

	C	C++	JAVA	PYTHON
Language Type	Procedure Oriented Language	Object Oriented Language	Object Oriented Language	Both Procedural & Object Oriented Language
Developer	Dennis Ritchie	Bjarne Stroustrup	James Gosling	Guido Van Rossum
Building Block	Function Driven	Object Driven	Both Object and Class Driven	Function, Object and Class Driven
Extension	.c	.cpp	.java	.py
Platform	Dependent	Independent	Independent	Independent
Comment Style	/* */	// Single Line /* */ Multi-Line	// Single Line /* */ Multi-Line	# Single Line """ """ Multi Line
Keywords	32	50	63	33
Dynamic Variable	not supported	not supported	not supported	support
Data Security	Not Secure	Secure (less than Java)	Fully Secured	Secure (less than Java)
Case Sensitive	Yes	Yes	Yes	Yes
Header Files	Supported	Supported	Import Pacakages	Import Packages
Pointers	Supported	Supported	Not Supported	Not Supported
Exception Handling	No	Yes	Yes	Yes
Translation Type	Compiled	Compiled	Compiled & Interpreted	Interpreted

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Database Connectivity	not supported	not supported	Supported	Supported
Input	scanf( )	cin	Scanner Class or BufferedReader Class	input( )
Output	printf( )	cout	System.out.println( )	print( )
SemiColon at the end of statement	Yes	Yes	Yes	Not Required
Representing Block of Statements	{ }	{ }	{ }	Indentation
Declaring Variables	Required	Required	Required	Not Required
Applications	Compilers , Interpreters , Embedded Programming etc.	Simple Desktop Applications, Embedded Systems etc.	Desktop GUI, Mobile, Web, Gaming etc.	Desktop, Web, Gaming, Network Programming etc.
IDE	Turbo C, Code Blocks	Turbo C++, Code Blocks	Eclipse , NetBeans etc	PyCharm , PyDev, IDLE, Jupyter Notebook, Spyder etc