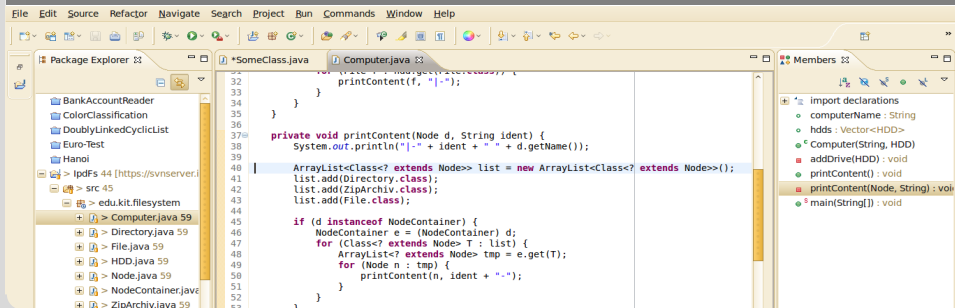


# How Google searches work

History, Algorithm

Martin Thoma, Benjamin | 24. Januar 2013

FAKULTÄT FÜR INFORMATIK



```
File Edit Source Refactor Navigate Search Project Run Commands Window Help
Package Explorer
SomeClass.java Computer.java
Members
import declarations
  computerName : String
  hdds : Vector<HDD>
  Computer(String, HDD)
  addDrive(HDD) : void
  printContent() : void
  printContent(Node, String) : void
  main(String[]) : void

32
33
34
35
36
37 private void printContent(Node d, String ident) {
38     System.out.println(f"|- " + ident + " " + d.getName());
39
40     ArrayList<Class<? extends Node>> list = new ArrayList<Class<? extends Node>>();
41     list.add(Directory.class);
42     list.add(ZipArchiv.class);
43     list.add(File.class);
44
45     if (d instanceof NodeContainer) {
46         NodeContainer e = (NodeContainer) d;
47         for (Class<? extends Node> T : list) {
48             ArrayList<? extends Node> tmp = e.get(T);
49             for (Node n : tmp) {
50                 printContent(n, ident + "-");
51             }
52         }
53     }
54 }
```

1 Introduction

2 PageRank

3 End

# The early days

In the beginning, there were only web catalogues (maintained by hand)

# The early days

Web crawler

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  - Humans create Websites
  - Humans will only **link** to Websites they like
- ⇒ Hyperlinks are a quality indicator

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- Simply count number of links to a Website
- ✗ 10,000 links from only one page
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# Thank you for your attention!


**Days 1 - 10**  
Teach yourself variables, constants, arrays, strings, expressions, statements, functions,....



**Days 11 - 21**  
Teach yourself program flow, pointers, references, classes, objects, inheritance, polymorphism, ....




**Days 22 - 697**  
Do a lot of recreational programming. Have fun hacking but remember to learn from your mistakes.




**Days 698 - 3648**  
Interact with other programmers. Work on programming projects together. Learn from them.




**Days 3649 - 7781**  
Teach yourself advanced theoretical physics and formulate a consistent theory of quantum gravity.




**Days 7782 - 14611**  
Teach yourself biochemistry, molecular biology, genetics,....



**Day 14611**  
Use knowledge of biology to make an age-reversing potion.



**Day 14611**  
Use knowledge of physics to build flux capacitor and go back in time to day 21.



**Day 21**  
Replace younger self.



As far as I know, this is the easiest way to "Teach Yourself C++ in 21 Days".