

# PEP Scala (2)

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# Why Scala?



- **You can avoid null:**

“I call it my billion-dollar mistake. It was the invention of the null reference in 1965. At that time, I was designing the first comprehensive type system for references in an object oriented language (ALGOL W). My goal was to ensure that all use of references should be absolutely safe, with checking performed automatically by the compiler. But I couldn't resist the temptation to put in a null reference, simply because it was so easy to implement. This has led to innumerable errors, vulnerabilities, and system crashes, which have probably caused a billion dollars of pain and damage in the last forty years.”

Sir Tony (Hoare)

# return

you should never use it

# Types

- Base types

Int, Long, BigInt, Float, Double  
String, Char  
Boolean

- Compound types

List[Int]	lists of Int's
Set[Double]	sets of Double's
(Int, String)	Int-String pair
List[(BigInt, String)]	lists of BigInt-String pairs
List[List[Int]]	list of lists of Int's

**Questions?**