6.4-sources.jar.md5](#)
- [kotlinx-html-js-0.6.4-sources.jar.md5.asc](#)
- [kotlinx-html-js-0.6.4-test-sources.jar](#)
- [kotlinx-html-js-0.6.4-test-sources.jar.asc](#)
- [kotlinx-html-js-0.6.4-test-sources.jar.md5](#)
- [kotlinx-html-js-0.6.4-test-sources.jar.md5.asc](#)
- [kotlinx-html-js-0.6.4.jar](#)
- [kotlinx-html-js-0.6.4.jar.asc](#)
- [kotlinx-html-js-0.6.4.jar.md5](#)
- [kotlinx-html-js-0.6.4.jar.md5.asc](#)
- [kotlinx-html-js-0.6.4.pom](#)
- [kotlinx-html-js-0.6.4.pom.asc](#)
- [kotlinx-html-js-0.6.4.pom.md5](#)
- [kotlinx-html-js-0.6.4.pom.md5.asc](#)







```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <link rel="stylesheet" href="css/styles.css">
5   <!--Let browser know website is optimized for mobile-->
6   <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
7 </head>
8
9 <body>
10 <div id="container" class="mainContainer">
11
12 </div>
13 <script type="text/javascript" src="/socket.io/socket.io.js"></script>
14
15 <script>
16   window.socket = io();
17 </script>
18 <script type="text/javascript" src="lib/kotlin/kotlin.js"></script>
19 <script type="text/javascript" src="lib/kotlin/kotlinx-html-js.js"></script>
20 <script type="text/javascript" src="js/main.js"></script>
21 </body>
22 </html>
23
24
```

```
:webapp:compileKotlin2Js
w: /Users/hardik.trivedi/Hardik/Packt/kotlin_node_chat_app/webapp/src/main/kotlin/views/ChatWindow.kt: (66, 29): Unchecked cast: Any? to Array<String>
w: /Users/hardik.trivedi/Hardik/Packt/kotlin_node_chat_app/webapp/src/main/kotlin/views/ChatWindow.kt: (114, 28): Parameter 'data' is never used
w: /Users/hardik.trivedi/Hardik/Packt/kotlin_node_chat_app/webapp/src/main/kotlin/views/ChatWindow.kt: (119, 17): Variable 'element' is never used
:webapp:processResources NO-SOURCE
:webapp:classes
:webapp:jar
:webapp:assemble
:webapp:compileTestJava NO-SOURCE
:webapp:compileTestKotlin2Js NO-SOURCE
:webapp:processTestResources NO-SOURCE
:webapp:testClasses UP-TO-DATE
:webapp:test NO-SOURCE
:webapp:check UP-TO-DATE
:webapp:build

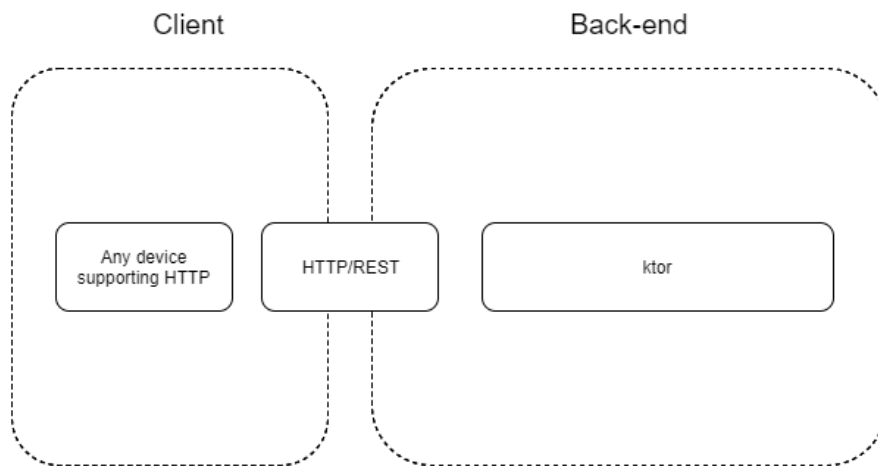
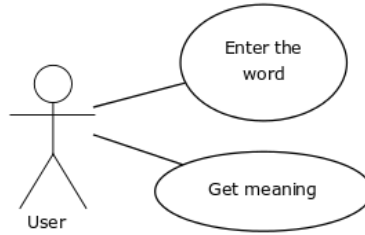
BUILD SUCCESSFUL

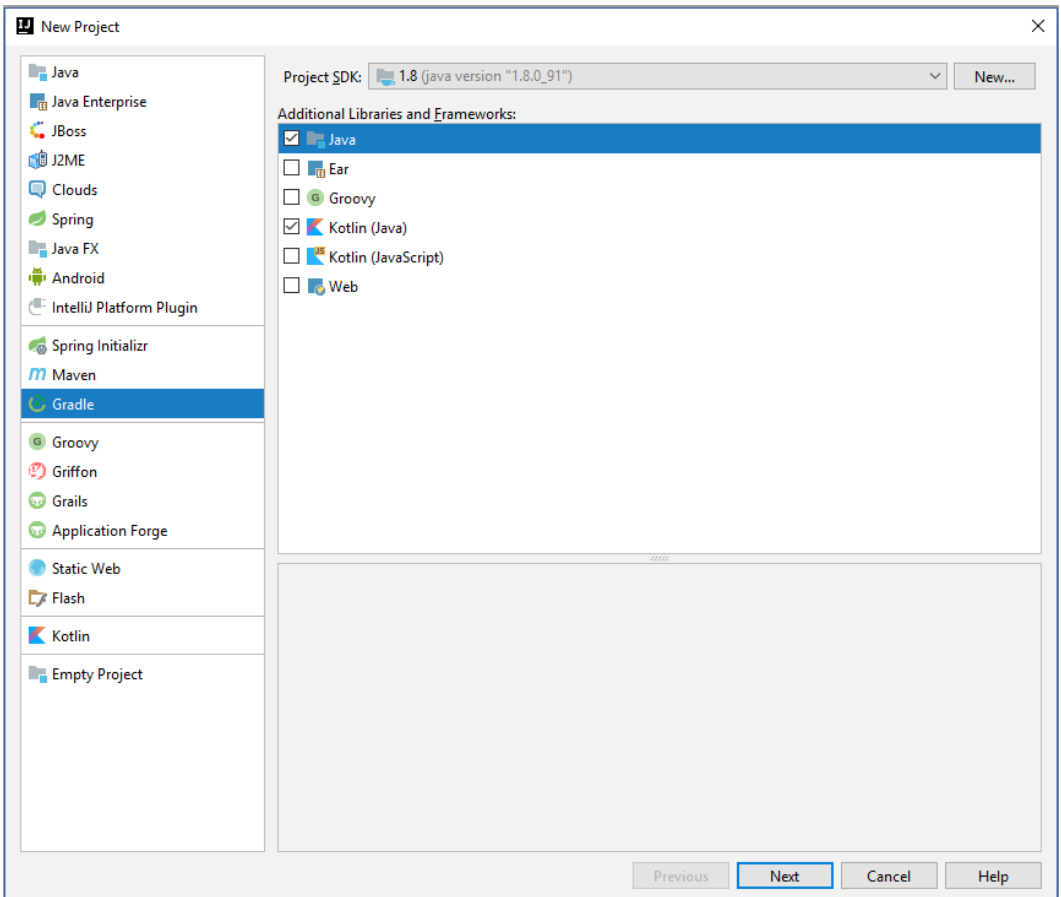
Total time: 9.687 secs
IN-IT0340:kotlin_node_chat_app hardik.trivedi$ npm start

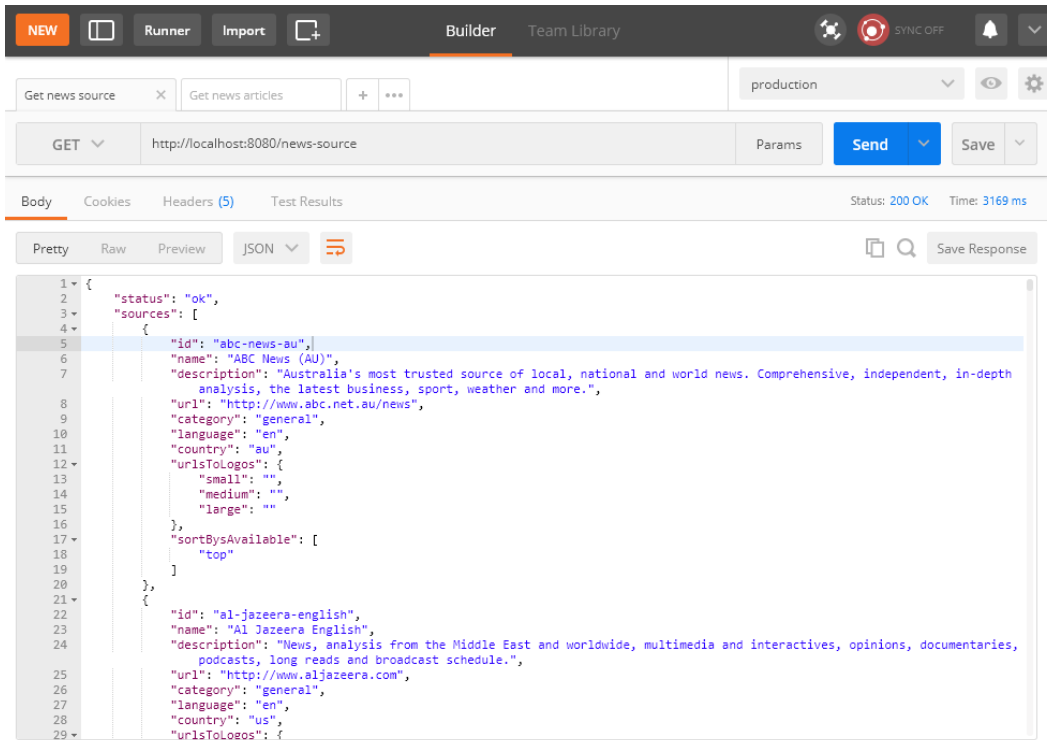
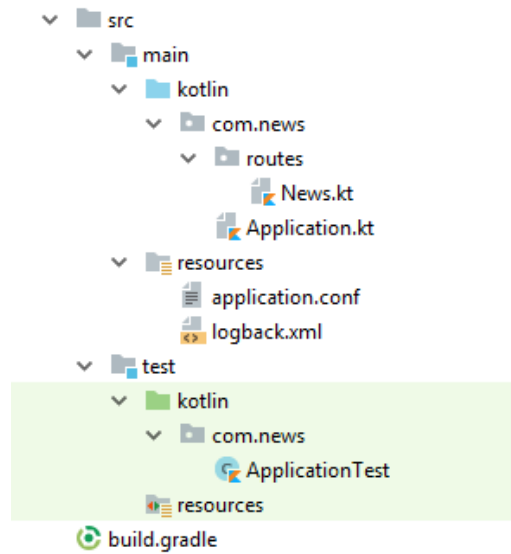
> kotlin_node_chat_app@1.0.0 start /Users/hardik.trivedi/Hardik/Packt/kotlin_node_chat_app
> node backend/server/app.js

Server Starting!
Chat app listening on port http://localhost:7000
```

Chapter 6: News Feed – REST API







NEW Runner Import Builder Team Library SYNC OFF

Get news source Get news articles x + ... production

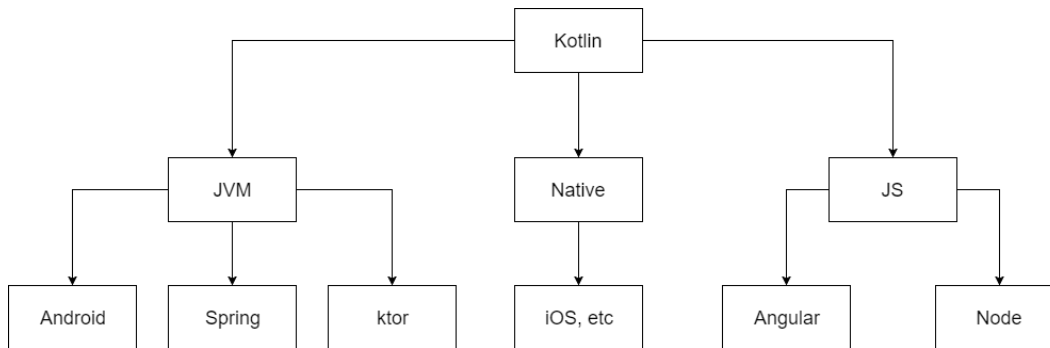
GET http://localhost:8080/news/techcrunch Params Send Save

Body Cookies Headers (5) Test Results Status: 200 OK Time: 238 ms

Pretty Raw Preview JSON Save Response

```
1 {
2   "status": "ok",
3   "source": "techcrunch",
4   "sortBy": "top",
5   "articles": [
6     {
7       "author": "Lucas Matney",
8       "title": "Google introduces Neural Networks API in developer preview of Android 8.1",
9       "description": "Google is starting to seed to devs a new developer beta (8.1) of Android Oreo. The big highlight here is the new Neural Networks API, which brings..",
10      "url": "https://techcrunch.com/2017/10/25/google-introduces-neural-networks-api-in-developer-preview-of-android-8-1/",
11      "urlToImage": "https://tctechcrunch2011.files.wordpress.com/2017/08/oreo-android-multiple.png",
12      "publishedAt": "2017-10-25T21:36:58Z"
13    },
14    {
15      "author": "Jason Rowley",
16      "title": "Where venture capital has peaked",
17      "description": "\"Peak startup\" is a phrase that no doubt strikes terror in the hearts of entrepreneurs and startup investors alike. But saying \"peak startup\" is not..",
18      "url": "https://techcrunch.com/2017/10/25/where-venture-capital-has-peaked/",
19      "urlToImage": "https://tctechcrunch2011.files.wordpress.com/2017/10/us-report_tc-1.png",
20      "publishedAt": "2017-10-25T18:00:54Z"
21    },
22    {
23      "author": "Jonathan Shieber",
24      "title": "Uber introduces a credit card",
25      "description": "Uber is getting into the credit card business. Announced today in partnership with Barclays and Visa at the Money2020 conference in Las Vegas, the new card..",
26      "url": "https://techcrunch.com/2017/10/25/uber-launches-a-credit-card/",
27      "urlToImage": "https://tctechcrunch2011.files.wordpress.com/2017/10/card-only-photo.jpg",
28      "publishedAt": "2017-10-25T17:30:29Z"
29    }
30  ]
31 }
```


Chapter 7: CSV Reader in Kotlin Native




```
C:\Windows\system32\cmd.exe

C:\Users\Akshay>kotlinc -version
info: kotlinc-native 1.2.0-rc-39 (JRE 1.8.0_91-b15)
error: you have not specified any compilation arguments. No output has been produced.


C:\Users\Akshay>
```

 MINGW64:/j/Work/Kotlin-Native





```
Akshay@coderus MINGW64 /j/Work/Kotlin-Native
$ kotlinc hello.kt -o hello
```


 MINGW64:/j/Work/Kotlin-Native

```
Akshay@coderus MINGW64 /j/Work/Kotlin-Native
$ ./hello
Hello World!
```

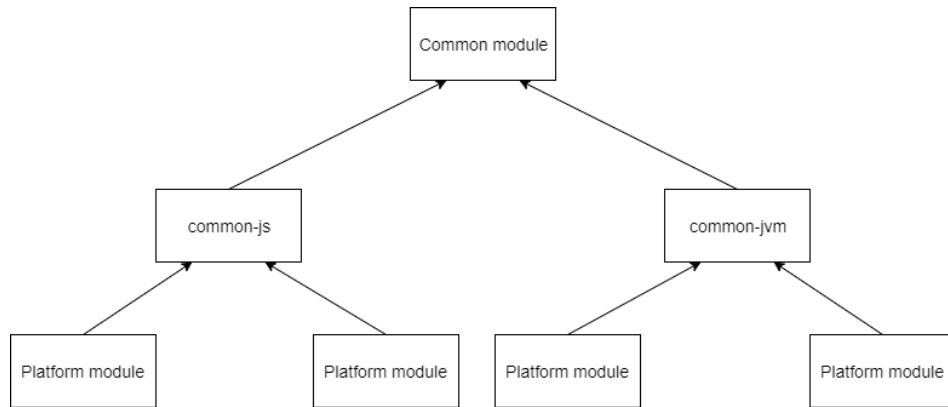
 MINGW64:/j/Work/Kotlin-Native/csv

```
Akshay@coderus MINGW64 /j/Work/Kotlin-Native/csv
$ kotlinc CSV.kt -o CSV
```

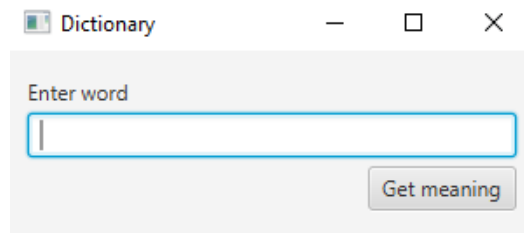
 books.csv	20/11/2017 12:02	CSV File	1 KB
 CSV.exe	20/11/2017 11:47	Application	2,599 KB
 CSV.kt	20/11/2017 10:57	KT File	2 KB
 CSV.kt.bc	20/11/2017 11:47	BC File	10 KB

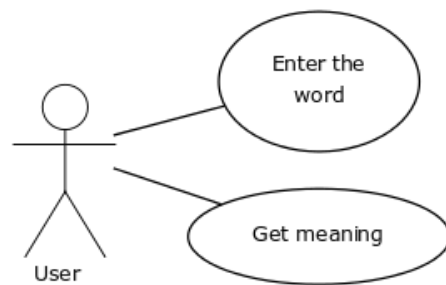
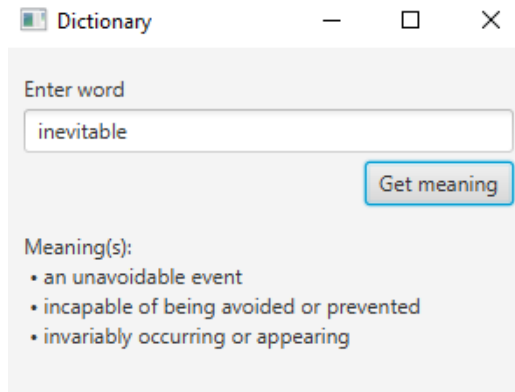
 MINGW64:/j/Work/Kotlin-Native/csv

```
Akshay@coderus MINGW64 /j/Work/Kotlin-Native/csv
$ ./CSV.exe books.csv 1
Coming soon -> 1
Published -> 4
```



Chapter 8: Dictionary Desktop Application - TornadoFX





Browse Repositories [X]

Search: TornadoFX [X] [Refresh] Category: All [v]

Sort by: name [v]

TornadoFX	10,631	★★★★★
UI		3 weeks ago

TornadoFX

★★★★★ 10631 downloads

Updated 02/11/2017 v1.7.12

[TornadoFX](#) support

Change Notes

1.7.12 2017-11-1

- [TornadoFX 1.7.12](#)
- CSS Color Annotator improvements

1.7.9 2017-08-04

- [TornadoFX 1.7.9](#)
- Star imports are configured on Facet init instead of in Preloader
- Framework detector is much faster

1.7.8 - 2017-06-26

- [TornadoFX 1.7.8](#)
- More improvements to "Generate ViewModel"

1.7.7.1 - 2017-06-23

- Generate ViewModel uses new binding syntax

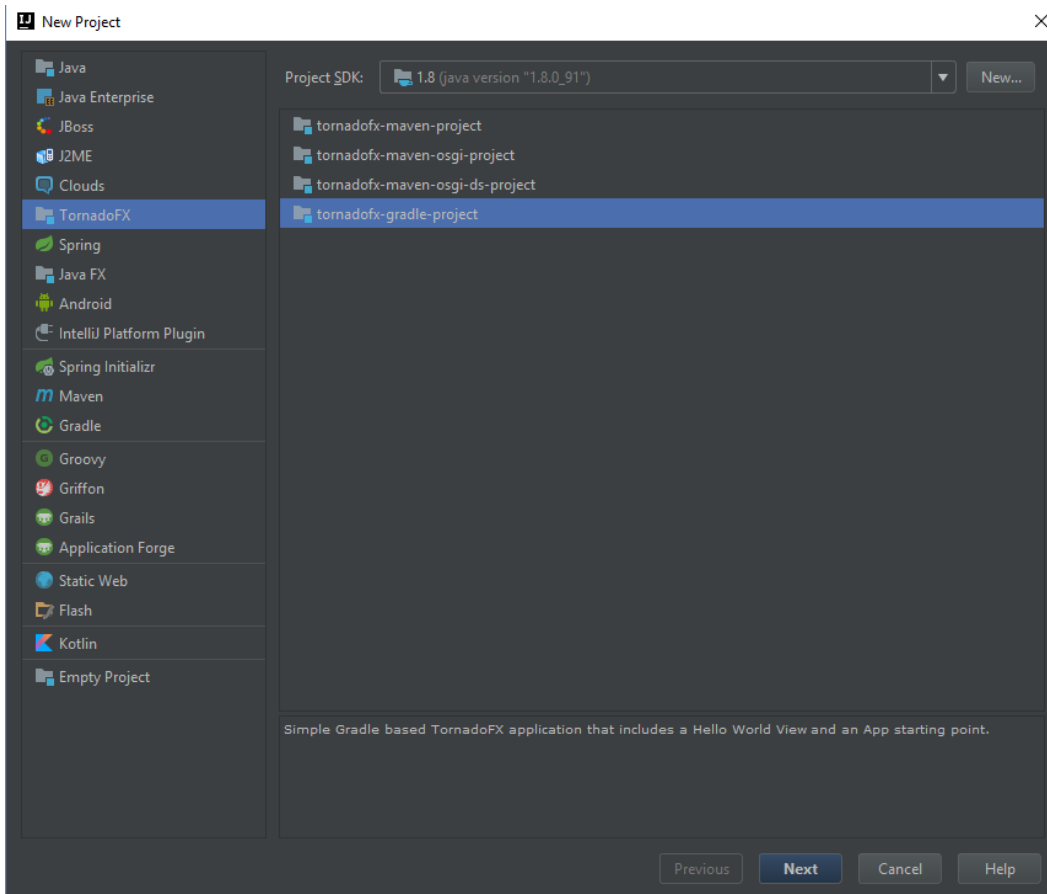
1.7.7 - 2017-06-17

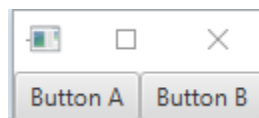
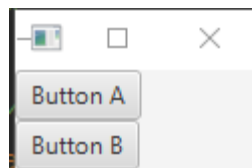
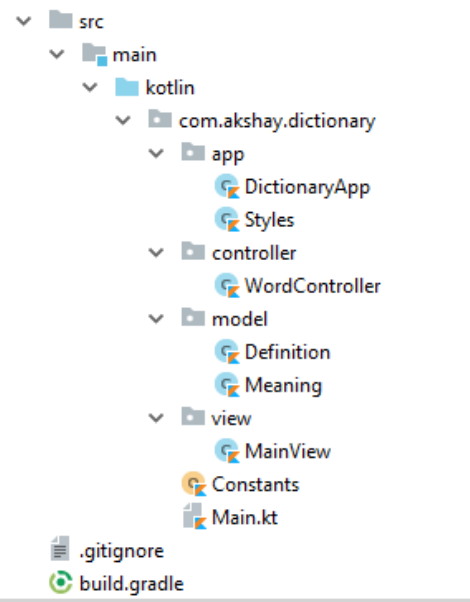
- [TornadoFX 1.7.7](#)
- Updated Project Templates
- Simplification intentions for type safe CSS

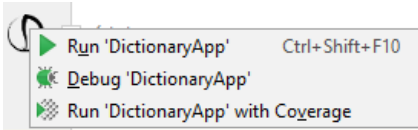
1.7.6 - 2017-06-13

- [TornadoFX 1.7.6](#)
- [TornadoFX](#) Facet must be installed in project so we no longer

HTTP Proxy Settings... Manage repositories... [Close]







the application

```
class DictionaryApp : App(MainView::class, Styles::class)
```