Comparison of **Top Programming** Languages

Metrics	Python	JavaScript	Java	C#	C	C++	Go	R	Swift
Typing Discipline	Strong, dynamically typed	Weakly typed	Statically typed	Statically typed	Weakly typed	Weakly typed	Statically typed	Strong but dynamically typed	Statically, strong and inferred type
Platform	Linux, graphical user interface, macOS	Visual studio code, Linux, Windows, Mac	Java SE, Java EE, Java ME, JavaFX	MonoDevelop, Rider, Visual studio code	MinGW, Cygwin, Unix-based typed	Cross-platform software, Cygwin, Perl	PowerPC, FreeBSD, OpenH SD	Windows, macOS, Windows	iOS, iPadOS, macOS, tvOS and watchOS
Best For	Data analytics, machine learning, even design	Creation of web pages	Creation of complete dynamic applications	Development of desktop applications, web services and web applications	Scripting of system applications and coding embedded systems	Supports object-oriented programming features	Development of cloud applications, DevOps, command line tools	Supports statistical computing and graphics by 4-core team	System programming, development of mobile and desktop applications and cloud services
Availability	Writing of python scripts, automating tasks, and conduction of data analysis	Available for making interactive web pages	Designing of web applications that may run on a single computer	Used for flexible memory management	Writing the code for operating systems, multi-device complex programs	Widely used for embedded devices and OS kernels	Used for cloud and server side applications, command line tools	Statistical computing, data miners for developing statistical software and data analysis	Used in a wide range of Apple devices like iOS, iPadOS, macOS, tvOS
Designed By	Guido van Rossum	Brendan Eich	James Gosling	Anders Hejlsberg	Dennis Ritchie	Bjarne Stroustrup	Rob Pike, Ken Thompson	Ross Ihaka	Chris Lattner, John McCall, Doug Gregor
Advantages	Enhanced productivity, easy to learn and write, dynamically typed, vast library support, hassle-free portability	Increased interactivity, richer and enhanced interfaces, less server interaction, great career opportunities	Object-oriented, easy programming language, supports portability feature, platform independent	Effective memory management, fast and powerful standard library, object-oriented	Fundamental block for many other programming languages, portable language, middle-level and structural language, built-in functions	Mid-level programming language, high portability, fast and powerful, standard library, multi-paradigm	Easy to learn, open sourced, concurrency, static code analysis, fast and hassle-free code implementation	Used for enhanced statistical computing and analysis, supports various data-types, open-source platform, powerful graphics, highly supportive community	Enables a high level of interactivity, fast and modern programming language, much easier to use, easy to locate and correct errors
Disadvantages	Limitations of database, slower runtime speed, high memory consumption, runtime errors	Browser support, security in the client side, single inheritance, object-oriented capabilities, lack of debugging facility	Slow and poor performance, no backup facility, provides verbose and complex codes	Run-time checking, fast and correct errors, no garbage collection, unsafe, complex	Insufficient memory management, absence of exception handling, run-time checking, lack of constructor and destructor	No support for garbage pickup, uninsured system security, can cause overload functions	New programming language with not much libraries and information, limited scope, defective dependency management	Used for enhanced statistical computing and analysis, supports various data-types, open-source platform, powerful graphics, highly supportive community	Enables a high level of interactivity, fast and modern programming language, much easier to use, easy to locate and correct errors

Guide To Programming Languages Overview And Comparison

Hussin A.Rothana

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