Scala vs Python: Comparison Table

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Sl.No.	Evaluation Criteria	Scala	Python
1	Relative	Fast	Slow
	Performance		
2	Relative background	If Java, then Scala	If C/C++, then Python
	of the development		
	team		
3	Runtime	• JVM and Java	• Platform OS +
	environment	Infrastructure	Python Libraries
		• Compiler	• Combination of
		• Can be run in an	compiler and
		'interpreted' mode	interpreter (like Java)
			• Interpreter (PyPy or CPython or Jython)
			• CPython (Compiled
			to IR and Interpreted)
			• PyPy (Interpreted
			and Compiled to
			machine code)
4	Relative suitability	If large project,	If project large, use C/
		Scala + AKKA +	C++ for performance,
		Java Libs can be	else Python for
		used as required,	simplicity. Do not go
		else Scala.	to Cython. Use Scala.
5	Type system	Static: Code	Dynamic: Flexibility &
		robustness.	speed.
6	OO Support	Yes:	Yes:
		• Classes &	• Classes & Objects
		Objects	(like C++)
		• Every value or method or class	• Yes, like C++, you
		instance is an	can use multiple inheritances from
		object	more than one base
		• Singleton for	class.
		every class	• Add hot
		• No; Traits can	polymorphism or
		be used to	Operator overloading
		implement	with RT binding
		inheritance of	Uniquely dynamic
		multiple data	
		model.	
		Parametric	
		polymorphism	
		Work around for	
		other	
		polymorphisms	T. 1.0
7	Functional	Strong Support	Weak Support

	Programming		
8	Procedural Coding	More syntax and type declarations required compared to Python	Very intuitive and readable
9	3rd Party Lib support	Strong	Stronger
10	Multi-threading Support	Yes	Yes