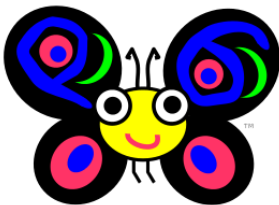


☺ Perl 6 ☺
is out for your enjoyment

Ingo Blechschmidt

32th Chaos Communication Congress

December 30th, 2015



Perl 6, genau jetzt!

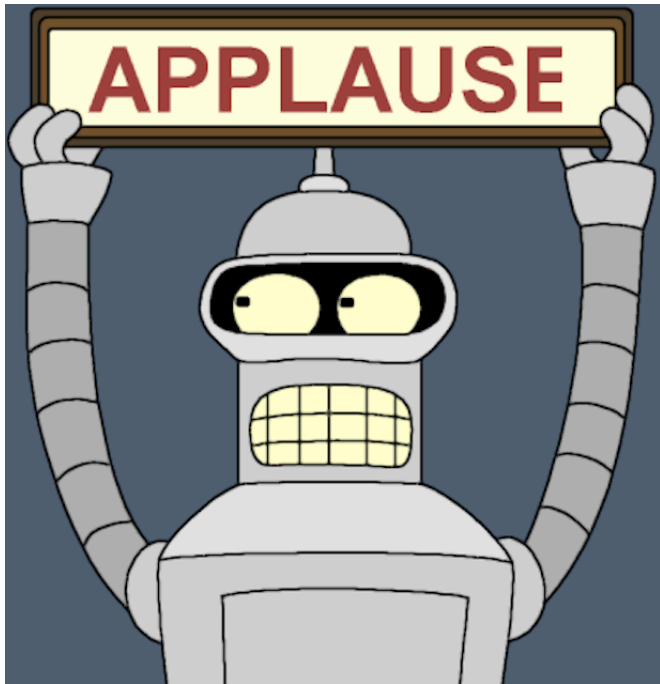
Ingo Blechschmidt
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Augsburger
Linux-Infotag 2006





APPLAUSE



Basic control flow and operators

```
1 my $name = prompt("What's your name?");
2 say "Hello $name!";
3 # or: "Hello $name!".say;
4
5 for 0..3 -> $i {
6     say "Day $i of congress was great!";
7 }
8
9 say "1 * 2 * 3 * 4 * 5 * 6 is:";
10 say [*] 1..6;
11
12 say (1,2,3) >>+<< (4,5,6); # (5 7 9)
```

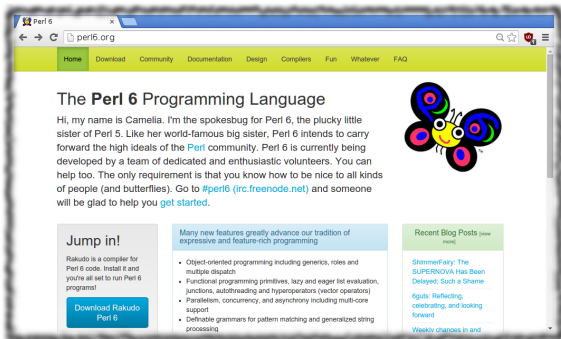
Object-orientation

```
1 class SmilingCat is Cat {
2     has Num $.smiling-power = 9000;
3     has Str $.name where { $^n eq uc $^n };
4     # only uppercase names allowed
5
6     method smile(Person $rcpt, Bool $jump?) {
7         say "Hello $rcpt!";
8         say "I'm jumping!" if $jump;
9         $rcpt.happiness += $.smiling-power;
10    }
11 }
```

Rules

```
1 grammar URL {
2     rule TOP {
3         <proto> '://' <host> '/' <path>
4     }
5     token proto { 'https' | 'ftps' }
6     rule host { [<domain> '.'?]+ }
7     # ...
8 }
9
10 if my $ast = URL.parse("https://a.org/b") {
11     # do something with the parse tree $ast
12 }
13
14 # NB: Rules are used in the compiler itself,
15 # to parse Perl 6 source code.
```

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modern • expressive • reimagination of Perl 5 • not source-level compatible to Perl 5 • full interop with Perl 5 • gradually typed • multi-paradigmatic • dramatically overhauled regexes • fully Unicode-aware • vast meta-programming abilities • implementations decoupled from specification