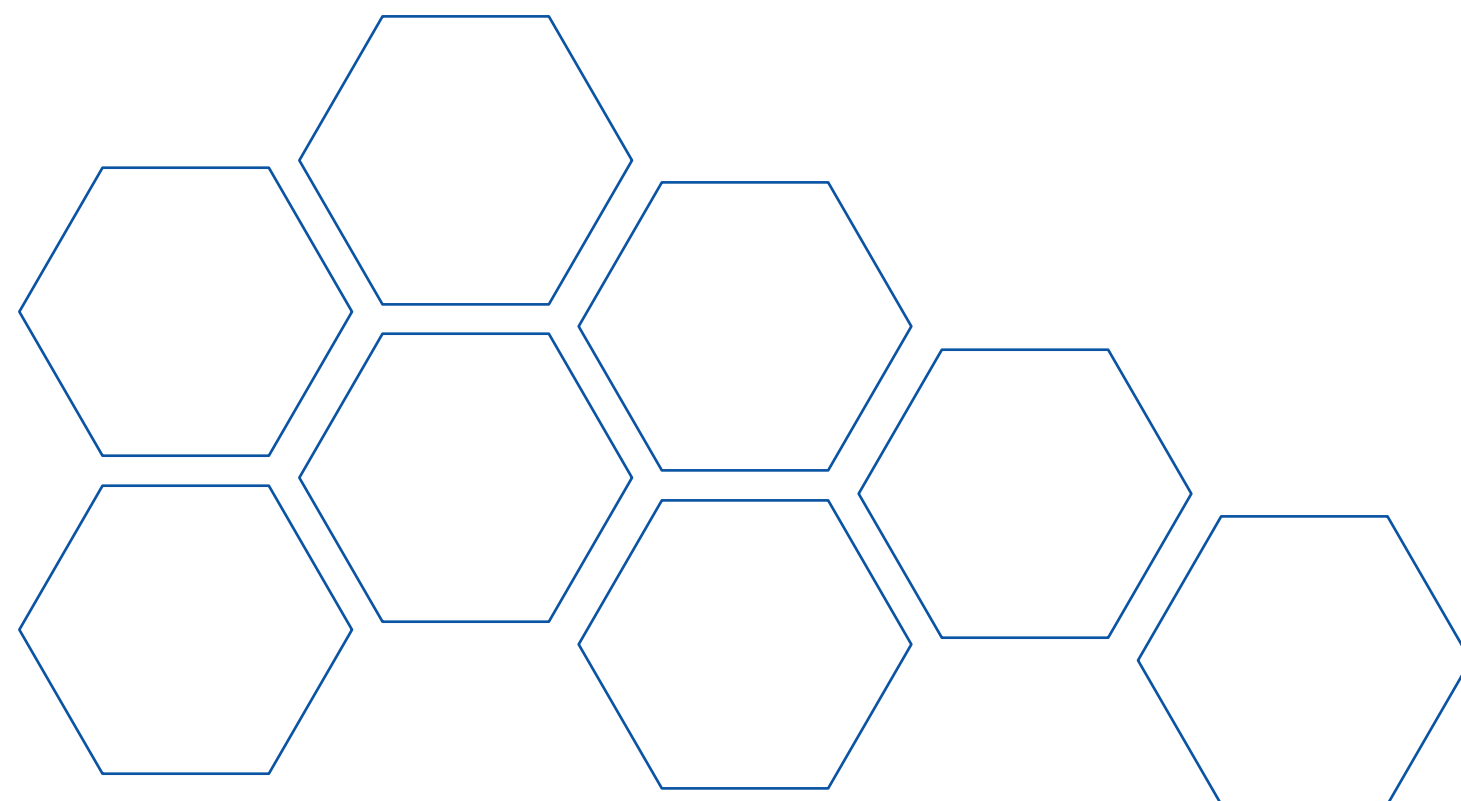


Apache Groovy es un lenguaje poderoso,  
opcionalmente “Typed” y dinámico,

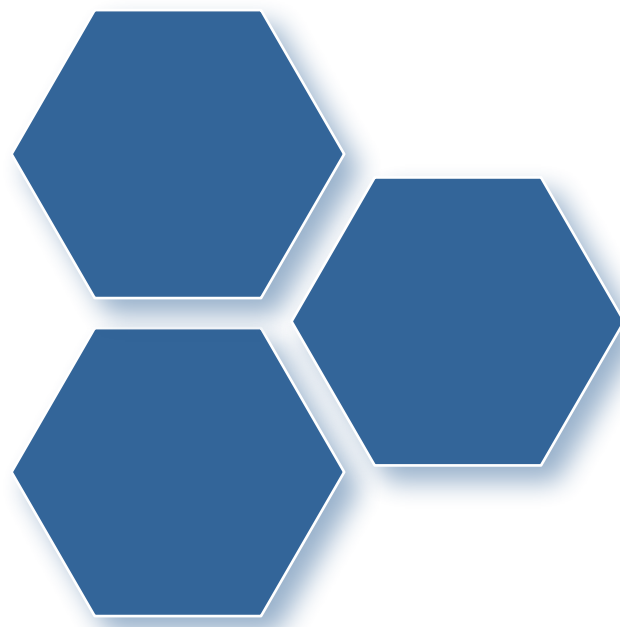
*“Groovy, el segundo lenguaje mas  
utilizado en ecosistemas Java “*

Gerardo Nuñez



# Lenguajes del Ecosistema Java (JVM)



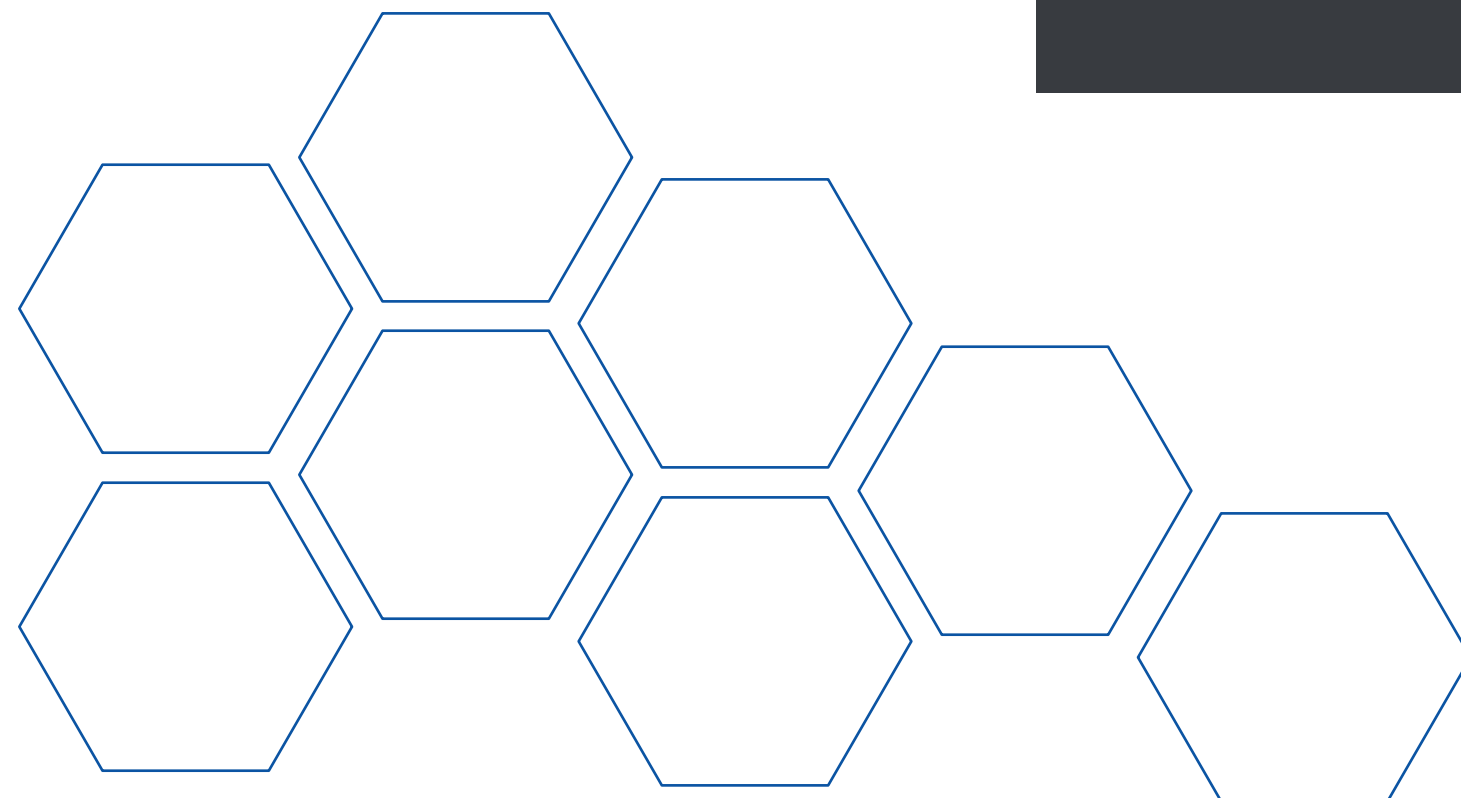


# Java

```
class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

# Groovy

```
println("Hello, World!")
```







## A multi-faceted language for the Java platform

**Apache** Groovy is a **powerful, optionally typed and dynamic** language, with **static-typing and static compilation** capabilities, for the Java platform aimed at improving developer productivity thanks to a concise, **familiar and easy to learn syntax**. It integrates smoothly with any Java program, and immediately delivers to your application powerful features, including scripting capabilities, **Domain-Specific Language** authoring, runtime and compile-time **meta-programming** and **functional** programming.



### Flat learning curve

Concise, readable and expressive syntax, easy to learn for Java developers



### Powerful features

Closures, builders, runtime & compile-time meta-programming, functional programming, type inference, and static compilation



### Smooth Java integration

Seamlessly and transparently integrates and interoperates with Java and any third-party libraries



### Domain-Specific Languages

Flexible & malleable syntax, advanced integration & customization mechanisms, to integrate readable business rules in your applications



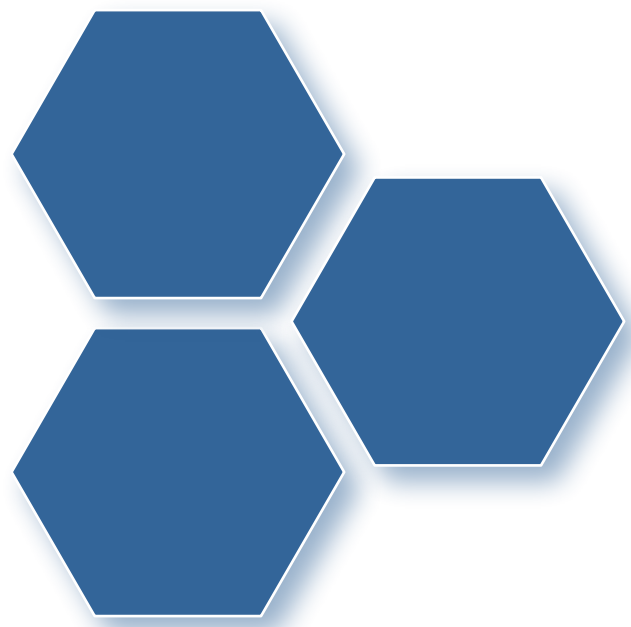
### Vibrant and rich ecosystem

Web development, reactive applications, concurrency / asynchronous / parallelism library, test frameworks, build tools, code analysis, GUI building



### Scripting and testing glue

Great for writing concise and maintainable tests, and for all your build and automation tasks



## Groovy CLI

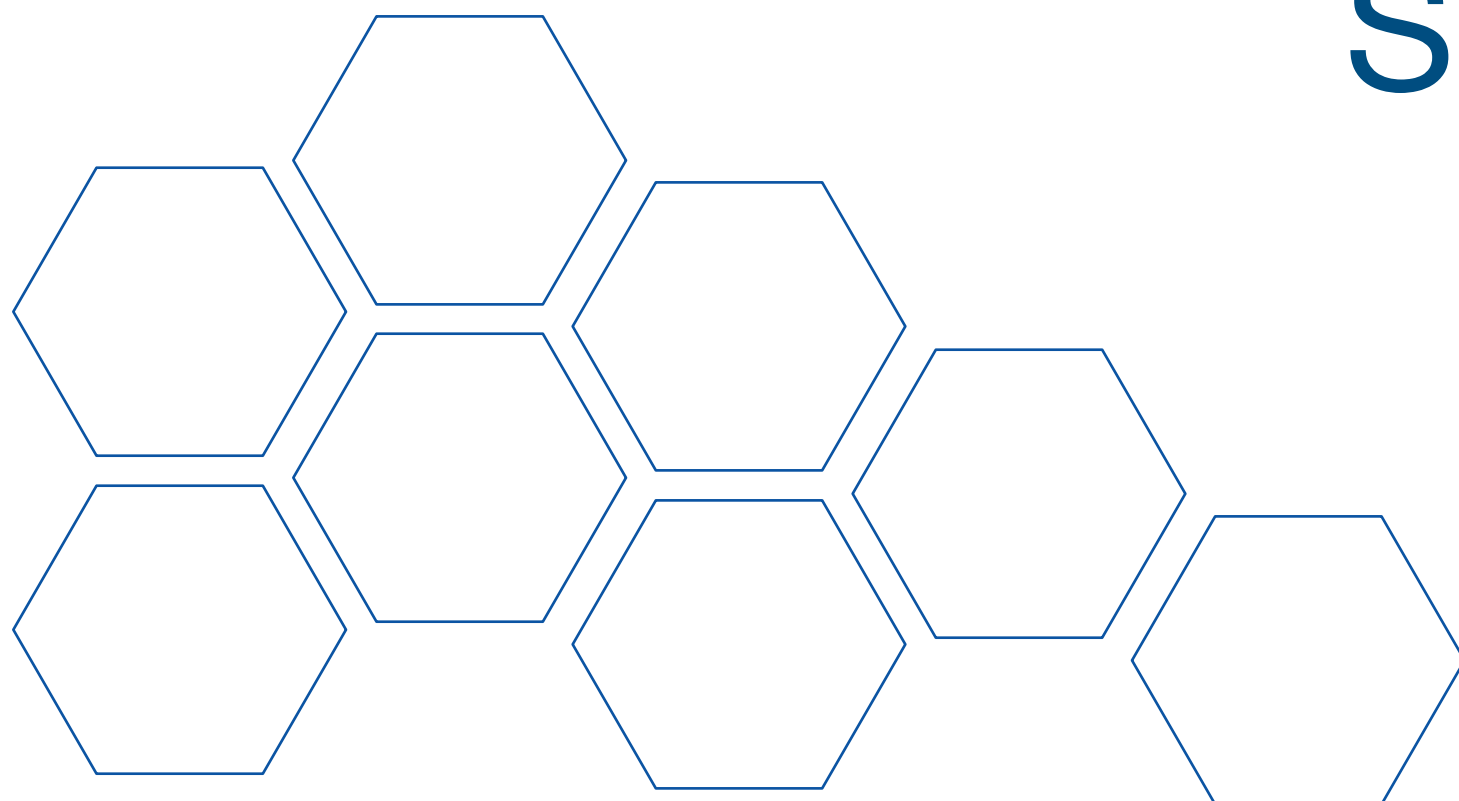
### Groovy

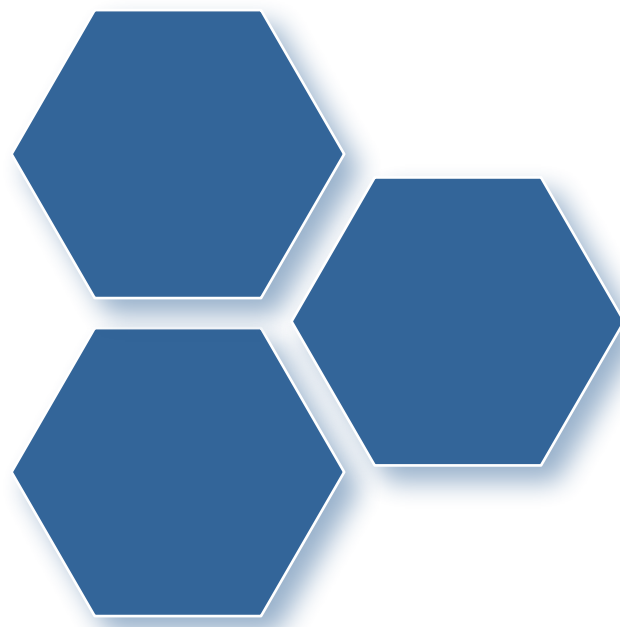
Programación Orientada a objetos

POJO —> Plain Old Java Object

POGO —> Plain Old Groovy Object

### Groovy Scripts





# Groovy

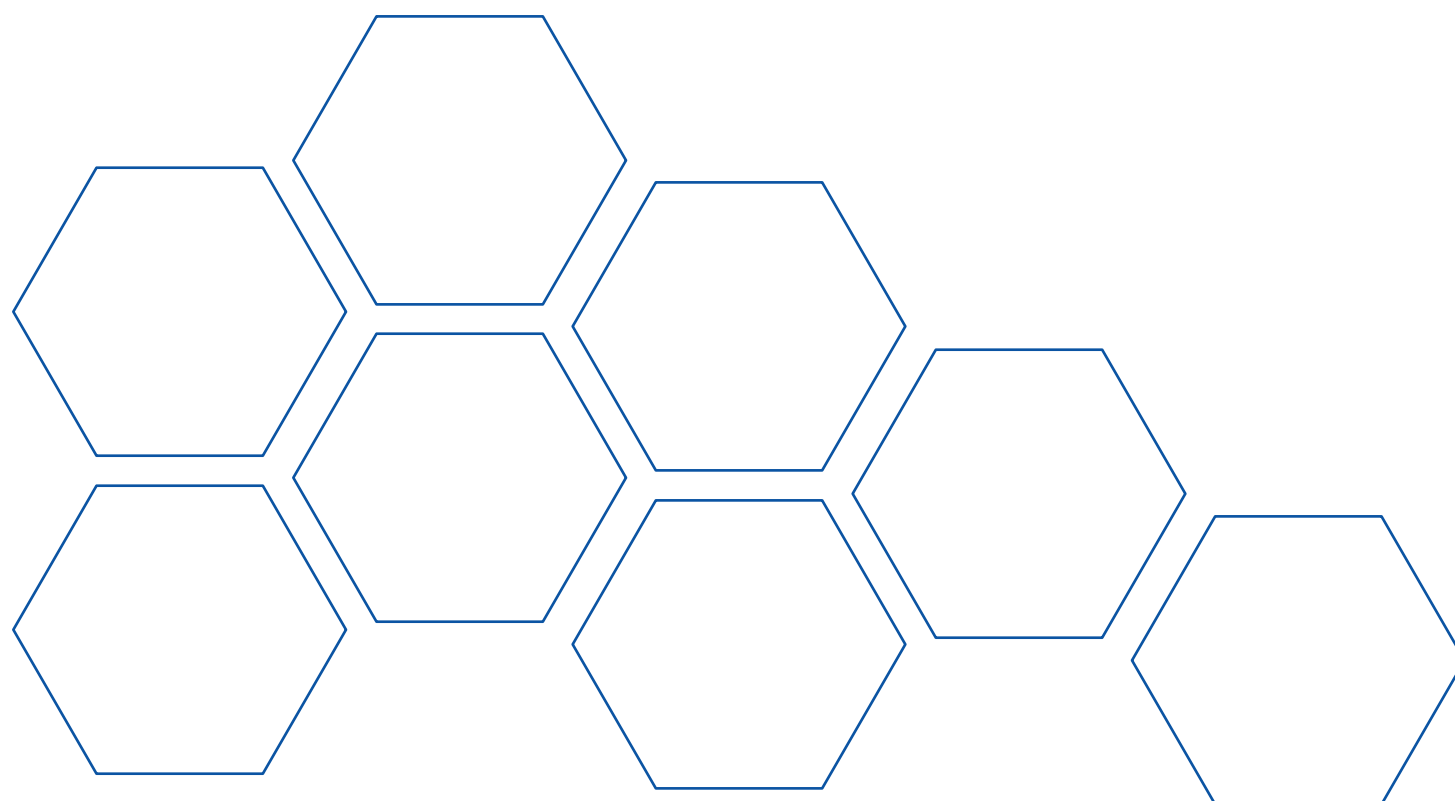
- El punto y coma es opcional al final de una sentencia
- EL operador == funciona con Objetos (String)
- Palabra reservada “def”
- Gstring
- String multilinea """

- Groovy importa los siguientes paquetes

- groovy.lang.\*
- groovy.util.\*
- java.lang.\*
- java.util.\*
- java.net.\*
- java.io.\*

- Y las clases:

- java.math.BigInteger
- java.math.BigDecimal





## Listas (ArrayList )

```
def lista0 =[ ]
```

```
def lista =[1,2,3,4,5]
```

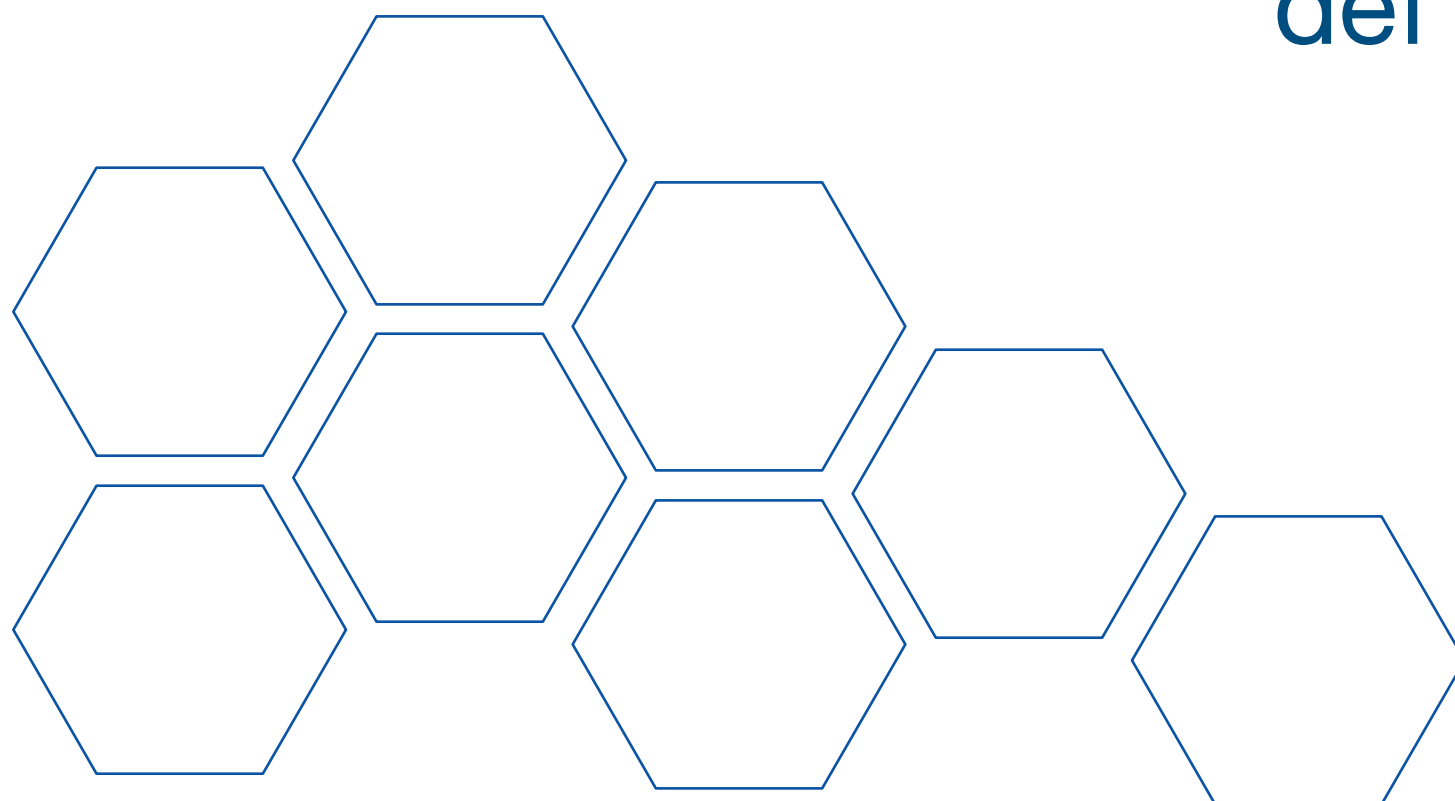
```
def lista2 = ["uno","dos","tres", "autobús"]
```

## Map (HashMap)

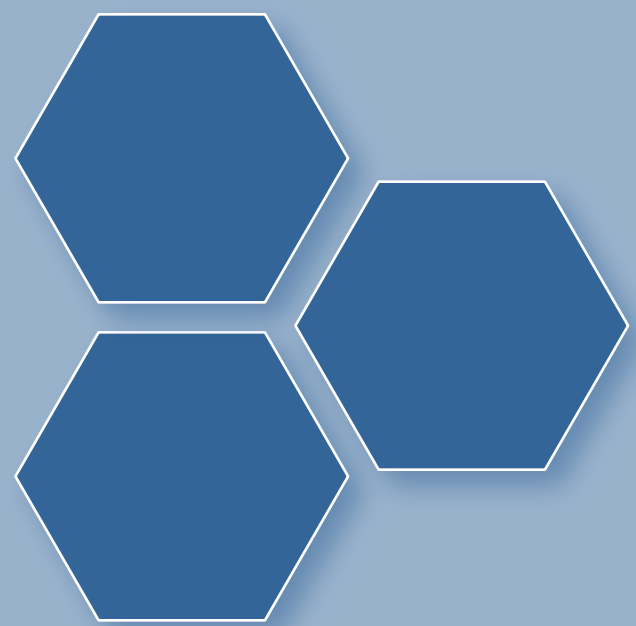
```
def mapa0 = [ : ]
```

```
def mapa1 = ["UNO":1111, "dos": 2222]
```

```
def mapa2 =["nombre":"Juan Perez", "id":2020390]
```







# Demo



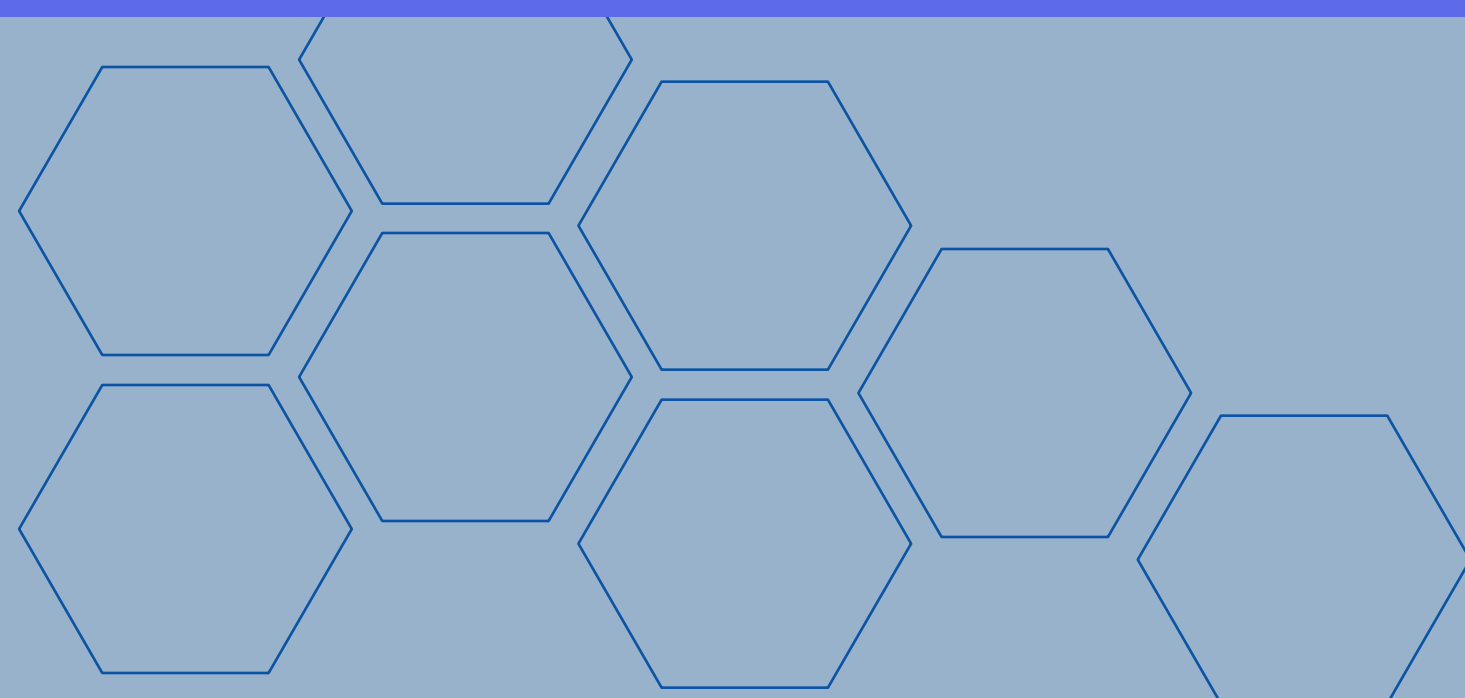
Entusiasmo



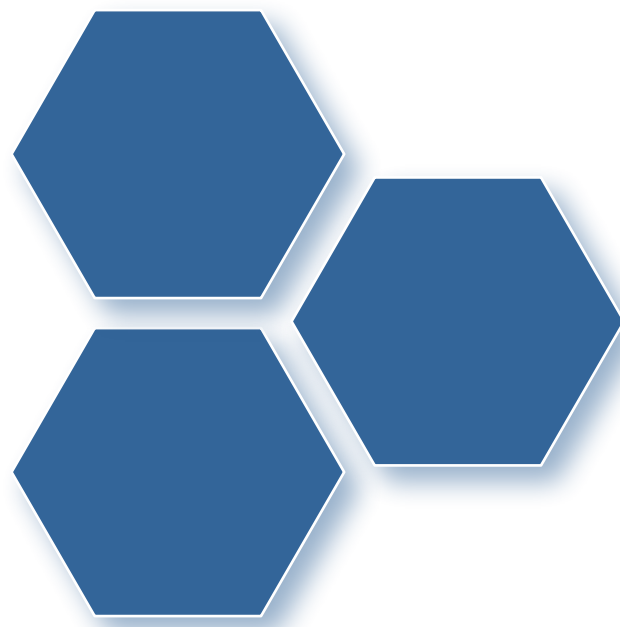
AMOR



Desilucion







## Groovy Closures (encerramientos)

```
def number = 0
new File('data.txt').eachLine { line ->
    number++
    println "$number: $line"
}
```

## Groovy Consola groovyconsole

