

# **Generate Project Starter**

## Project Metadata

Artifact coordinates

**Group**

no.noroff

**Artifact**

SpringBootExample

**Name**

SpringBootExample

**Description**

Spring Boot Example

**Package Name**

no.noroff.SpringBootExample

**Packaging**

Jar

**Java Version**

8

o many options? [Switch back to the simple version.](#)

## Dependencies

Add Spring Boot Starters and dependencies to your application

**Search for dependencies**

Web, Security, JPA, Actuator, Devtools...

**Selected Dependencies**

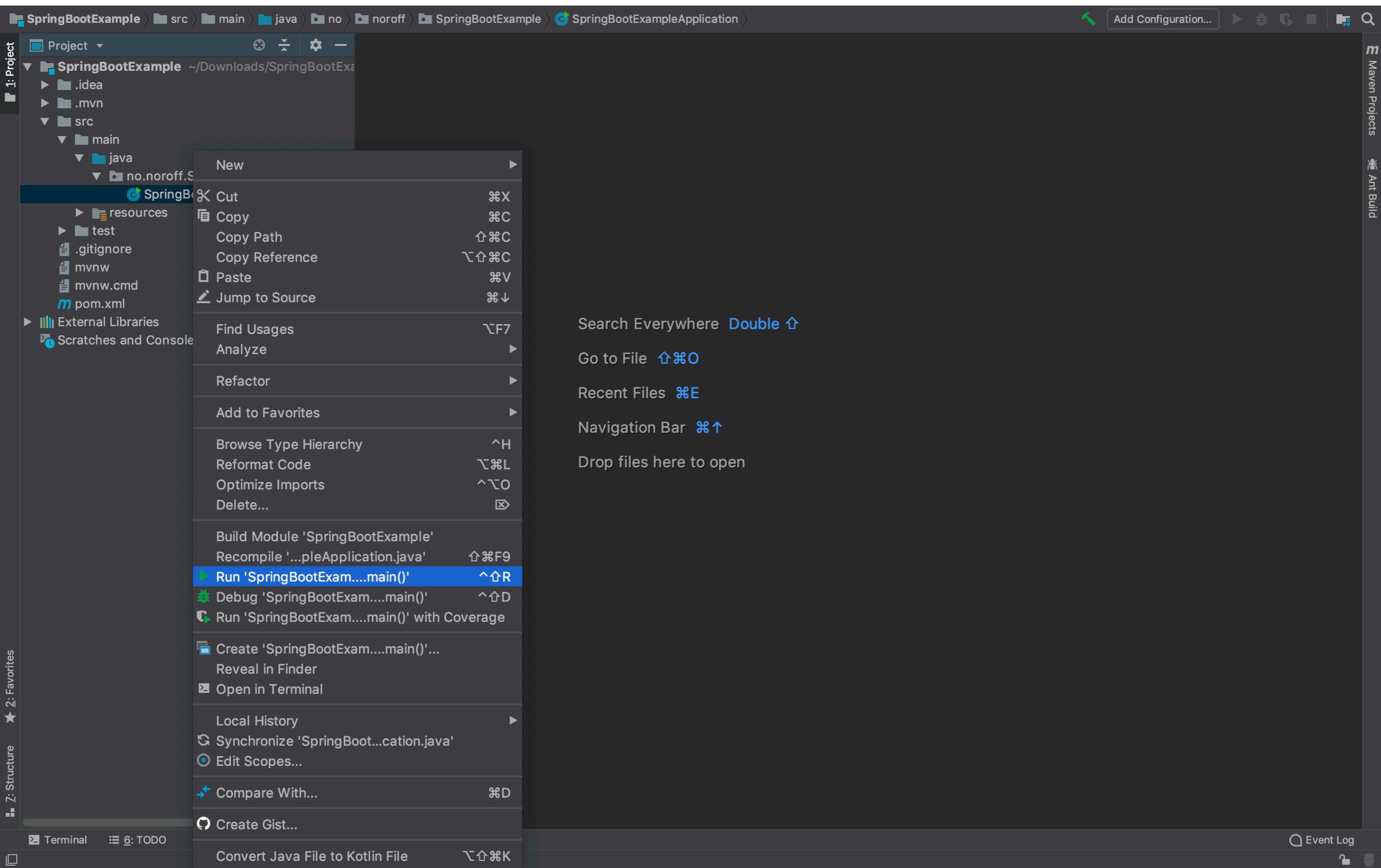
Web X

DevTools X

Thymeleaf X

Generate Project ⌘ + ↵

**Import Into IntelliJ**  
**Run main()**



# **Spring Runs**

SpringBootExample src main java no noroff SpringBootExample SpringBootExampleApplication

Project 1: Project

SpringBootExample ~/Downloads/SpringBootE .idea .mvn src main java no.noroff.SpringBootExample SpringBootExampleApplication resources test target

Run: SpringBootExampleApplication

/Library/Java/JavaVirtualMachines/jdk1.8.0\_191.jdk/Contents/Home/bin/java ...

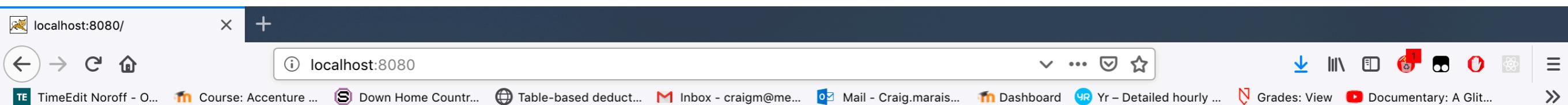
Spring Boot (v2.1.1.RELEASE)

```
2018-12-19 07:54:16.281 INFO 56518 --- [ restartedMain] n.n.S.SpringBootExampleApplication      : Starting SpringBootExampleApplication on Tessier.local with PID 56518 (/Users/craig/Dow
2018-12-19 07:54:16.284 INFO 56518 --- [ restartedMain] n.n.S.SpringBootExampleApplication      : No active profile set, falling back to default profiles: default
2018-12-19 07:54:16.342 INFO 56518 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-properties' to 'false' to d
2018-12-19 07:54:16.342 INFO 56518 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to
2018-12-19 07:54:17.386 INFO 56518 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2018-12-19 07:54:17.418 INFO 56518 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2018-12-19 07:54:17.419 INFO 56518 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/9.0.13
2018-12-19 07:54:17.432 INFO 56518 --- [ restartedMain] o.a.catalina.core.AprLifecycleListener : The APR based Apache Tomcat Native library which allows optimal performance in producti
2018-12-19 07:54:17.526 INFO 56518 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplicationContext
2018-12-19 07:54:17.526 INFO 56518 --- [ restartedMain] o.s.web.context.ContextLoader        : Root WebApplicationContext: initialization completed in 1184 ms
2018-12-19 07:54:17.705 INFO 56518 --- [ restartedMain] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2018-12-19 07:54:17.846 WARN 56518 --- [ restartedMain] ion$DefaultTemplateResolverConfiguration : Cannot find template location: classpath:/templates/ (please add some templates or chec
2018-12-19 07:54:17.926 INFO 56518 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer     : LiveReload server is running on port 35729
2018-12-19 07:54:17.983 INFO 56518 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2018-12-19 07:54:17.987 INFO 56518 --- [ restartedMain] n.n.S.SpringBootExampleApplication      : Started SpringBootExampleApplication in 2.198 seconds (JVM running for 2.656)
```

Terminal 0: Messages 4: Run 6: TODO Event Log

Compilation completed successfully in 1 s 897 ms (moments ago) 26:1

**Localhost:8080**



# Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Wed Dec 19 07:54:36 CET 2018

There was an unexpected error (type=Not Found, status=404).

No message available

**Add greeting  
controller**

The screenshot shows the IntelliJ IDEA interface with a Spring Boot application named "SpringBootExample".

**Project View:** The left sidebar shows the project structure under "1: Project". The "src" directory contains "main" and "java" packages. "main" contains "no.noroff.SpringBootExample" which includes "GreetingController" and "SpringBootExampleApplication". "java" also contains "GreetingController.java". "resources" and "test" directories are also present.

**GreetingController.java Content:**

```
1 package no.noroff.SpringBootExample;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6 import org.springframework.web.bind.annotation.RequestParam;
7
8 @Controller
9 public class GreetingController {
10
11     @GetMapping("/greeting")
12     public String greeting(@RequestParam(name="name", required=false, defaultValue="World") String name, Model model) {
13         model.addAttribute("name", name);
14         return "greeting";
15     }
16
17 }
18 }
```

**Run Log:** The bottom panel shows the "Run" tab with the "SpringBootExampleApplication" configuration selected. The log output is as follows:

```
2018-12-19 07:54:16.342 INFO 56518 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to DEBUG
2018-12-19 07:54:17.386 INFO 56518 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2018-12-19 07:54:17.418 INFO 56518 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2018-12-19 07:54:17.419 INFO 56518 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/9.0.13
2018-12-19 07:54:17.432 INFO 56518 --- [ restartedMain] o.a.catalina.core.AprLifecycleListener : The APR based Apache Tomcat Native library which allows optimal performance in production environments was not found on the java.library.path: [/usr/lib, /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.212-b10-0ubuntu0.18.04.1-amd64, /usr/lib/x86_64-linux-gnu]
2018-12-19 07:54:17.526 INFO 56518 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2018-12-19 07:54:17.526 INFO 56518 --- [ restartedMain] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 1184 ms
2018-12-19 07:54:17.705 INFO 56518 --- [ restartedMain] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2018-12-19 07:54:17.846 WARN 56518 --- [ restartedMain] ion$DefaultTemplateResolverConfiguration : Cannot find template location: classpath:/templates/ (please add some templates or check your Thymeleaf configuration)
2018-12-19 07:54:17.926 INFO 56518 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2018-12-19 07:54:17.983 INFO 56518 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2018-12-19 07:54:17.987 INFO 56518 --- [ restartedMain] n.n.S.SpringBootExampleApplication : Started SpringBootExampleApplication in 2.198 seconds (JVM running for 2.656)
```

**Bottom Status Bar:** The status bar shows "No occurrences found", "Terminal", "Messages", "Run", "TODO", "Event Log", and system information like "18:1 LF UTF-8".

Add greeting  
template

The screenshot shows the IntelliJ IDEA interface with a Spring Boot project named "SpringBootExample".

**Project View:** The left sidebar shows the project structure under "1: Project". It includes the ".idea" folder, ".mvn", "src" (containing "main" with "java" and "resources" subfolders), "test", "target" (with build files like ".gitignore", "mvnw", "mvnw.cmd", "pom.xml", and "SpringBootExample.iml"), "External Libraries", and "Scratches and Consoles".

**Code Editor:** The main editor window displays two files: "GreetingController.java" and "greeting.html".

**GreetingController.java:**

```
package no.noroff.SpringBootExample;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
import java.util.Map;

@RestController
public class GreetingController {
    @GetMapping("/greet")
    public String greet(Map<String, Object> model) {
        model.put("name", "World");
        return "Hello, ${name}!";
    }
}
```

**greeting.html:**

```
<!DOCTYPE HTML>
<html xmlns:th="http://www.thymeleaf.org">
<head>
    <title>Getting Started: Serving Web Content</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
</head>
<body>
    <p th:text="'Hello, ' + ${name} + '!'></p>
</body>
</html>
```

**Run Tab:** The bottom tab bar shows the "Run" tab selected, displaying logs for "SpringBootExampleApplication".

**Log Output:**

```
2018-12-19 07:54:16.342  INFO 56518 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to DEBUG
2018-12-19 07:54:17.386  INFO 56518 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2018-12-19 07:54:17.418  INFO 56518 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2018-12-19 07:54:17.419  INFO 56518 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/9.0.13
2018-12-19 07:54:17.432  INFO 56518 --- [ restartedMain] o.a.catalina.core.AprLifecycleListener : The APR based Apache Tomcat Native library which allows optimal performance in production environments was not found on the java.library.path: [/usr/lib64/libc.so.6, /usr/lib64/libgcc_s.so.1, /usr/lib64/libstdc++.so.6, /usr/lib64/libc.so.6]
2018-12-19 07:54:17.526  INFO 56518 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2018-12-19 07:54:17.526  INFO 56518 --- [ restartedMain] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 1184 ms
2018-12-19 07:54:17.705  INFO 56518 --- [ restartedMain] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2018-12-19 07:54:17.846  WARN 56518 --- [ restartedMain] ion$DefaultTemplateResolverConfiguration : Cannot find template location: classpath:/templates/ (please add some templates or check your Thymeleaf configuration)
2018-12-19 07:54:17.926  INFO 56518 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2018-12-19 07:54:17.983  INFO 56518 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2018-12-19 07:54:17.987  INFO 56518 --- [ restartedMain] n.n.S.SpringBootExampleApplication : Started SpringBootExampleApplication in 2.198 seconds (JVM running for 2.656)
```

**Bottom Status Bar:** The status bar indicates "Compilation completed successfully in 1 s 897 ms (5 minutes ago)" and shows the current time as "10:8".

**Main entry point  
(nothing to do here)**

The screenshot shows the IntelliJ IDEA interface with a Spring Boot project named "SpringBootExample".

**Project Structure:**

- Project: SpringBootExample (~/Downloads/SpringBootExample)
- src:
  - main:
    - java:
      - no.noroff.SpringBootExample
        - GreetingController
        - SpringBootExampleApplication
    - resources
      - static
      - templates
      - application.properties
  - test
  - target
    - .gitignore
    - mvnw
    - mvnw.cmd
    - pom.xml
    - SpringBootExample.iml

**Code Editor:**

```
1 package no.noroff.SpringBootExample;
2
3 import ...
4
5
6 @SpringBootApplication
7 public class SpringBootExampleApplication {
8
9     public static void main(String[] args) { SpringApplication.run(SpringBootExampleApplication.class, args); }
10
11 }
12
13
14
15
```

**Terminal:**

```
2018-12-19 07:54:16.342  INFO 56518 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to DEBUG
2018-12-19 07:54:17.386  INFO 56518 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2018-12-19 07:54:17.418  INFO 56518 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2018-12-19 07:54:17.419  INFO 56518 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/9.0.13
2018-12-19 07:54:17.432  INFO 56518 --- [ restartedMain] o.a.catalina.core.AprLifecycleListener : The APR based Apache Tomcat Native library which allows optimal performance in production environments was not found on the java.library.path: [/usr/lib64, /usr/lib, /lib64, /lib, /usr/lib/x86_64-linux-gnu]
2018-12-19 07:54:17.526  INFO 56518 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2018-12-19 07:54:17.526  INFO 56518 --- [ restartedMain] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 1184 ms
2018-12-19 07:54:17.705  INFO 56518 --- [ restartedMain] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2018-12-19 07:54:17.846  WARN 56518 --- [ restartedMain] ion$DefaultTemplateResolverConfiguration : Cannot find template location: classpath:/templates/ (please add some templates or check your Thymeleaf configuration)
2018-12-19 07:54:17.926  INFO 56518 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2018-12-19 07:54:17.983  INFO 56518 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2018-12-19 07:54:17.987  INFO 56518 --- [ restartedMain] n.n.S.SpringBootExampleApplication : Started SpringBootExampleApplication in 2.198 seconds (JVM running for 2.656)
```

The screenshot shows the IntelliJ IDEA interface with the "Run" tab selected.

**Run Tab:**

SpringBootExampleApplication

```
2018-12-19 07:54:16.342  INFO 56518 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to DEBUG
2018-12-19 07:54:17.386  INFO 56518 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2018-12-19 07:54:17.418  INFO 56518 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2018-12-19 07:54:17.419  INFO 56518 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/9.0.13
2018-12-19 07:54:17.432  INFO 56518 --- [ restartedMain] o.a.catalina.core.AprLifecycleListener : The APR based Apache Tomcat Native library which allows optimal performance in production environments was not found on the java.library.path: [/usr/lib64, /usr/lib, /lib64, /lib, /usr/lib/x86_64-linux-gnu]
2018-12-19 07:54:17.526  INFO 56518 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2018-12-19 07:54:17.526  INFO 56518 --- [ restartedMain] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 1184 ms
2018-12-19 07:54:17.705  INFO 56518 --- [ restartedMain] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2018-12-19 07:54:17.846  WARN 56518 --- [ restartedMain] ion$DefaultTemplateResolverConfiguration : Cannot find template location: classpath:/templates/ (please add some templates or check your Thymeleaf configuration)
2018-12-19 07:54:17.926  INFO 56518 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2018-12-19 07:54:17.983  INFO 56518 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2018-12-19 07:54:17.987  INFO 56518 --- [ restartedMain] n.n.S.SpringBootExampleApplication : Started SpringBootExampleApplication in 2.198 seconds (JVM running for 2.656)
```

**Bottom Status Bar:**

- Terminal
- 0: Messages
- 4: Run
- 6: TODO
- Event Log

Compilation completed successfully in 1 s 897 ms (5 minutes ago)

**\$ git init**

The screenshot shows the IntelliJ IDEA interface with a Spring Boot project named "SpringBootExample".

**Project Structure:**

- Project: SpringBootExample (~/Downloads/SpringBootExample)
- src:
  - main:
    - java:
      - no.noroff.SpringBootExample
        - GreetingController
        - SpringBootExampleApplication
    - resources
      - static
      - templates
      - application.properties
  - test
  - target
    - .gitignore
    - mvnw
    - mvnw.cmd
    - pom.xml
    - SpringBootExample.iml
- External Libraries
- Scratches and Consoles

**Code Editor:**

```
1 package no.noroff.SpringBootExample;
2
3 import ...
4
5
6 @SpringBootApplication
7 public class SpringBootExampleApplication {
8
9     public static void main(String[] args) { SpringApplication.run(SpringBootExampleApplication.class, args); }
10
11 }
12
13
14
15 }
```

**Terminal:**

```
+ craig@Tessier:~/Downloads/SpringBootExample$ ls
SpringBootExample.iml mvnw mvnw.cmd pom.xml src target
x craig@Tessier:~/Downloads/SpringBootExample$ git init
Initialized empty Git repository in /Users/craig/Downloads/SpringBootExample/.git/
craig@Tessier:~/Downloads/SpringBootExample$
```

**Bottom Status Bar:**

- 10.14.2 0:-\*
- 5! 2d0h 2.18 8x2.3GHz 6.7G63% 48962026457% 2018-12-19 07:59:47
- Terminal 0: Messages 4: Run 6: TODO Event Log
- Compilation completed successfully in 1 s 897 ms (5 minutes ago) 15:1 LF UTF-8

**Run again to check  
greeting**

SpringBootExample src main java no noroff SpringBootExample SpringBootExampleApplication

Project 1: Project

SpringBootExample ~/Downloads/SpringBootE .idea .mvn src main java no.noroff.SpringBootExample GreetingController.java SpringBootExampleApplication.java greeting.html

SpringBootExampleApplication.java

```
1 package no.noroff.SpringBootExample;
2
3 import ...
4
5 @SpringBootApplication
6 public class SpringBootExampleApplication {
7
8     public static void main(String[] args) { SpringApplication.run(SpringBootExampleApplication.class, args); }
9
10 }
11
12 }
13
14
15 }
```

Maven Projects

Ant Build

resources static templates application.properties

test

target .gitignore mvnw mvnw.cmd pom.xml SpringBootExample.iml

External Libraries

Scratches and Consoles

Run: SpringBootExampleApplication

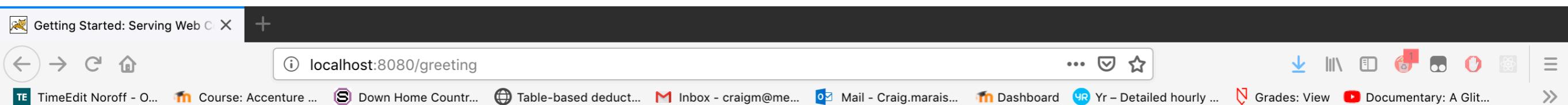
Spring Boot :: (v2.1.1.RELEASE)

2018-12-19 08:00:12.125 INFO 57862 --- [ restartedMain] n.n.S.SpringBootExampleApplication : Starting SpringBootExampleApplication on Tessier.local with PID 57862 (/Users/craig/Dow
2018-12-19 08:00:12.128 INFO 57862 --- [ restartedMain] n.n.S.SpringBootExampleApplication : No active profile set, falling back to default profiles: default
2018-12-19 08:00:12.183 INFO 57862 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-properties' to 'false' to d
2018-12-19 08:00:12.184 INFO 57862 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to
2018-12-19 08:00:13.246 INFO 57862 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2018-12-19 08:00:13.267 INFO 57862 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2018-12-19 08:00:13.267 INFO 57862 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/9.0.13
2018-12-19 08:00:13.276 INFO 57862 --- [ restartedMain] o.a.catalina.core.AprLifecycleListener : The APR based Apache Tomcat Native library which allows optimal performance in producti
2018-12-19 08:00:13.345 INFO 57862 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2018-12-19 08:00:13.345 INFO 57862 --- [ restartedMain] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization completed in 1161 ms
2018-12-19 08:00:13.523 INFO 57862 --- [ restartedMain] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2018-12-19 08:00:13.765 INFO 57862 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2018-12-19 08:00:13.829 INFO 57862 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2018-12-19 08:00:13.833 INFO 57862 --- [ restartedMain] n.n.S.SpringBootExampleApplication : Started SpringBootExampleApplication in 2.188 seconds (JVM running for 2.619)

Terminal 0: Messages 4: Run 6: TODO Event Log

Compilation completed successfully in 2 s 9 ms (moments ago) 15:1 LF UTF-8 Git: master

**localhost:8080/  
greeting**



Hello, World!

**And index.html  
(static)**

The screenshot shows the IntelliJ IDEA interface with a Spring Boot application named "SpringBootExample".

**Project View:** The left sidebar shows the project structure under "SpringBootExample". It includes the ".idea" folder, ".mvn", "src" (containing "main" with "java" and "resources" subfolders), "test", "target" (with build files like ".gitignore", "mvnw", "mvnw.cmd", and "pom.xml"), and "Scratches and Consoles".

**Code Editor:** The main editor window displays the "index.html" file. The content is:

```
<!DOCTYPE HTML>
<html>
<head>
    <title>Getting Started: Serving Web Content</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
</head>
<body>
    <p>Get your greeting <a href="/greeting">here</a></p>
</body>
</html>
```

**Run Tab:** The bottom tab bar shows the "Run" tab selected, with the configuration "SpringBootExampleApplication". The log output shows the application starting up:

```
:: Spring Boot ::      (v2.1.1.RELEASE)

2018-12-19 08:01:15.798  INFO 59303 --- [ restartedMain] n.n.S.SpringBootExampleApplication      : Starting SpringBootExampleApplication on Tessier.local with PID 59303 (/Users/craig/Dow...
2018-12-19 08:01:15.802  INFO 59303 --- [ restartedMain] n.n.S.SpringBootExampleApplication      : No active profile set, falling back to default profiles: default
2018-12-19 08:01:15.850  INFO 59303 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-properties' to 'false' to d...
2018-12-19 08:01:15.851  INFO 59303 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to ...
2018-12-19 08:01:17.153  INFO 59303 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2018-12-19 08:01:17.182  INFO 59303 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2018-12-19 08:01:17.182  INFO 59303 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/9.0.13
2018-12-19 08:01:17.196  INFO 59303 --- [ restartedMain] o.a.catalina.core.AprLifecycleListener : The APR based Apache Tomcat Native library which allows optimal performance in producti...
2018-12-19 08:01:17.279  INFO 59303 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplicationContext
2018-12-19 08:01:17.279  INFO 59303 --- [ restartedMain] o.s.web.context.ContextLoader        : Root WebApplicationContext: initialization completed in 1428 ms
2018-12-19 08:01:17.447  INFO 59303 --- [ restartedMain] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2018-12-19 08:01:17.612  INFO 59303 --- [ restartedMain] o.s.b.a.w.s.WelcomePageHandlerMapping : Adding welcome page: class path resource [static/index.html]
2018-12-19 08:01:17.670  INFO 59303 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer     : LiveReload server is running on port 35729
2018-12-19 08:01:17.729  INFO 59303 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2018-12-19 08:01:17.732  INFO 59303 --- [ restartedMain] n.n.S.SpringBootExampleApplication      : Started SpringBootExampleApplication in 2.332 seconds (JVM running for 2.871)
2018-12-19 08:01:21.895  INFO 59303 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring DispatcherServlet 'dispatcherServlet'
2018-12-19 08:01:21.895  INFO 59303 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet       : Initializing Servlet 'dispatcherServlet'
2018-12-19 08:01:21.900  INFO 59303 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet       : Completed initialization in 5 ms
```

**Bottom Status Bar:** The status bar shows "Compilation completed successfully in 319 ms (moments ago)" and "Event Log" tab.

**heroku create  
<name> – region eu**

SpringBootExample

Project

SpringBootExample ~/Downloads/SpringBootExa

.idea

.mvn

src

main

java

no.noroff.SpringBootExample

GreetingController

SpringBootExampleApplication

resources

static

templates

application.properties

test

target

.gitignore

mvnw

mvnw.cmd

pom.xml

SpringBootExample.iml

External Libraries

Scratches and Consoles

GreetingController.java

greeting.html

SpringBootExampleApplication.java

index.html

```
<!DOCTYPE HTML>
<html>
<head>
    <title>Getting Started: Serving Web Content</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
</head>
<body>
    <p>Get your greeting <a href="/greeting">here</a></p>
</body>
</html>
```

## Terminal

```
+ craig@Tessier:~/Downloads/SpringBootExample$ heroku create craigm-springbootexample --region eu
X https://craigm-springbootexample.herokuapp.com/ | https://git.heroku.com/craigm-springbootexample.git
craig@Tessier:~/Downloads/SpringBootExample$
```

## ★ 2: Favorites

## ■ 3: Structure

10.14.2 0:-\*

5! 2d0h 3.05 8x2.3GHz 6.4G71% 48962026457% 2018-12-19 08:01:56

Terminal Run TODO

Event Log

Compilation completed successfully in 319 ms (a minute ago)

10:8 LF UTF-8 Git: master

**Check heroku.com**

Personal apps | Heroku

https://dashboard.heroku.com/apps

TimeEdit Noroff - O... Course: Accenture ... Down Home Countr... Table-based deduct... Inbox - craigm@me... Mail - Craig.marais... Dashboard Yr - Detailed hourly ... Grades: View Documentary: A Glit...

HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

Personal ▾

New ▾

 craig-mavern-class-demo	 Java	heroku-18	Europe	
 craigm-simplehtmlapp	 Java	heroku-18	Europe	
 craigm-springbootexample		heroku-18	Europe	
 craigs-awesome-example	 heroku-maven-plugin	heroku-18	Europe	
 tessier	 Node.js	heroku-18	Europe	

**\$ git add .**

**\$ git commit -am “...”**

The screenshot shows an IDE interface with the following details:

- Project Bar:** Shows the current project is "SpringBootExample".
- Toolbars:** Includes standard icons for file operations, search, and help.
- Left Sidebar:** Contains sections for "1: Project", "2: Favorites", and "3: Structure".
- Central Area:** Displays code editor tabs for "GreetingController.java", "greeting.html", "SpringBootExampleApplication.java", "index.html", and "application.properties".
- Code Editor:** The "GreetingController.java" tab is active, showing Java code for a Spring Boot controller. The code includes annotations like `@Controller` and `@GetMapping("/greeting")`.
- Terminal:** A terminal window at the bottom shows the command-line process of creating a Heroku application and committing changes to Git.
- Bottom Status Bar:** Provides system information (IP: 10.14.2), performance metrics (CPU: 5%, RAM: 2d0h 2.22 8x2.3GHz 6.8G66%), and a timestamp (2018-12-19 08:03:42).

```
+ craig@Tessier:~/Downloads/SpringBootExample$ heroku create craigm-springbootexample --region eu
Creating ⚡craigm-springbootexample... done, region is eu
https://craigm-springbootexample.herokuapp.com/ | https://git.heroku.com/craigm-springbootexample.git
craig@Tessier:~/Downloads/SpringBootExample$ git add .
craig@Tessier:~/Downloads/SpringBootExample$ git commit -am "Initlized Project to Heroku"
[master (root-commit) fba9e4d] Initlized Project to Heroku
12 files changed, 593 insertions(+)
create mode 100644 .gitignore
create mode 100644 .mvn/wrapper/maven-wrapper.jar
create mode 100644 .mvn/wrapper/maven-wrapper.properties
create mode 100755 mvnw
create mode 100644 mvnw.cmd
create mode 100644 pom.xml
create mode 100644 src/main/java/no/noroff/SpringBootExample/GreetingController.java
create mode 100644 src/main/java/no/noroff/SpringBootExample/SpringBootExampleApplication.java
create mode 100644 src/main/resources/application.properties
create mode 100644 src/main/resources/static/index.html
create mode 100644 src/main/resources/templates/greeting.html
create mode 100644 src/test/java/no/noroff/SpringBootExample/SpringBootExampleApplicationTests.java
craig@Tessier:~/Downloads/SpringBootExample$
```

**Update pom.xml  
(heroku plugin)**

SpringBootExample pom.xml

This file is indented with tabs instead of 4 spaces

```
<dependency>
</dependencies>

<build>
    <plugins>
        <plugin>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-maven-plugin</artifactId>
        </plugin>

        <plugin>
            <groupId>com.heroku.sdk</groupId>
            <artifactId>heroku-maven-plugin</artifactId>
            <version>2.0.6</version>
        </plugin>
    </plugins>
</build>

</project>
```

OK Indent with 4 spaces Show Settings

Maven Projects

Ant Build

Project

SpringBootExample ~/Downloads/SpringBootExample

- .idea
- .mvn
- src
  - main
    - java
      - no.noroff.SpringBootExample
        - GreetingController
        - SpringBootExampleApplication
    - resources
      - static
      - templates
      - application.properties
  - test
  - target
    - .gitignore
    - mvnw
    - mvnw.cmd
  - pom.xml
  - SpringBootExample.iml

External Libraries

Scratches and Consoles

Terminal

```
+ create mode 100644 .mvn/wrapper/maven-wrapper.properties
+ create mode 100755 mvnw
x create mode 100644 mvnw.cmd
create mode 100644 pom.xml
create mode 100644 src/main/java/no/noroff/SpringBootExample/GreetingController.java
create mode 100644 src/main/java/no/noroff/SpringBootExample/SpringBootExampleApplication.java
create mode 100644 src/main/resources/application.properties
create mode 100644 src/main/resources/static/index.html
create mode 100644 src/main/resources/templates/greeting.html
create mode 100644 src/test/java/no/noroff/SpringBootExample/SpringBootExampleApplicationTests.java
craig@Tessier:~/Downloads/SpringBootExample$ git
```

5! 2d0h 2.49

i Maven projects need to be imported Import Changes Enable Auto-Import

Event Log

Maven projects need to be imported // Import Changes // Enable Auto-Import (a minute ago)

64:22 LF UTF-8 Git: master

```
$ git add .  
$ git commit -am “...”  
$ git push heroic master
```

The screenshot shows an IDE interface with the following details:

- Project View:** On the left, the project structure for "SpringBootExample" is displayed, showing the .idea, .mvn, and src folders, with main.java and resources subfolders.
- Code Editor:** The main editor window displays the `pom.xml` file. A tooltip at the top says "This file is indented with tabs instead of 4 spaces". The code includes configuration for a Spring Boot application, specifying the app name and process types (java).
- Terminal:** Below the editor is a terminal window showing the command-line history of a user named "craig" performing operations like `git add .`, `git commit -am "updated pom.xml"`, and `git push heroku master`.
- System Status:** At the bottom, system status indicators show 5 cores, 2.76 GHz, 8x2.3GHz, 6.9G63%, 48962026457%, and the date/time 2018-12-19 08:05:44.
- Bottom Navigation:** The footer includes tabs for Terminal, Run, and TODO, along with system status icons for battery, signal, and network.

**Check it out LIVE**

The screenshot shows a developer's workspace with two main panes: an IDE interface on the left and a browser window on the right.

**IDE Left Pane:**

- Project View:** Shows the project structure for "SpringBootExample" located at "/Downloads/SpringBootExample".
- Code Editor:** Displays the file "GreetingController.java" with code related to Spring Boot configuration.
- Terminal:** Shows the command-line output of the deployment process. It includes logs from Heroku, Maven, and Git, indicating the creation of a JAR file, its upload to Heroku, and the successful deployment of the application to <https://craigm-springbootexample.herokuapp.com/>.

**Browser Right Pane:**

- Title Bar:** "Getting Started: Serving Web" and the URL "https://craigm-springbootexample.herokuapp.com/".
- Content:** A simple web page with the text "Get your greeting [here](#)".