Protocol Buffers

return to the de facto Standards bodies

Source: The following is from Google "Protocol Buffers " site

> *Protocol buffers are Google's language-neutral, platform-neutral, extensible mechanism for serializing structured data – think XML, but smaller, faster, and simpler. You define how you want your data to be structured once, then you can use special generated source code to easily write and read your structured data to and from a variety of data streams and using a variety of languages.*

Table 1: Data Sheet for Protocol Buffers.

Characteristic	Value
Paradigm	Multi-paradigm: concurrent, functional,[1] imperative, object-oriented [2][3]
Typing	Inferred, static, strong, structural[4][5]
Original author(s)	Robert Griesemer, Rob Pike, Ken Thompson
Developer	The Go Authors[6]
Initial release	10 November 2009
Stable release	1.12.5 / May 6, 2019;[7]
Repository	git.kernel.org/pub/scm/git/git.git/
Written in	Go, assembly language (gc); C++ (gccgo)
Operating system	DragonFly BSD, FreeBSD, Linux, macOS, NetBSD, OpenBSD,[8] Plan 9,[9] Solaris, Windows
Available in	English
Type	Version control
License	BSD-style[10] + patent grant[11]
Website	https://golang.org/

1)
"First-Class Functions in Go". Retrieved November 14, 2018. Go supports ... a functional programming style in a strongly typed language.

2)
Is Go an object-oriented language?". Retrieved April 13, 2019. Although Go has types and methods and allows an object-oriented style of programming, there is no type hierarchy.

3)
"Go: code that grows with grace". Retrieved June 24, 2018. Go is Object Oriented, but not in the usual way.

4)
"Why doesn't Go have "implements" declarations?". golang.org. Retrieved October 1, 2015.

5)
Pike, Rob (December 22, 2014). "Rob Pike on Twitter". Retrieved March 13, 2016. Go has structural typing, not duck typing. Full interface satisfaction is checked and required.

6)
Text file LICENSE". The Go Programming Language. Google. Retrieved October 5, 2012.

7)

“Release History - The Go Programming Language”. Retrieved April 19, 2019.
8)

“lang/go: go-1.4 – Go programming language”. OpenBSD ports. December 23, 2014. Retrieved January 19, 2015.
9)

“Go Porting Efforts”. Go Language Resources. cat-v. January 12, 2010. Retrieved January 18, 2010.
10)

Text file LICENSE“. The Go Programming Language. Google. Retrieved October 5, 2012.
11)

Additional IP Rights Grant”. The Go Programming Language. Google. Retrieved October 5, 2012.

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