

Scala

...

Checktalk #9

Características

- Multiparadigma: OO + FP
- Estáticamente tipado
- Corre en la JVM
 - Compila a bytecode
 - Interoperable con Java
 - Puede usar las mismas librerías

Flexibilidad

- Inferencia de tipos: <https://scalafiddle.io/sf/ypyxek4/3>
- Parametros default: <https://scalafiddle.io/sf/ypyxek4/4>
- Parametros implícitos: <https://scalafiddle.io/sf/l5QtmpB/1>

Object oriented

- OO Puro: <https://scalafiddle.io/sf/BybFaIa/1>
- Classes: <https://scalafiddle.io/sf/Pxzrjig/1>
- Traits: <https://scalafiddle.io/sf/Pxzrjig/2>
- Objects (singletons): <https://scalafiddle.io/sf/Pxzrjig/3>

Functional programming

- Pattern matching: <https://scalafiddle.io/sf/mE7iH2C/1>
- Funciones de alto orden: <https://scalafiddle.io/sf/mE7iH2C/3>
- Partially applied functions: <https://scalafiddle.io/sf/mE7iH2C/4>
- Colecciones: <https://scalafiddle.io/sf/vaFjfx7/1>
- Lazy evaluation: <https://scalafiddle.io/sf/XRNFIS2/2>
- Tail recursion (opt): <https://scalafiddle.io/sf/MFXG19q/1>

Ejemplo

Árbol binario: <https://scalafiddle.io/sf/CViT3q4/2>

- singleton
- default params
- case class
- pattern matching
- partially applied func

Resultado: <https://scalafiddle.io/sf/CViT3q4/4>