

The History and Evoultion of PHP and Web Development

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Chapter 1

Intro

1.1 Preamble

I will be exploring the evolution of web development and PHP from its humble beginnings as some C based cgi script though till today.

I will also explore some other languages that have been prevalent in the evolution, expansion and dominance of the web in our everyday life.

I'm searching the web and asking people gathering information about the evolution of web development but more so the evolution of PHP.

1.2 About the Author

I've developing and writing web applications since 2008 mostly in PHP but I've work with Perl, Ruby and sadly that evil thing we call .NET

My intrigue for web development and programming come from me asking myself the question 'How does the web work? How can I make something cool? How does facebook work?'.

So I started the way many people do which is static HTML. . . Which is cool for a week, then your like 'There has to be an easier way?'. Easier way === PHP, PHP 4 to be exact. Lets just say I don't miss those days.

Nowadays I'm an advise opensource developer and contributor, mostly to PHP projects. Although I'm knowledgable in many different languages such Perl, Ruby, Python, Javascript, C++, Lua. . . The list goes on.

But for the purposes of this document I will be focusing mainly on PHP but will hit on some Perl (because it's awesome), Ruby, maybe some Python and some Javascript, node.js.

Chapter 2

The Web - Early Days

From the days of the Gopher protocol and text based browsing to graphical interface and HTML/HyperText. The early 1980's and though to the mid 1990's the progression from terminal based text browsers to Netscape Navigator & Internet Explorer (evil).

The World Wide Web (good old www) invented & developed by Sir Tim Berners-Lee in 1989 at CERN and also created the worlds first website, info.cern.ch[1, 2]. But as most of us know the web is nothing without a protocol to deliver the content, no worries the Sir Tim Berners-Lee also create the tools that really made the web such as the HTTP protocol (HyperText Transfer Protocol), HTML (HyperText Markup Language), the first web browser called World Wide Web and don't forget about the first HTTP server[3].

For more info about the world first website: <http://info.cern.ch/>.

If your like me your probably wondering how did we go from the worlds first website to the websites of today...

2.1 The Birth of CGI (Common Gateway Interface)

The birth of CGI finally gave us away of run a program/script on a web server and then render the output of these scripts and send it back to the client. The language of choice back when CGI was released in 1993[4] was Perl.

2.2 Perl on the web

Perl is a widely used general purpose scripting language. Initial developed by Larry Wall in 1987 for scripting on Unix systems.

Perl 5 become popular in the late 1990's as a CGI scripting language. Perl 5 was released in late 1997, one thing that made Perl even popular for web development was the creation of CGI.pm.

CGI.pm is a Perl module that provides an api for creating CGI (Common Gateway Interface) web applications.

2.2.1 Example Perl CGI Script

```
1 use CGI ':standard';
3 print header,
    start_html('A Simple CGI Page'),
5    h1('A Simple CGI Page'),
    start_form,
7    'Name: ',
    textfield('name'), br,
9    'Age: ',
    textfield('age'), p,
11   submit('Submit!'),
    end_form, p,
13   hr;
15 print 'Your name is ', param('name'), br if param 'name';
    print 'You are ', param('age'), ' years old.' if param 'age';
17 print end_html;
```

2.3 Early PHP

PHP was created in 1994 by Rasmus Lerdorf and was original a set of C CGI (Common Gateway Interface) binaries these were known as "Personal Home Page Tools" or "PHP Tools".

In 1995 Rasmus release the source for PHP Tools so it could be freely used and developed by others.

Chapter 3

The rise of server side languages in the web

From 1993 with the release of the Common Gateway Interface (CGI) to the early 2000's many new programming languages most scripting languages were born such as PHP, Python, Ruby and also new versions of those Languages. Here is a list of release years[4]:

- 1993 - Common Gateway Interface
- 1994 - Perl 5 (still going strong after 19 years) & Python 1.0
- 1995 - PHP 2 (Known at the time as Personal Home Page), Ruby
- 1996 - ASP 1.0, Python 1.4 * 1998 - PHP 3, Java Servlet 2.1
- 1999 - Java Servlet 2.2 * 2000 - PHP 4, ASP 3.0, Python 2.0
- 2001 - Java Servlet 2.3, Python 2.2 * 2002 - ASP.Net 1.0 (Evil)
- 2003 - ASP.Net 1.1 (Still Evil), Java Servlet 2.4, Python 2.3
- 2004 - PHP 5, Ruby on Rails 0.5.0, Python 2.4
- 2005 - ASP.Net 2, Java Servlet 2.5, Python 2.5, Ruby on Rail 1.0.0
- 2006 - Ruby on Rails 1.1.0
- 2007 - ASP.Net 3.5, Ruby on Rails 1.2.0

As you can see in the time line above the whole web exploded on to the scene in a big way in 1993.

Bibliography

- [1] Wikipedia - History of the Internet
- [2] Cern
- [3] Wikipedia - History of the World Wide Web
- [4] Royal Pingdom - A history of the Dynamic Web
- [5] Wikipedia - Perl CGI.pm
- [6] Wikipedia - Perl