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# A comparison between

## BETA, C++, Eiffel, Java, Object Pascal, Ruby und Smalltalk

by Michael Neumann

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Language:	BETA	C++	Eiffel	Java	Object Pascal	Ruby	Smalltalk
<b>Inheritance</b>	simple	multiple	multiple	simple	simple	simple	simple
<b>Generic classes (templates)</b>	yes	yes	yes	no	no	no	no
<b>Strong typing</b>	yes	yes	yes	yes	yes	no	no
<b>Polymorphic</b>	yes	yes	yes	yes	yes	yes	yes
<b>Multithreading</b>	yes	possible	possible	yes	possible	possible	possible
<b>Garbage collection</b>	yes	no	yes	yes	no	yes	yes
<b>Pre-/postconditions</b>	indirect (through patterns)	no	yes	no	no	no	no
<b>Speed</b>	+	+++	++	-	++	-	-
<b>hybrid/OOP</b>	hybrid (pattern)	hybrid	OOP	OOP	hybrid	OOP	OOP
<b>Compiler/interpreter</b>	compiler	compiler	compiler	interpreter	compiler	interpreter	interpreter
<b>special environment</b>	browser/pretty-printer	-	browser/pretty-printer	-	-	-	class-browser
<b>special concept</b>	pattern	-	design by contract (Bertrand Meyer)	-	-	everything is an object	everything is an object

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eMail: [neumann@s-direktnet.de](mailto:neumann@s-direktnet.de)

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[http://www.s-direktnet.de/homepages/neumann/lang\\_cmp.en.htm](http://www.s-direktnet.de/homepages/neumann/lang_cmp.en.htm)