



BEST WEB PROGRAMMING LANGUAGES TO LEARN ON YOUR OWN TIME

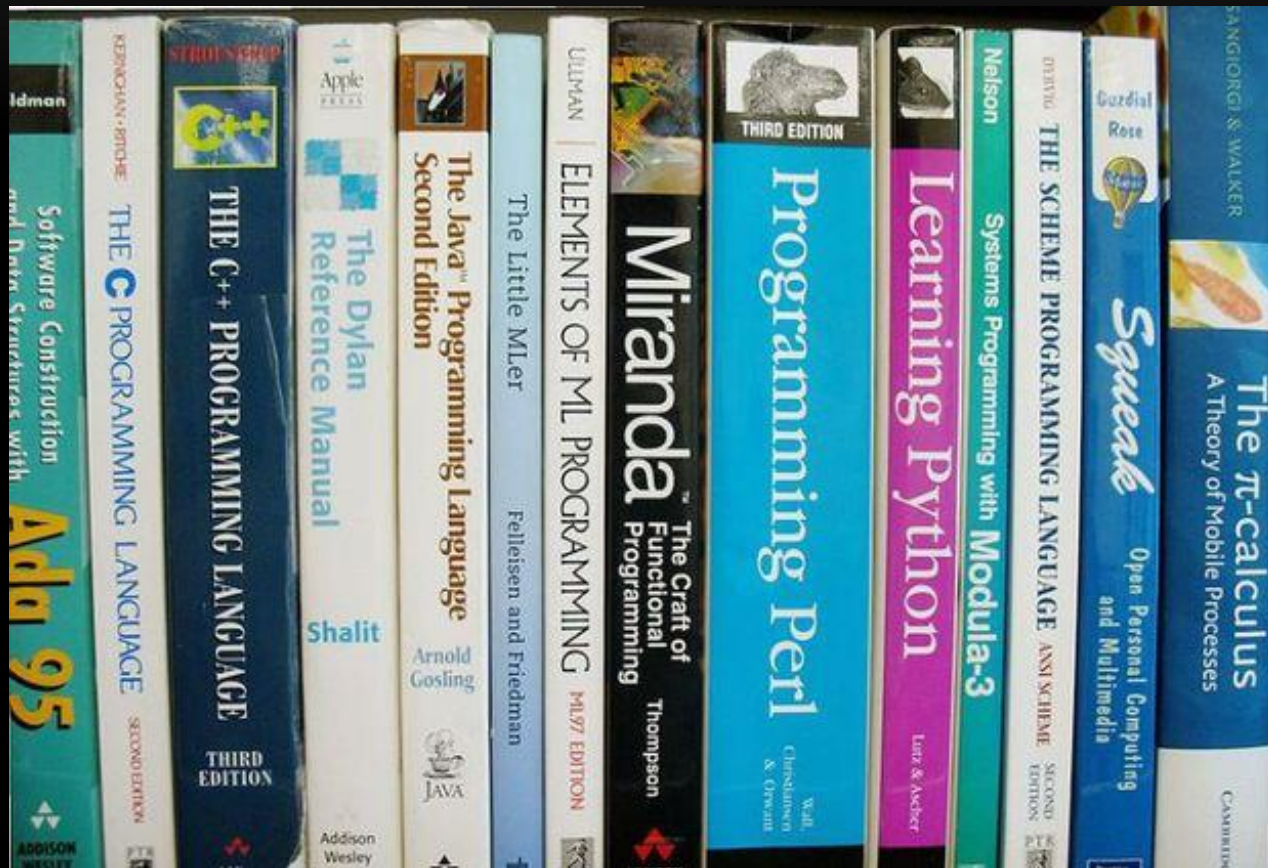
System Analysis and Design

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Fall 92

CHOOSE A PROGRAMMING LANGUAGE FOR THE PROJECT



CHOOSE A PROGRAMMING LANGUAGE FOR THE PROJECT

- Server platform (such as Windows or Unix-based OS)
- Server software (IIS: Internet Information Services for Windows and Apache for Unix-based OS and other OS)
- Programming experience
- Budget of the project
- Choice of database (SQL server, MySQL)

MOST EXTENSIVELY USED PROGRAMMING LANGUAGES SEPTEMBER 2013

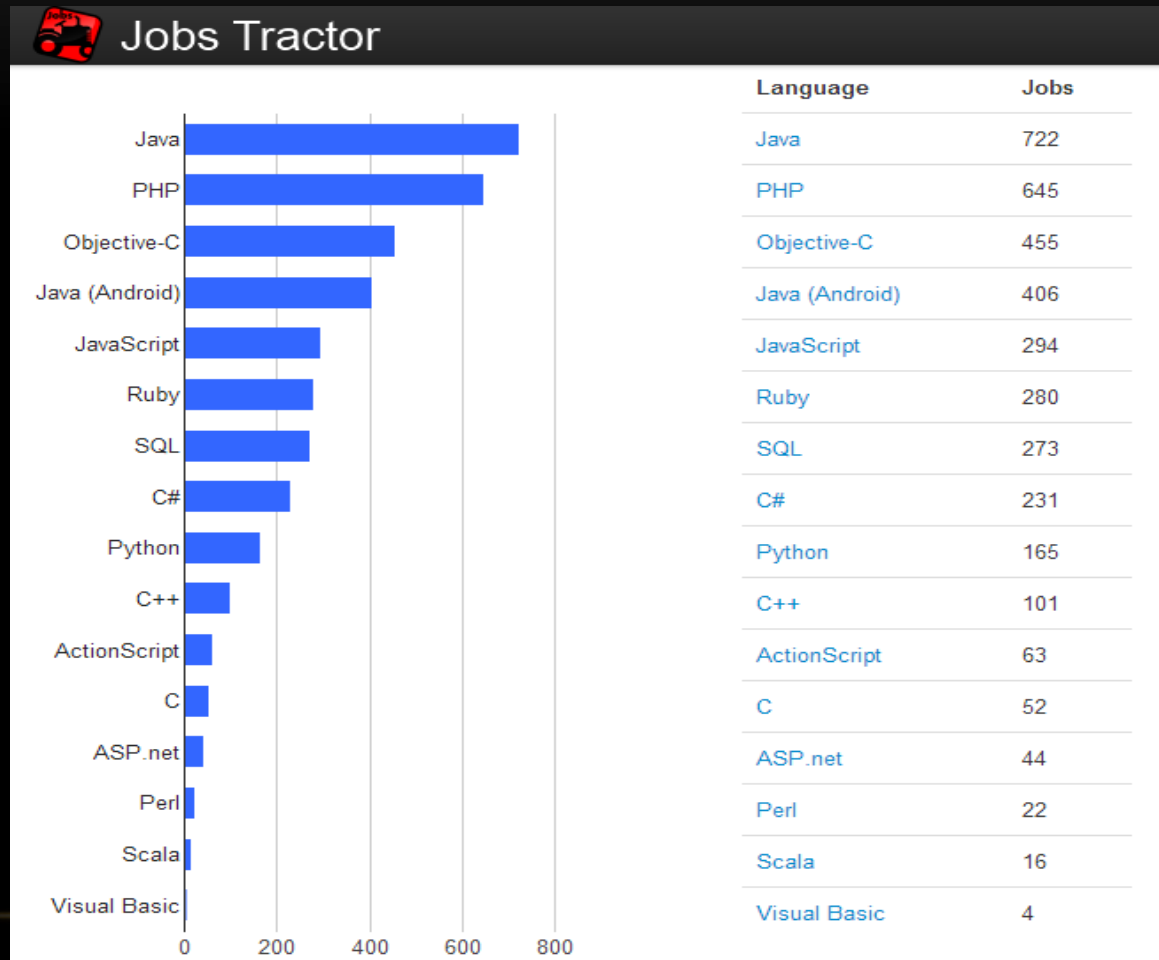
Position Sep 2013	Position Sep 2012	Delta in Position	Programming Language	Ratings Sep 2013	Delta Sep 2012	Status
1	1	=	C	16.975%	-2.32%	A
2	2	=	Java	16.154%	-0.11%	A
3	4	↑	C++	8.664%	-0.48%	A
4	3	↓	Objective-C	8.561%	-1.21%	A
5	6	↑	PHP	6.430%	+0.82%	A
6	5	↓	C#	5.564%	-1.03%	A
7	7	=	(Visual) Basic	4.837%	-0.69%	A
8	8	=	Python	3.169%	-0.69%	A
9	11	↑↑	JavaScript	2.015%	+0.69%	A
10	14	↑↑↑↑	Transact-SQL	1.997%	+1.12%	A
11	15	↑↑↑↑	Visual Basic .NET	1.844%	+1.00%	A
12	9	↓↓↓	Perl	1.692%	-0.57%	A
13	10	↓↓↓	Ruby	1.382%	-0.34%	A
14	12	↓↓	Delphi/Object Pascal	0.897%	-0.10%	A-
15	16	↑	Pascal	0.888%	+0.06%	A
16	13	↓↓↓	Lisp	0.770%	-0.20%	A
17	19	↑↑	PL/SQL	0.676%	+0.07%	A-
18	24	↑↑↑↑↑	R	0.646%	+0.21%	B
19	20	↑	MATLAB	0.639%	+0.08%	B
20	25	↑↑↑↑↑	COBOL	0.628%	+0.20%	B

Programming Language Plot Q113

RedMonk



JOBS TRACTOR LANGUAGE TRENDS SEPTEMBER 2013

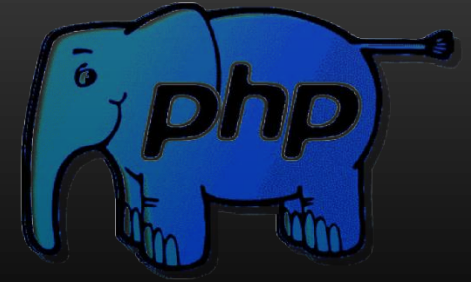


JAVA



- Sun Microsystems developed JAVA
- One of the most popular programming languages on the internet
- Open-source language
- For developing a stand-alone program as well as individual applets used in complex websites
- MVC (Model View Controller) model frameworks such as Spring and Struts
- Benefits from both object-oriented paradigms and functional programming characteristics
- Suitable for financial sector development, enterprise applications, and small software business.

PHP



- Best suited for server-side programming that includes repetitive server-tasks performed during the development of your website
- Open-source language
- Compatible with both Windows and Unix-based operating systems
- Fast-prototyping language
- Best for developing web-based applications that require maximum functionality with minimum code
- Suited for advertising apps, media, agency, small software business, and startup business owners

PYTHON



- A dynamic language which means that the developer can write and run the code without needing a separate compiler for the purpose
- Support multiple programming paradigms such as object-oriented programming, structured programming, and even functional programming
- Used as a scripting language (language supporting written programs for the special run time environment and offer automatic execution of code)
- Excellent language for scientific, academic and research level applications

.NET



- Developed by Microsoft in 2000
- A Windows based framework
- Support the Common Language Infrastructure (open specification describing executable code and suitable runtime environment for the .NET framework)
- Use different CLI languages such as C#, F#, J#, Visual Basic .NET along with numerous other languages
- An excellent framework for enterprise solutions and applications developed for the financial sector

RUBY



- Developed in the year 1993 by Yukihiro Matsumoto
- Offer a balance of functional programming along with imperative programming
- A dynamic programming language and supports multiple programming paradigms such as functional, imperative, and object-oriented model
- Quite similar to Python and offers a programmer friendly interface for development
- An excellent choice for creative designs and small business software

PROGRAMMING LANGUAGES USED IN MOST POPULAR WEBSITES

Website	Popularity (unique visitors) ^[1]	Front-end (Client-side)	Back-end (Server-side)	Database	Notes
Google.com ^[2]	1,000,000,000	JavaScript	C, C++, Go, ^[3] Java, Python, PHP	BigTable ^[4]	The most used search engine in the world
Facebook.com	880,000,000	JavaScript	PHP, C++, Java, Python, FBML, Erlang, XHP ^[5]	MySQL	The most visited social networking site
YouTube.com	800,000,000	Flash, JavaScript	C, Python, Java	MySQL	Video sharing site
Yahoo	590,000,000	JavaScript	PHP	MySQL	Yahoo is presently ^[when?] transitioning to node.js ^[citation needed]
Live.com	490,000,000	JavaScript	ASP.NET	Microsoft SQL Server	
MSN.com	440,000,000	JavaScript	ASP.NET	Microsoft SQL Server	An email client, for simple use. Mostly known as "messenger".
Wikipedia.org	410,000,000	JavaScript	PHP	MySQL, MariaDB ^[6]	"MediaWiki" is programmed in PHP; free online encyclopedia
Blogger	340,000,000	JavaScript	Python	BigTable	
Bing	230,000,000	JavaScript	ASP.NET	Microsoft SQL Server	
Twitter.com	160,000,000	JavaScript	C++, Java, Ruby, Scala		140 characters social network
Wordpress.com	130,000,000	JavaScript	PHP	MySQL	
Amazon.com	110,000,000	JavaScript	Java, J2EE, C++, Perl		
eBay.com	88,000,000	JavaScript	Java	Oracle Database	online auction house
Linkedin.com	80,000,000	JavaScript	Java, Scala		

DJANGO



- A high-level Python Web framework that encourages rapid development and clean, pragmatic design
- Build high-performing, elegant Web applications quickly
- Focus on automating as much as possible and adhering to the DRY principle
- Designed to make common Web-development tasks fast and easy

Name:	Django
Language:	Python
Require:	Python 2.3+
MVC:	✓
ORM:	✓
Auth:	✓
Cache:	✓
Validator:	✓
Ajax:	✓
License:	BSD

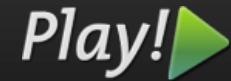
SYMFONY



- Separate a web application's business rules, server logic, and presentation views
- Contain numerous tools and classes aimed at shortening the development time of a complex web application
- Automate common tasks so that the developer can focus entirely on the specifics of an application

Name:	symfony
Language:	PHP
PHP4:	✗
PHP5:	✓
MVC:	✓
Modules:	✓
ORM:	✓
EDP:	✗
Auth:	✓
Cache:	✓
Validator:	Authentication
Ajax:	✓

PLAY



- Make it easier to build Web applications with Java
- Fix the bug and hit reload! No need to compile, deploy or restart the server
- Efficient template system A clean template system based on Groovy as an expression language
- Resolve errors quickly
- Integration with Hibernate, OpenID, Memcached... And a plugin system
- Pure Java Code with Java, use any Java library and develop with your preferred IDE. Integrates nicely with eclipse or netbeans

Name:	Play
Language:	Java
Require:	Java 5
License:	Apache

ASP.NET MVC FRAMEWORK



- One of the two different programming models you can use to create ASP.NET Web applications , the other being ASP.NET Web Forms.
- Complete control over your HTML Markup
- Enable rich AJAX and jQuery integration
- Allow you to create SEO-friendly URLs for your site
- Make Test Driven Development (TDD) easy

Name:	ASP.NET MVC Framework
Language:	ASP.NET
MVC:	✓
ORM:	✓
Cache:	✓
Validator:	✓
License:	Microsoft PL

CHOOSING A LANGUAGE FOR YOUR PROJECT

- Important to understand that no language is perfect in itself
- Best to consider your requirements and choose a program accordingly
- Reevaluate your programming requirements before choosing a language for your project