



gvNIX

Rapid Application Development for

Java



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Technology

Evolution

Productivity

Many options

¿Java?

Community

Well-known

Versatile

Documented

Project



gvNIX = Productivity +
Homogeneity



Roo, Making gvNIX Work

A close-up photograph of a skateboard's hardware. The image shows a white skateboard deck at the top, a black truck in the middle, and a white polyurethane wheel at the bottom. The wheel is mounted on a silver metal axle with a nut and washer. The skateboard is resting on a light-colored, textured concrete surface. The background is slightly blurred, focusing attention on the wheel and truck.

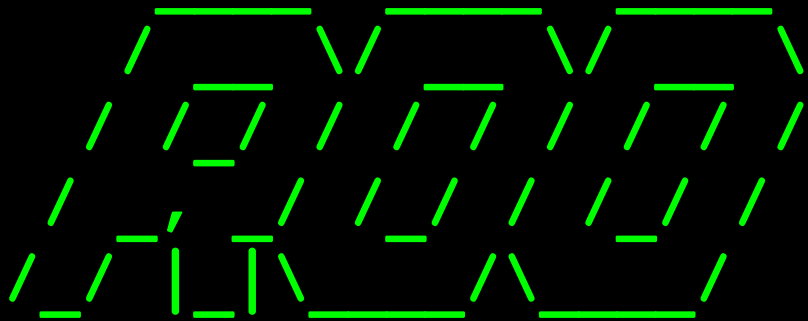
Roo distribution

Convention

No runtime

Code generation

Shell

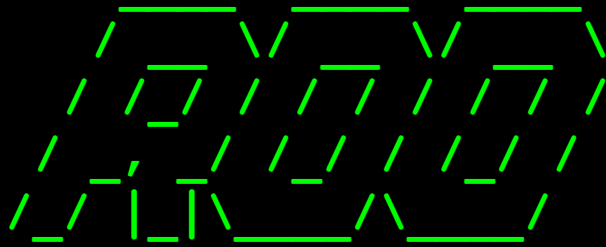


1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

roo>

Command help



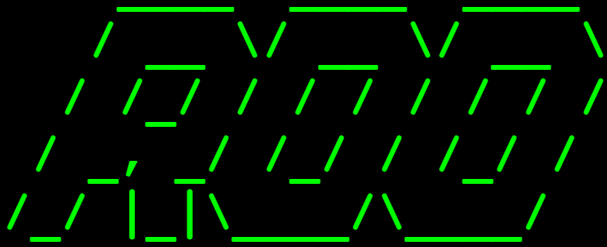
1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
roo> help
```

```
* */ - End of block comment
* /* - Start of block comment
* // - Inline comment markers (start of line only)
* ; - Inline comment markers (start of line only)
* backup - Backup your project to a zip file
* cit security setup - Configura la autenticación de usuarios con el
mecanismo de la Consellería de Infraestructuras y Transportes.
...
```

Command hint



1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
roo> hint
```

Welcome to Roo! We hope you enjoy your stay!

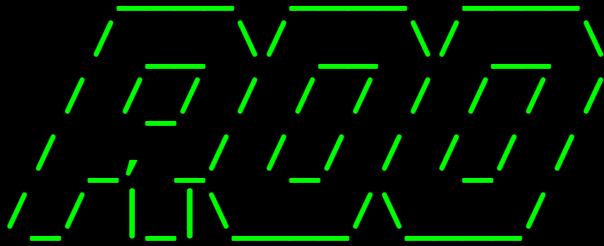
Before you can use many features of Roo, you need to start a new project.

To do this, type 'project' (without the quotes) and then hit TAB.

Enter a `--topLevelPackage` like 'com.mycompany.projectname' (no quotes).

...

TAB



1.1.0.M1 [rev 3a0b8a3]

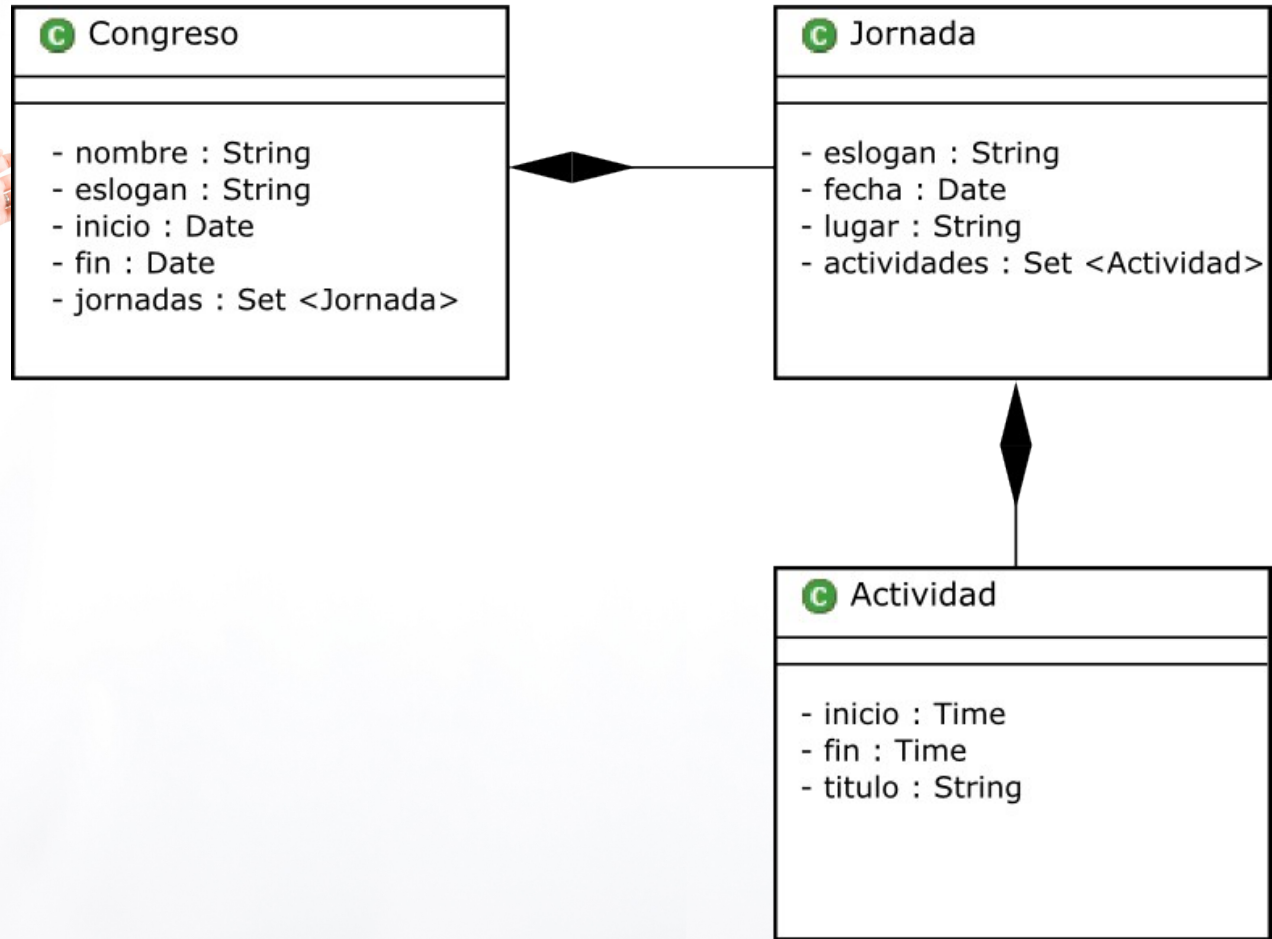
Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

roo> **s<TAB>**

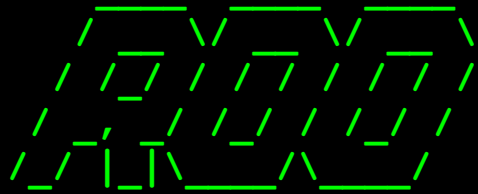
script
service class
service export ws
service operation
solr setup
...

security setup
service define ws
service import ws
solr add
system properties

selenium test
service export operation
service list operation
solr all



The project



Command project

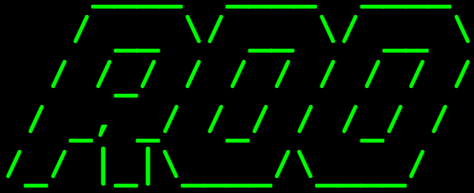
1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
roo> project --topLevelPackage  
com.proyecto
```

```
Created /tmp/proyecto/pom.xml  
Created SRC_MAIN_JAVA  
Created SRC_MAIN_RESOURCES  
Created SRC_TEST_JAVA  
Created SRC_TEST_RESOURCES  
Created SRC_MAIN_WEBAPP  
Created SRC_MAIN_RESOURCES/META-INF/spring  
Created SRC_MAIN_RESOURCES/META-INF/spring/applicationContext.xml  
Created SRC_MAIN_RESOURCES/log4j.properties  
com.proyecto roo>
```

Command persistence

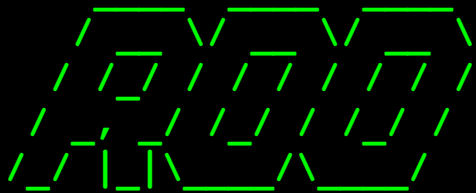


1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
com.proyecto roo> persistence
setup --provider HIBERNATE
--database HYPERSONIC_IN_MEMORY
```

```
Created SRC_MAIN_RESOURCES/META-INF/persistence.xml
Created SRC_MAIN_RESOURCES/META-INF/spring/database.properties
Managed SRC_MAIN_RESOURCES/META-INF/spring/applicationContext.xml
...
com.proyecto roo>
```



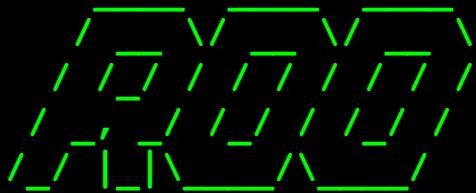
1.1.0.M1 [rev 3a0b8a3]

© Actividad

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
com.proyecto roo> entity --class  
~.domain.Actividad
```

```
Created SRC_MAIN_JAVA/com/proyecto/domain  
Created SRC_MAIN_JAVA/com/proyecto/domain/Actividad.java  
Created SRC_MAIN_JAVA/com/proyecto/domain/Actividad_Roo_Entity.aj  
Created SRC_MAIN_JAVA/com/proyecto/domain/Actividad_Roo_ToString.aj  
Created SRC_MAIN_JAVA/com/proyecto/domain/Actividad_Roo_Configurable.aj  
...  
~.domain.Actividad roo>
```



1.1.0.M1 [rev 3a0b8a3]

 Actividad

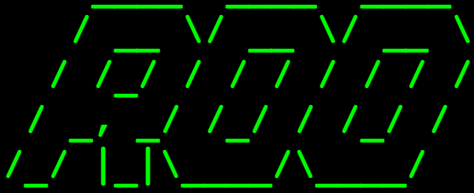
- inicio : Time
- fin : Time
- titulo : String

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
~.domain.Actividad roo> field  
string --fieldName titulo  
--notNull --sizeMin 4
```

```
Managed SRC_MAIN_JAVA/com/proyecto/domain/Actividad.java  
Managed SRC_MAIN_JAVA/com/proyecto/domain/Actividad_Roo_JavaBean.aj  
Managed SRC_MAIN_JAVA/com/proyecto/domain/Actividad_Roo_ToString.aj  
...  
~.domain.Actividad roo>
```

Command finder



1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

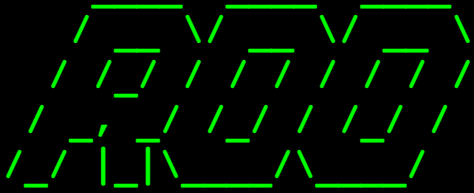
```
~.domain.Actividad roo> finder  
add --finderName  
findActividadesByInicio
```

```
Managed SRC_MAIN_JAVA/com/proyecto/domain/Actividad.java  
Created SRC_MAIN_JAVA/com/proyecto/domain/Actividad_Roo_Finder.aj
```

...

```
~.domain.Actividad roo>
```

Command controller



1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

~.domain.Actividad roo>

controller all --package ~.web

Created SRC_MAIN_JAVA/com/proyecto/web

Created SRC_MAIN_JAVA/com/proyecto/web/ActividadController.java

Created SRC_MAIN_WEBAPP/WEB-INF/spring

Created SRC_MAIN_WEBAPP/WEB-INF/spring/webmvc-config.xml

Created SRC_MAIN_JAVA/com/proyecto/web/ActividadController_Roo_Controller.aj

Managed ROOT/pom.xml [Added dependency org.apache.tiles:tiles-core:2.2.1]

...

~.web roo>

Ta-da!

ROO

JORNADAS

- Crear nuevo Jornada
- Listar Jornadas

ACTIVIDADES

- Crear nuevo Actividad
- Listar Actividades
- Buscar por Inicio

▼ Crear nuevo Actividad

Titulo:

Inicio:

Fin:

Introducir Fin (obligatorio)

GUARDAR

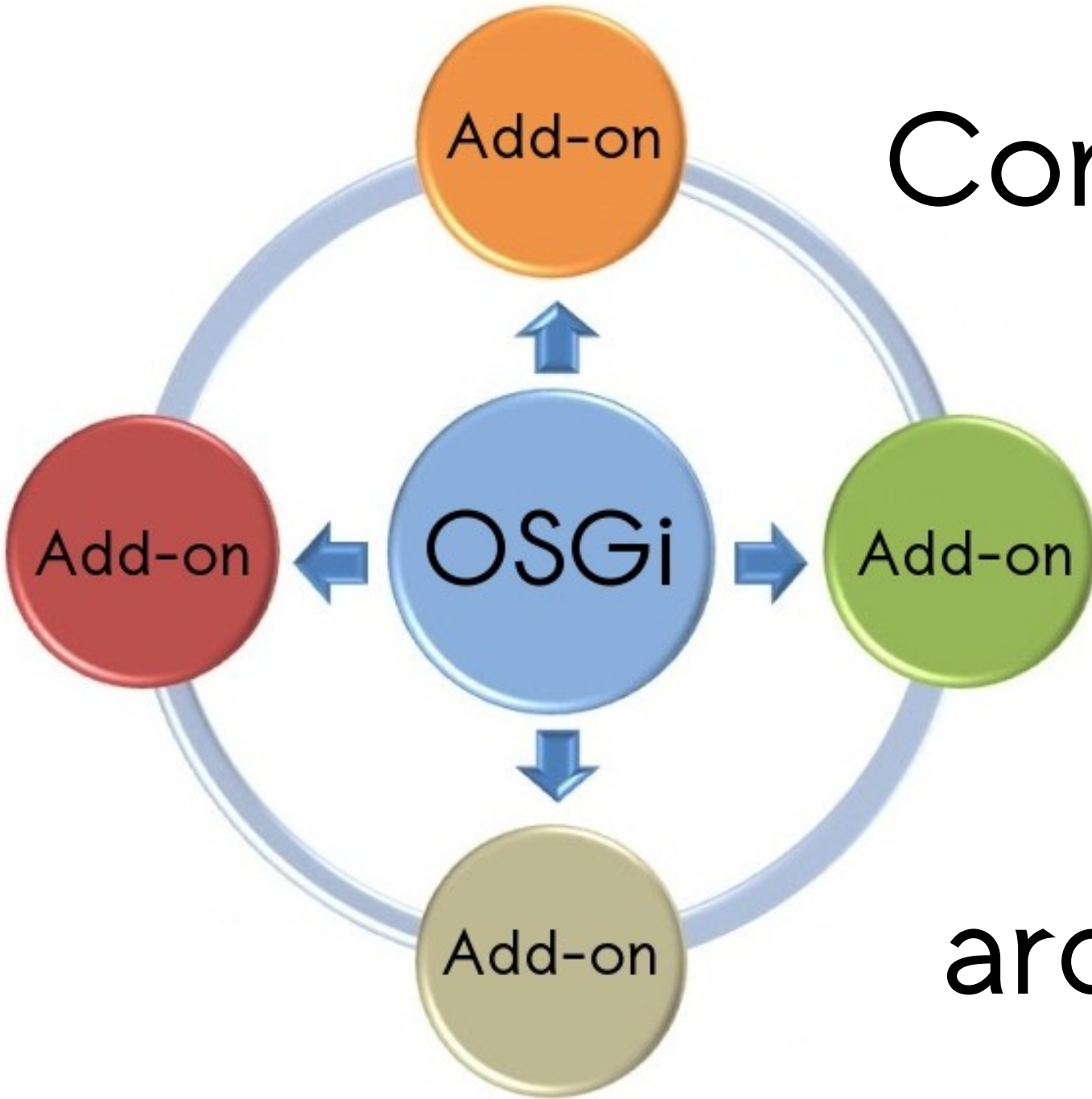
| noviembre | | | | | | |
|-----------|----|----|------|------|----|----|
| L | M | M | J | V | S | D |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2009 | | | 2010 | 2011 | | |

Inicio | Idioma:

Sponsored by SpringSource



Beyond
the
shell



Components

based

architecture

Runtime

JSP/Tiles

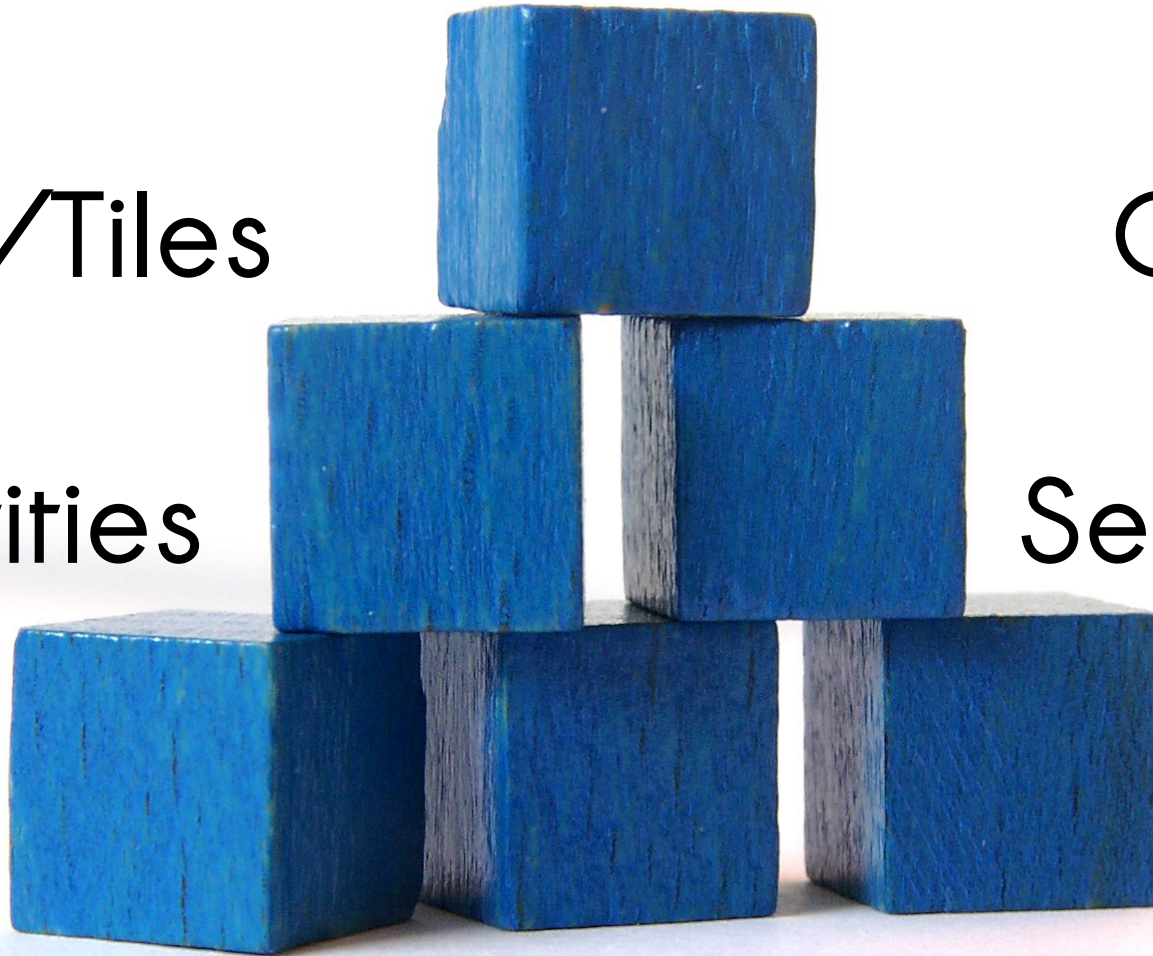
GWT

Entities

Security

Services

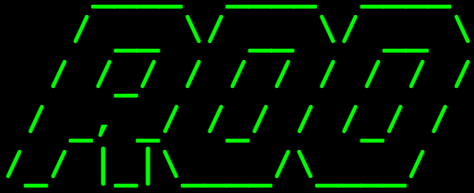
Persistence



Themes



Command theme



1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
roo> theme install --name theme-  
cit
```

```
roo> theme set --name theme-cit
```

...

```
roo>
```

Ta-da!

Usuario Invitado


Introducir descripcion

Proyecto


Modulos principales


Herramientas auxiliares

Administracion sistema


 [Ayuda](#)


Idioma:      

 [Jornadas](#) ▶

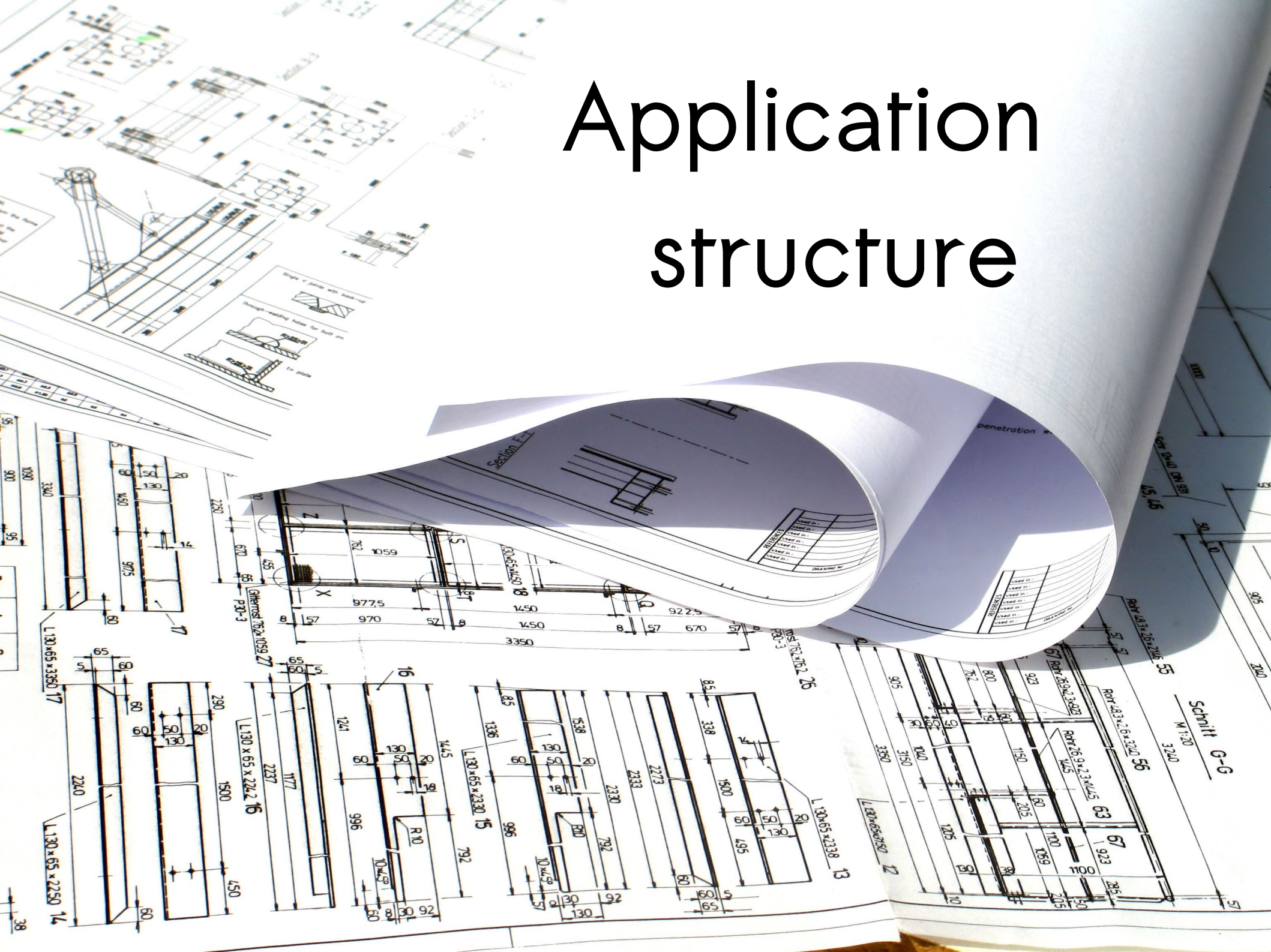
 [Actividades](#) ▶

 [Crear nuevo Actividad](#)

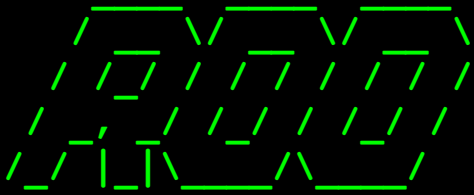
 [Listar Actividades](#)

 [Buscar por Inicio](#)

Application structure



Command page



1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
~.web roo> page list
```

```
/Jornadas  
/Jornadas/Jornada  
/Jornadas/Jornadas  
/Actividades  
/Actividades/Actividad  
/Actividades/Actividades  
/Actividades/Inicio
```

```
~.web roo> page move --page  
/Actividades --into /Jornadas
```

Ta-da!

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Idioma:      


 [Jornadas](#) ▶


 [Crear nuevo Jornada](#)

 [Listar Jornadas](#)

 [Actividads](#) ▶

 [Crear nuevo Actividad](#)

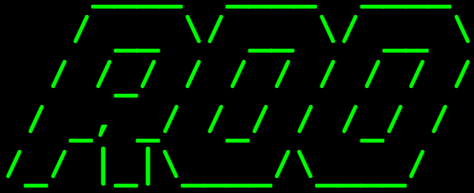
 [Listar Actividades](#)

 [Buscar por Inicio](#)



Beyond
entities:
The
Service
Layer

Command service



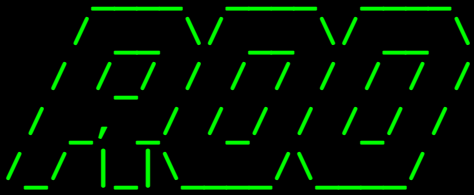
1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
roo> service class --class  
~.services.ProgramaVirtualSrv
```

```
roo>
```

Command service operation

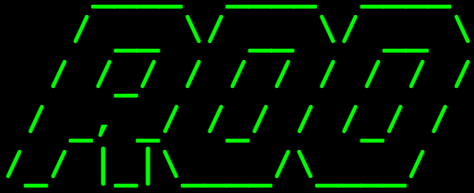


1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
roo> service operation --name programa
--service
~.services.ProgramaVirtualSrv --return
java.lang.String --paramTypes
java.util.Daservice operation --name
programa --service
~.services.ProgramaVirtualSrv --return
java.lang.String --paramTypes
java.lang.String --paramNames dia
```

Create a web service



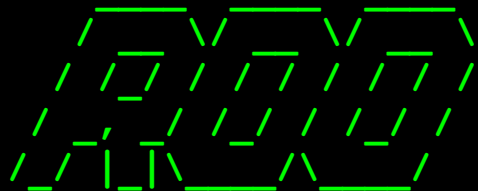
1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
roo> service define ws --class  
~.services.ProgramaVirtualSrv
```

```
roo> service export operation  
--class  
~.services.ProgramaVirtualSrv  
--method programa
```

Access to remote web service



1.1.0.M1 [rev 3a0b8a3]

Welcome to Spring Roo. For assistance press TAB or type "hint" then hit ENTER.

```
roo> service import ws --wsdl  
http://api.bing.net/search.wsdl  
--class ~.service.BingService
```

Rich Internet Application

Google Web Toolkit

DB reverse eng

JAAS

Reports

SOA



www.gvpontis.gva.es/gvnix

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