



A short talk to introduce the Perl programming language and its culture.

#### Adam John Trickett

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#### History

- Perl is a programming language created by Larry Wall on 18 December 1987
- Perl 5 released on 17 October 1994
  - Perl 5.10.0 released 18 December 2007
  - 5.12 ... 5.14 ... 5.16 ... 5.18
  - Perl 5.20.0 released 27 May 2014
- Perl 6 before xmas 2015...



#### **Perl's Parents**

- Perl is a language that unashamedly takes ideas from other languages, including its self...
- awk/nawk
- sed
- shell
- C
- Lisp
- Haskell & Ruby



#### **Compiled or Interpreted?**

- Perl source code is compiled very quickly into a syntax tree
- The syntax tree is automatically optimised
- Finally the optimised syntax tree is executed

• Perl is compiled and interpreted just like other modern languages such as Java.



#### "hard tasks easy and seriously non-trivial tasks possible"

- Perl is designed to make life easy for the programmer
- Autovivication of variables
- Dynamic typing
- Automatic memory management
- Hashes
- Procedural, object-oriented or both
- Many, many built-in convenience features







#### **Hello World**

#### print 'Hello World'



#### **Hello World MK-2**

#!/usr/bin/perl

use strict; use warnings;

my \$greeting = "Hello World\n";
print \$greeting;
exit;



#### **Hello New World**

#!/usr/bin/perl
use 5.01;
use strict;
use warnings;

my \$greeting = 'Hello World'; say \$greeting; exit;



#### **Scalars**

- Are not typed, can hold a number, string, or reference
- Perl will automatically cast between types for you

```
$var1 = 'this is a string';
```

```
$var2 = 23.5;
```

\$var3 = \$var1 . \$var2;

say \$var3

```
this is a string23.5
```



#### **Arrays & Lists**

- Lists are just a list of scalars, lots of built in commands generate or process lists
- You can put a list into an array to store it

```
earray = (1,2,'three');
```

```
say $array[2];
```

#### three

```
$var4 = shift @array;
```

```
say $var4
```



#### **Hashes**

- Hashes are special arrays that use keys rather than numbers to access them
- They are VERY fast but the order is not predictable
  - but there are fast sorting tools

%hash = ( 'k1' => 'v1', 'k2' => 'v2' );
say \$hash{'k1'};
v1





# 

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#### **Perl's Strengths**

- Expressive language
  - There Is More Than One Way To Do It
- Popular
- Easy



#### **Perl's Weaknesses**

- Expressive language
  - There Is More Than One Way To Do It
- Popular
- Easy



# Getting

### 

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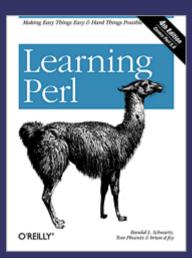


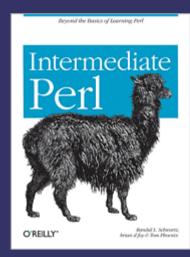
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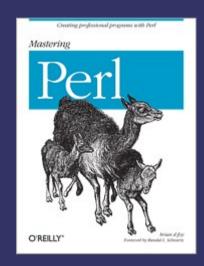
- Perl Training Australia:
  - http://perltraining.com.au/notes.html
- Ovid's CGI Course:
  - http://ovid-cgi-course.perl-begin.org/cgi-course/
- Learn.perl.org:
  - http://learn.perl.org/
- On-line Documentation:
  - http://perldoc.perl.org/
- Randal's Perl Columns:
  - http://www.stonehenge.com/merlyn/columns.html

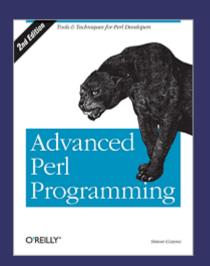


#### Some Books

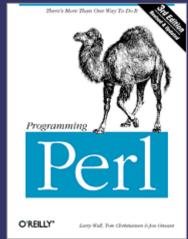








#### http://books.perl.org/







#### Comprehensive Perl Archive Network

- Over 25,000 modules
- A module for every imaginable task:
  - Web/CGI
  - Databases
  - SAP
  - MP3/Oggs
  - Time/Dates
  - Templating
  - and much much more!







- Global system with mirrors worldwide
- PAUSE
  - Perl Authors Upload SErver
- RT
  - Request Tracker
- CPAN testers & CPANTS
- Search/Meta Search
  - Two Web Based Search engines



#### **Killer Modules!**

- <del>CGI</del>
- DBI
- Template
- CPAN
- Apache mod\_perl
- File::Find::Rule
- LWP/WWW::Mechanize
- MVC/ORM



#### **Some Community Sites**

- PerlMonks:
  - http://www.perlmonks.org/
- Perl Blogs:
  - http://blogs.perl.org/
- Perl Foundation:
  - http://www.perlfoundation.org/
- Perl Mongers:
  - http://www.pm.org/



#### **More Sites**

- Perl 5 Wiki
  - https://www.socialtext.net/perl5/
- {Perl School}
  - http://perlschool.co.uk/
- Enlightened Perl Organisation
  - http://www.enlightendperl.org/



#### Meetings

- OSCON Open Source Conference
  - Originally Perl only, now everything open-source
  - Expensive
  - http://conferences.oreillynet.com/
- YAPC Yet Another Perl Confernce
  - Still just Perl
  - Cheaper
  - http://www.yapceurope.org/



#### **Smaller Meetings**

- PM Workshops
  - London.PM Workshop every winter
- PM TechMeets
  - London.PM and ThamesValley.PM
- Perl Birds of a Feather "BOF" meetings
  - LUGs
- Perl tracks/streams at other meetings
  - FOSDEM



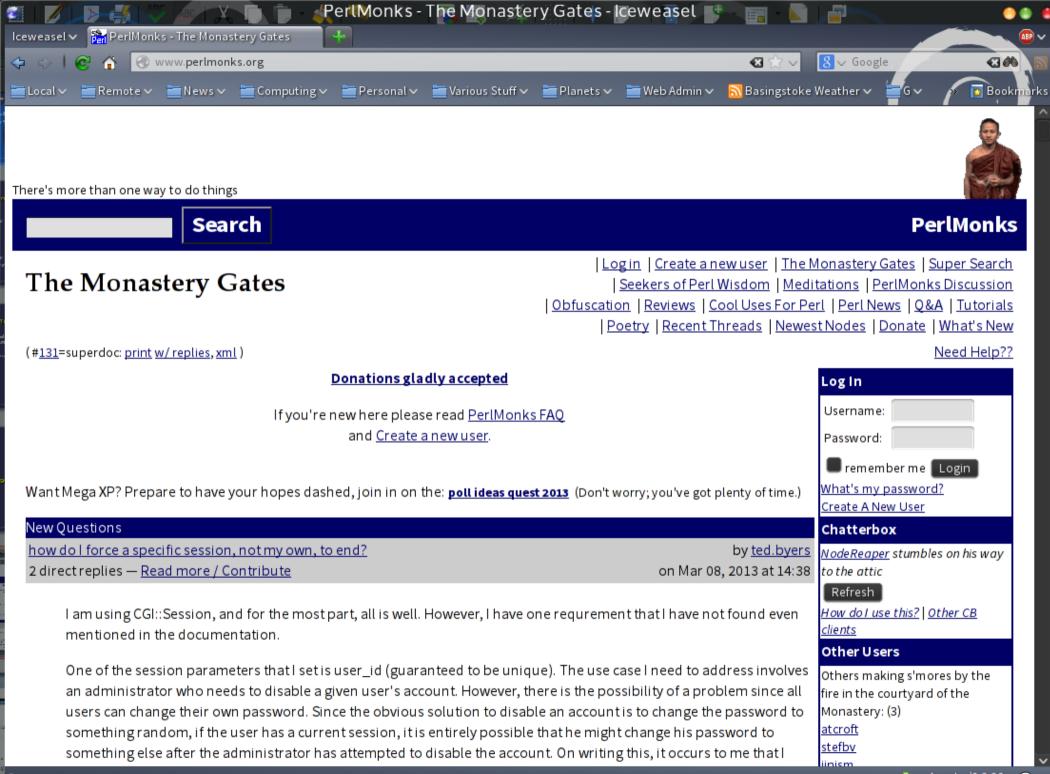
#### More Links...

- http://www.cpan.org/
- http://search.cpan.org/
- http://metacpan.org/
- http://rt.cpan.org/
- http://pause.perl.org/
- http://jobs.perl.org/
- http://cpants.perl.org/
- http://perldoc.perl.org/
- http://www.perl.com/



## Some Screen Shots of Sites

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Perl.com news and views of the Perl programming language

#### Perl Today (February 2014)

By brian d foy on February 10, 2014 6:00 AM



brian d foy is the author of <u>Mastering Perl</u>, now available in its second edition, as well as several other Perl books. As the founder of Perl mongers, he's been active in the Perl community for almost 20 years.

Perl's so big now that it's almost impossible to pay attention to everything going on. Instead of reading the thoughts of me, just one person, on the current state of Perl, why not gather several major players who can cover many areas that you may not have noticed? I've collected some voices from parts of the large and diverse Perl community to highlight a small fraction of

everything going on, from community development, hard core coding, the job market, and various problem domains. Although not definitive, their combination makes a good summary.



Randal Schwartz is the original author of Programming perl and Learning Perl, along with numerous other Perl credits. He's the current host of FLOSS Weekly

Perl started as a Unix shell replacement to help sysadmins get more productive with less risk and a flatter learning curve (you didn't have to learn the quirks of dozens of small utilities, just the quirks of One Larry Wall).

But then along came the web, and "scripts" could be used to provide interactive web pages, and Perl became the darling language of the web, first with "cgi-lib.pl", and then with <u>CGI.pm</u>, and later with larger frameworks like <u>Mason</u> and <u>Catalyst</u>.

Of course, Perl's scripting abilities also matured, and the ability to scale Perl programs with modern testing and 00 frameworks (like <u>Moose</u>) empowered programmers to write 10-line scripts and 100,000-line applications using the same core language features: a distinctive advantage.

Perl 5 development stagnated a bit, trigging the whole <u>"Perl 6"</u> revival, and the relationship between Perl 5 and Perl 6 is still not understood by most people outside the direct Perl community (nor even by some who are "in" the community). But with the establishment of the quarterly point release, and the annual major releases, Perl 5 seems to have gotten firmly back in the saddle of modern development again. And while Perl 6 continues to be developed and redesigned, parts of it are already quite useful for early adopters.



Karen Pauley was a founding member of the Belfast Perl Mongers, a volunteer with the YAPC Europe Foundation, and is the President of The Perl Foundation.

For me, Perl is a reason for creating community systems to support Perl itself. <u>The Perl</u> <u>Foundation</u> doesn't write the Perl language, we don't influence its direction; instead we work with the Perl community to organize funding, volunteers, marketing, and legal counsel.

#### Visit the home of the Perl programming language: <u>Perl.org</u>

Download

Documentation

Perl Bloggers

Foundation News

Sponsored by

#### Tom Christiansen Perl Training

**Recent Entries** 

Perl Today (February 2014)

The Year in Perl 2013 Retrospective

Enable Backtraces with Carp::Always (Modern Perl Tips)

Lexing and Parsing

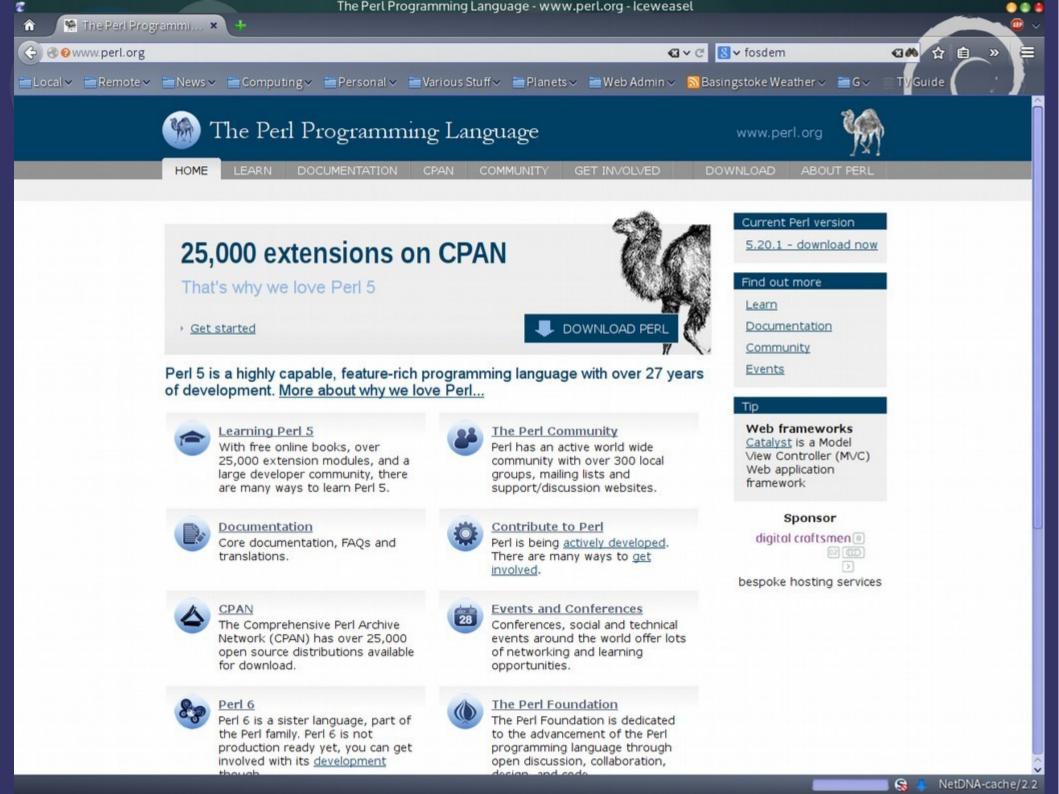
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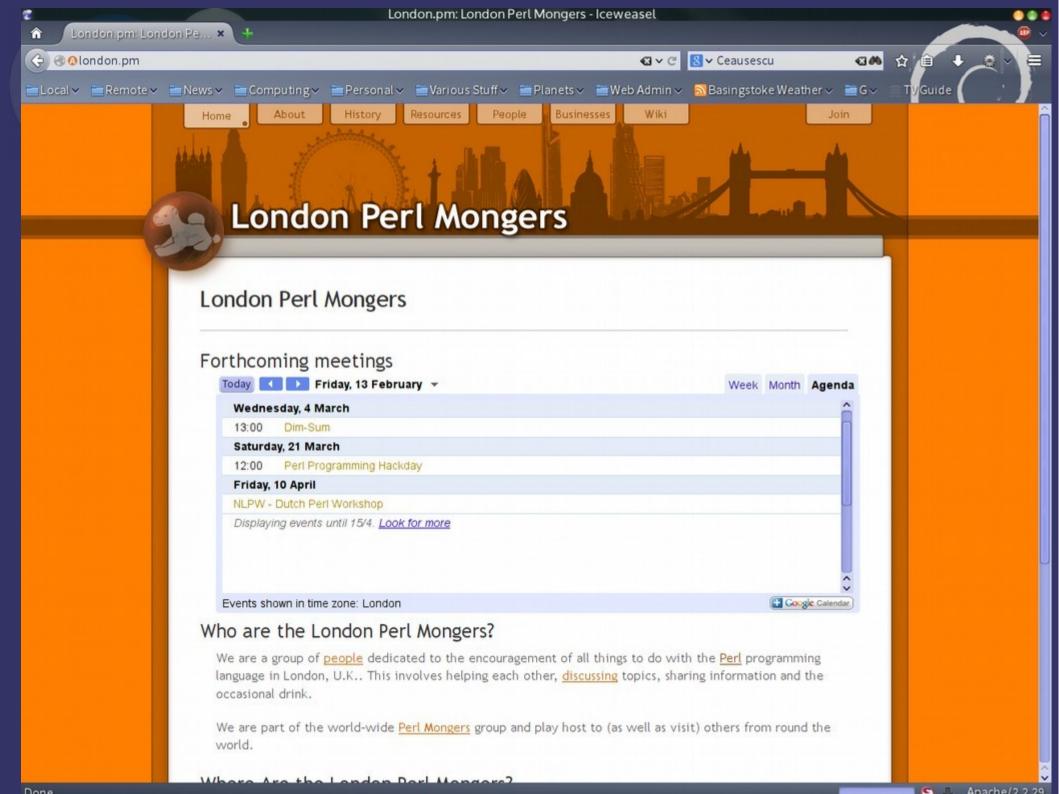
Consuming REST ful Services with Perl

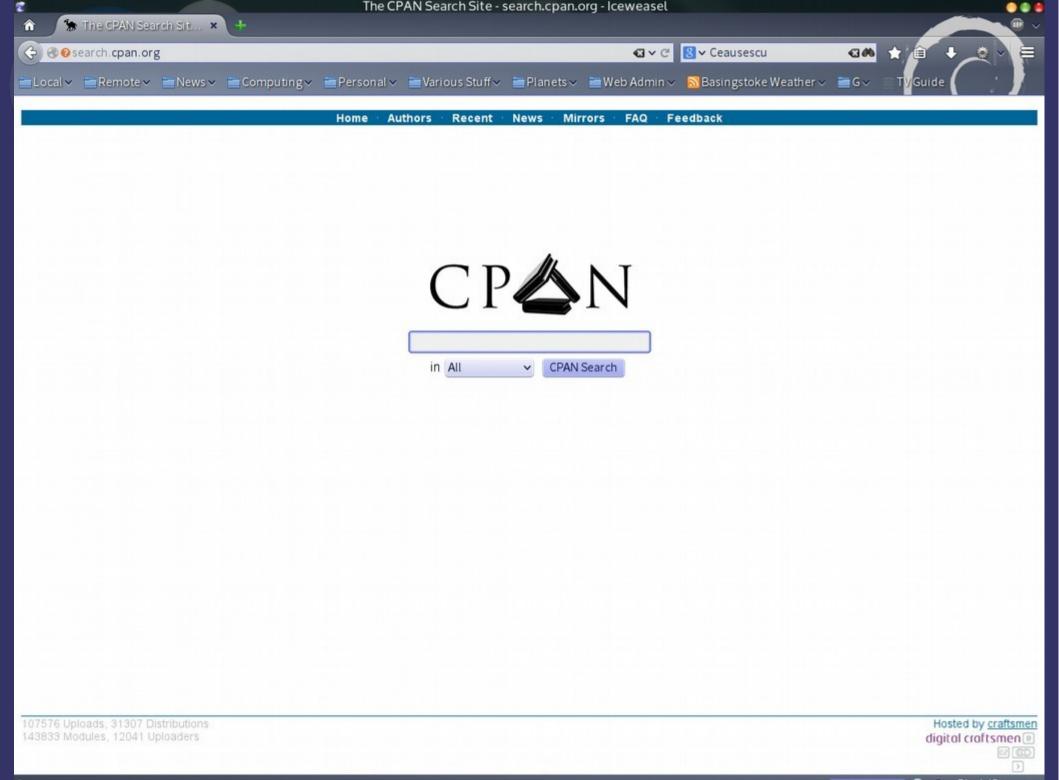
Designing Board Games With Perl

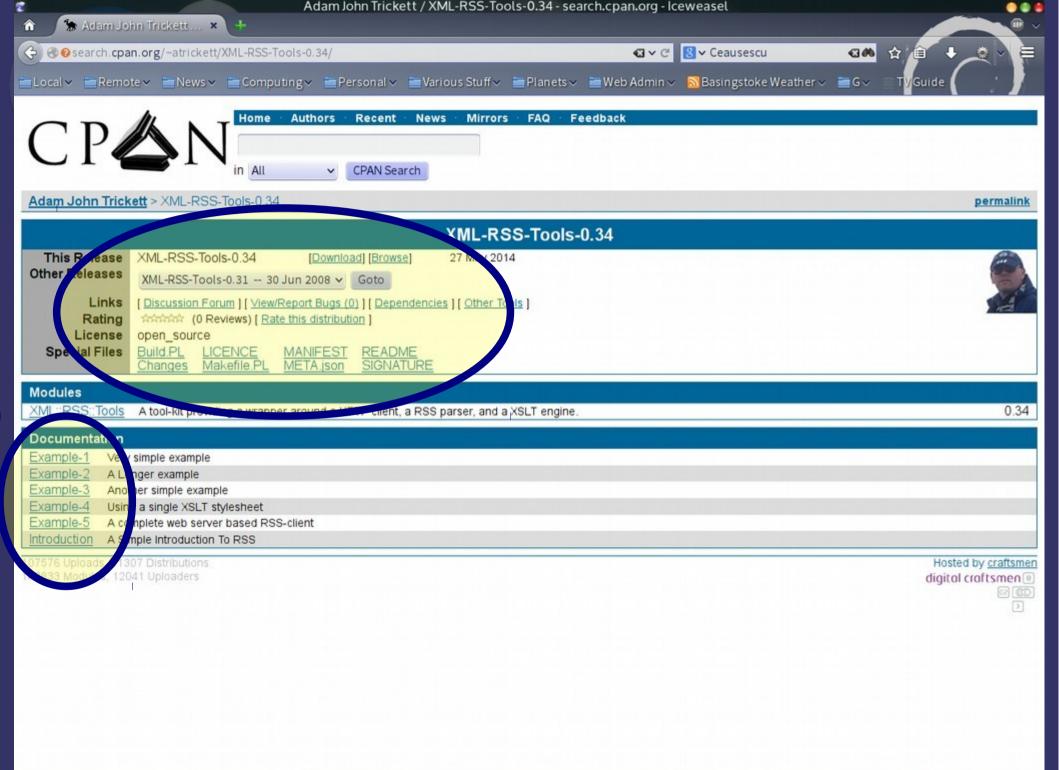
Newcomer Experience in the Perl Community Survey

An Overview of Lexing and Parsing









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- General
- CPAN (Comprehensive Perl Archive Network)
- News & Discussions
- Perl Culture
- Who Uses Perl?
- Perl for your career
- How to Find More Information
- Introductory/General
- Intermediate
- About This Wiki
  - What Goes On This Wiki?
  - What Does Not Go On This Wiki?

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Attachments

page yet.





#### GFU Cyrus AG is sponsoring the QA Hackathon

By tinita on February 13, 2015 12:12 AM

We're happy to announce that GFU Cyrus AG will sponsor the Perl QA Hackathon 2015.

Originally founded as GFU Cyrus + Rölke mbH in 1980, GFU Cyrus AG is now one of the best-known IT training companies in Germany.

Several thousand IT specialists from all over the Federal Republic of Germany visit seminars at GFU every year. The program includes more than 1000 different seminars.

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#### STRATO is sponsoring the QA Hackathon

By Neil Bowers on February 10, 2015 9:30 PM

We're happy to announce that STRATO has decided to sponsor this year's QA Hackathon.

If you live in certain parts of Europe then you will probably have heard of STRATO, but others might not. STRATO is an ISO 27001-certified hosting provider with its headquarters in Germany. STRATO offers domains,



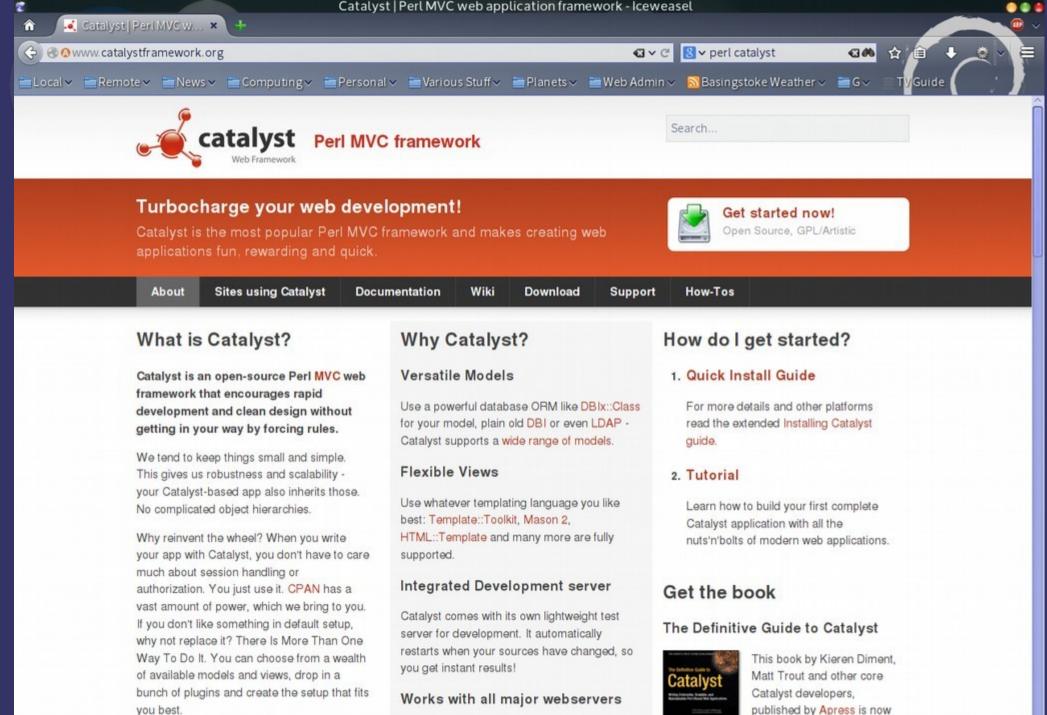
email and homepage packages, online storage, web shops and servers through to high-end solutions.

#### About blogs.perl.org

blogs.perl.org is a common blogging platform for the Perl community. Written in Perl and offering the modern features you've come to expect in blog platforms, the site is run by Dave Cross and Aaron Crane, with a design donated by Six Apart, Ltd.

#### Search blogs.perl.org

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Many high-profile sites like the BBC iPlayer, 123people, magazines.com and urhis de are already using Catalyst Chock

Catalyst 5.9 has native PSGI/Plack support which makes deployment for most webservers a no-brainer. Plus, there are loads of engines



published by Apress is now available for purchase from Amazon.com, or get the eBook (PDF) from Apress.

> S J. Apache/2.2.9



## What is Dancer?

Dancer is a simple but powerful web application framework for Perl.

## Key features

- Dead Simple Intuitive, minimalist and very expressive syntax.
- Flexible PSGI support, plugins and modular design allow for strong scalability.
- Few dependencies Dancer depends on as few CPAN modules as possible making it easy to install.

### Prepare your moves... and dance!

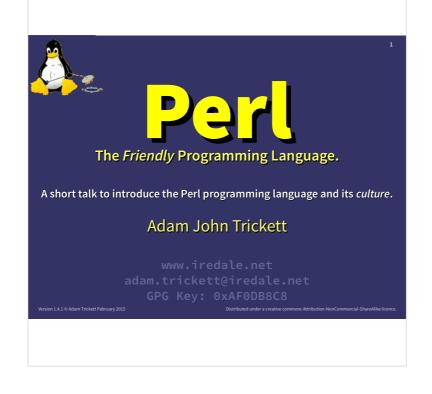
Dancer has been designed as a Perl web framework which is easy and intuitive to get to grips with - this is how easy it can be:



S .

Perl





Hi!

This is a little talk about Perl. It's not really a talk about the language much, but about the culture around it and where to begin if you want to avoid some of the pitfalls.



Perl is old but still very much alive.

Current Perl started with version 5, but modern Perl really started with the more recent 5.10 in 2007.

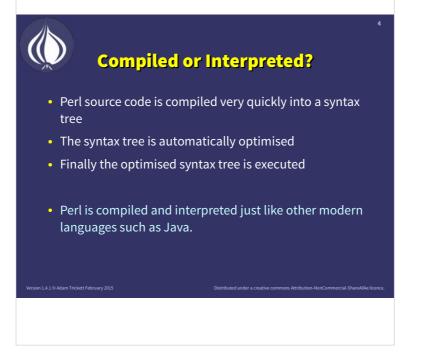
Current versions of Perl 5 are released in a time based manner and an enormous under the covers clean up has taken place over the years, prolonging the useful life of the core engine

Perl 6 was first talked about in 2000, but has taken on a life of its own, and the general joke is that it would be released for xmas – though which one was never specified. This year it was announced that a beta would be released this year and "1.0" release would arrive by xmas 2015... Perl 6 is a different language and I'm not going to talk about it.



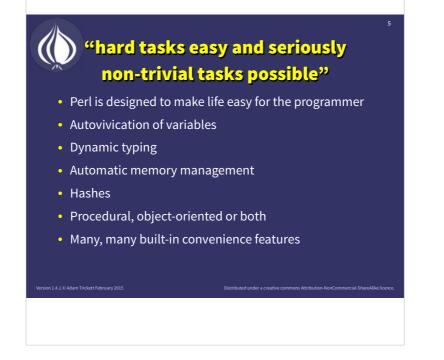
Perl doesn't care where good ideas come from, so it sucks in ideas from all over the place.

It is really a high level language at heart, so it pulls in a lot from shell, with the text processing abilities from sed and awk. To make it more powerful than these more basic scripting languages it pulled in ideas from c and Lisp, and more recently from Haskell and Ruby, Perl 5 even includes ideas from Perl 6...



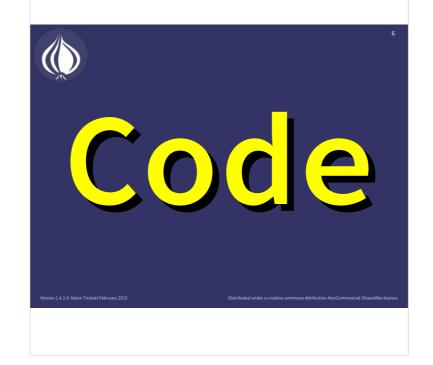
Perl is designed to get results as quickly as possible, so it trades pure run time speed for ease of use. It's not an interpreted language like old style BASIC nor is it a pure compiled language.

Llike Java it's converted and optimised into an intermediate language and that is the one that's run through the core engine.



Perl trades CPU cycles and RAM for ease of use and getting the job done. It is not designed for highly restricted spaces or roles.

Generally speaking programmer time is expensive and computers are not, so Perl is optimised for easy prototyping, debugging and getting an answer, not using the least resources possible.





Here is hello world, safe it as a text file and send it to the Perl interpretor. Should work on any Unix, Linux, Mac OSX and even Windows box with the right bits added.

It's not much use on it's own.



The first line is for Unix like systems, Perl doesn't actually need it.

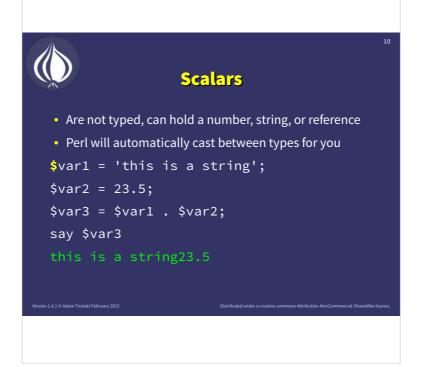
The "use" command tells Perl to load something already written into this program. This pair are a good idea but not required on the very simple programs you can write.

We then create a scalar variable and assign something to it. We then print it out and finally we end.



This version uses the new features that came out with 5.10. If you try to run it on an older version it will complain that it's too old rather than crashing in a heap. The say command is shorter than print and automatically adds an end of line for you.

There are lots of other things in 5.10 but you need to tell Perl to use them or you won't have access to them.



Perl's most basic variable type is a "scalar", which holds a single thing, it could be a number, a character, a string of characters, a reference to something else, or a file handle.

You can name then most things, but they always begin with a dollar, a modified S for scalar.

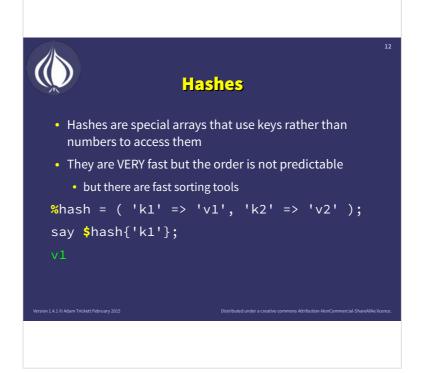


Perl's next type is a list, which is just that, it's a collection of things, they don't have to be the same kind of things, so each value in the list could be as with a scalar one of many things. Lots of functions work on lists, return lists or expect lists.

An array is a named thing that holds a list, and it is named with an at symbol, @ for array.

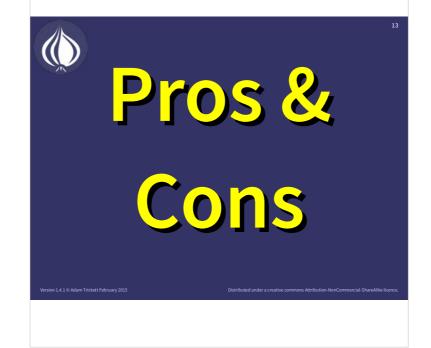
To access an individual element of an array you use an index number, but now the symbol changes to a dollar as you are accessing a single value.

@foo is an array
\$foo[3] is the scalar at index 3 (starting from 0)



Hashes are a fancy kind of array, where you don't access the value with a number but you use a named key. Perl has very clever hashing software which means you can have an hash of millions of things but still get to the one you one almost instantly. All that matters is that your keys are unique. The order in the hash is not preserved, so there are fast sorting tools allowing you to sort by key or value ascending or descending. The % is used to name a hash, but as with an array, the \$ is used when you refer to a single element.

Hashes are used for lots of things because they allow you to create complex multidimensional objects.





Perl is a highly expressive language, which makes it popular with creative people. People revel in the ability to solve problems in many different ways and styles. Many Perl hackers are proud of "TIMTOWTDI", it is something engrained into the culture.

In the early days of the WWW, Perl was extremely popular, even today lots of things are written in Perl.

Perl is also very easy to learn like most of the other high level scripting languages.



Sadly because Perl is expressive there are lots of ways to solve a given problem, often most of the solutions are inefficient or insecure.

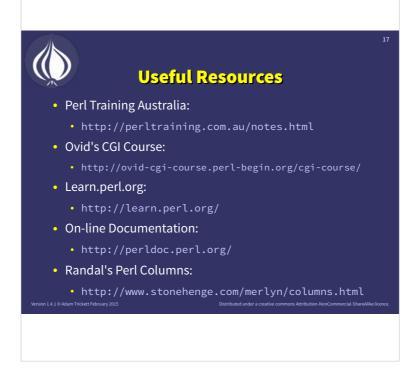
Too much choice can put people off, new users in particular can feel intimidated

Being popular can create a situation where lots of unqualified but keen people can dominate the blogsphere comment space, often repeating the same bad/wrong advice

Having a reputation for being easy can attract people how aren't prepared to work.

Perl has suffered from a lot of "Cargo Cult" programming that is bad and sometimes downright dangerous, and needs to be avoided.



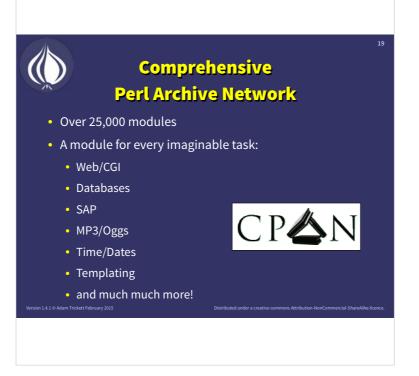


There are lots of resources on the web. Some of them are more trustworthy than some of the others. The sample here are some from people who are respected in the community, work in the community and write books for the community.



There use to be lots of very bad Perl books, they are less common now, but I've listed the canonical set here that are recommended by most reputable instructors and often.

On the perl.org web site there are some additional books that are also available free to download of the internet



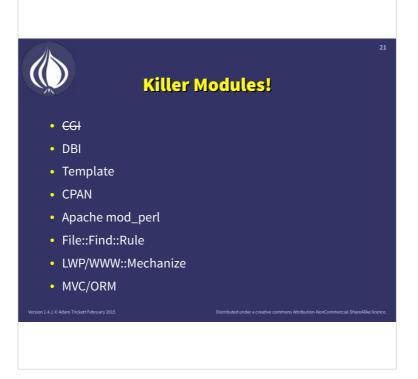
One of Perl's great strength is that many coders give away bits of their programs, normally in the form of modules. They come in different flavours, simple procedural code, object oriented code and some with complicated bits done in other languages such as c.

Generally speaking you want to avoid re-inventing the wheel if you can and use an existing module.

Other languages may have archives, but Perl's is the definitive one that they are based on.



CPAN is more than just a collection of reusable code, it has a load server, is connected to bug & request tracking, has testing, quality assurance, dependency checking and search capability. On its own CPAN would be pretty dull, it's the rich greater-CPAN than gives it its strength.



Some modules are very powerful and used by lots of people and lots of other modules. These are some.

I've left CGI.pm on the list, even though it's depracated and you shouldn't use it in new code, but it is very popular and still widely used.

In the Model-View-Controller space, there are several options, of which Catalyst is very powerful and commonly used.

If you are interested in the Internet of Things, then look at Dancer2 which is a very snazzy all in one web server, database and programming framework.



Like all things it's best to find your community, as asking the right people will get you the right answers faster than thrashing about.

Some of these groups hold meetings, like the mongers and are a good opportunity to meet and greet.



#### **More Sites**

- Perl 5 Wiki
  - https://www.socialtext.net/perl5/
- {Perl School}
  - http://perlschool.co.uk/
- Enlightened Perl Organisation
  - http://www.enlightendperl.org/



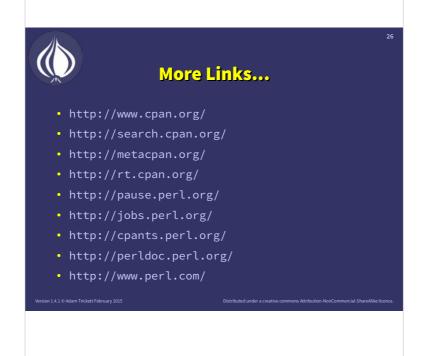
There are big mega meetings, OSCON in the US is the most famous, it started life as a Perl meeting but now does everything else as well.

YAPC is the main Perl only meeting, there are large continental scale ones each year, plus smaller regional ones as well. A lot cheaper than OSCON, but still costs you something.



The various PM groups run workshops and smaller meetings, London has had one in Winter for over a decade now, they are free and well worth attending if you can.

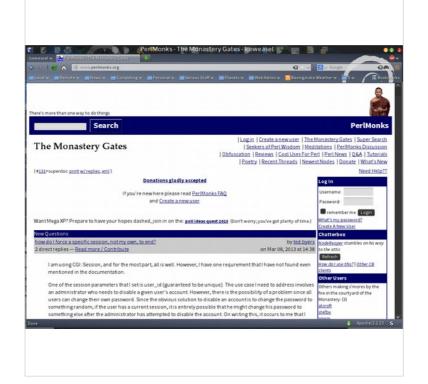
Most PM groups run social and technical meetings as well. Perl also comes as BOF at other groups and track/streams at other meetings, e.g. FOSDEM



Copies of the links I may have already mentioned.



Some visual stuff.



Perlmonks is the main social Q&A site. It's boisterous but there are good people there and if you are careful and ask your question you'll get some good answers.

DO NOT ask for homework solutions or show zero input or you'll get shot down.

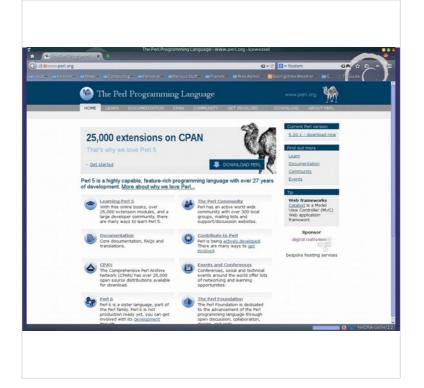
It's best to join and watch for a few days before asking a question and looking foolish.

There are no wrong questions, but many of them have already been answered, so it's worth using the search features first.

Site: perlmonks.org



Perl.com is a commercial site that promotes Perl. There is nothing wrong with it, but it's not the real home page.



Perl.org is the real community home, it has more links and a lot of other services hang of the domain.



London.pm a near by group that is large and noisy, good people.

There is also the the Thames Valley Perl Mongers and the Southampton Perl Mongers

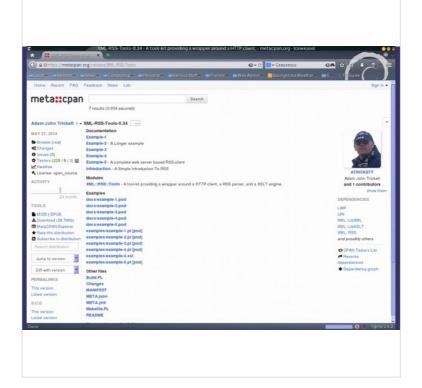


CPAN, Google style...

Site: search.cpan.org

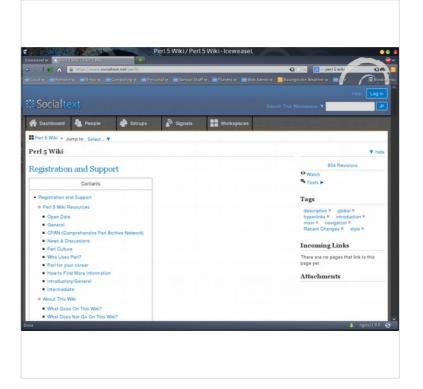


# My stuff on CPAN



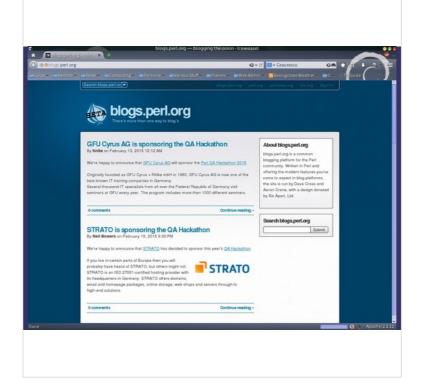
Meta::cpan, and alternate search engine.

Site: metacpan.org



Perl5 wiki

## Site: www.socialtext.net/perl5



# Blogs for perl

Sites: blogs.perl.org



# Catalyst

## Site catalystframework.org



Dancer

Site: perldancer.org

