

Spaghetti-Code

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Gliederung

- **Allgemein**
- **Beispiel**
- **Ursachen**
- **Behebung**
- **Vermeidung**

- Software Development Anti-Pattern
- Weit verbreitetes Problem
- Verworrene / keine Kontrollstruktur

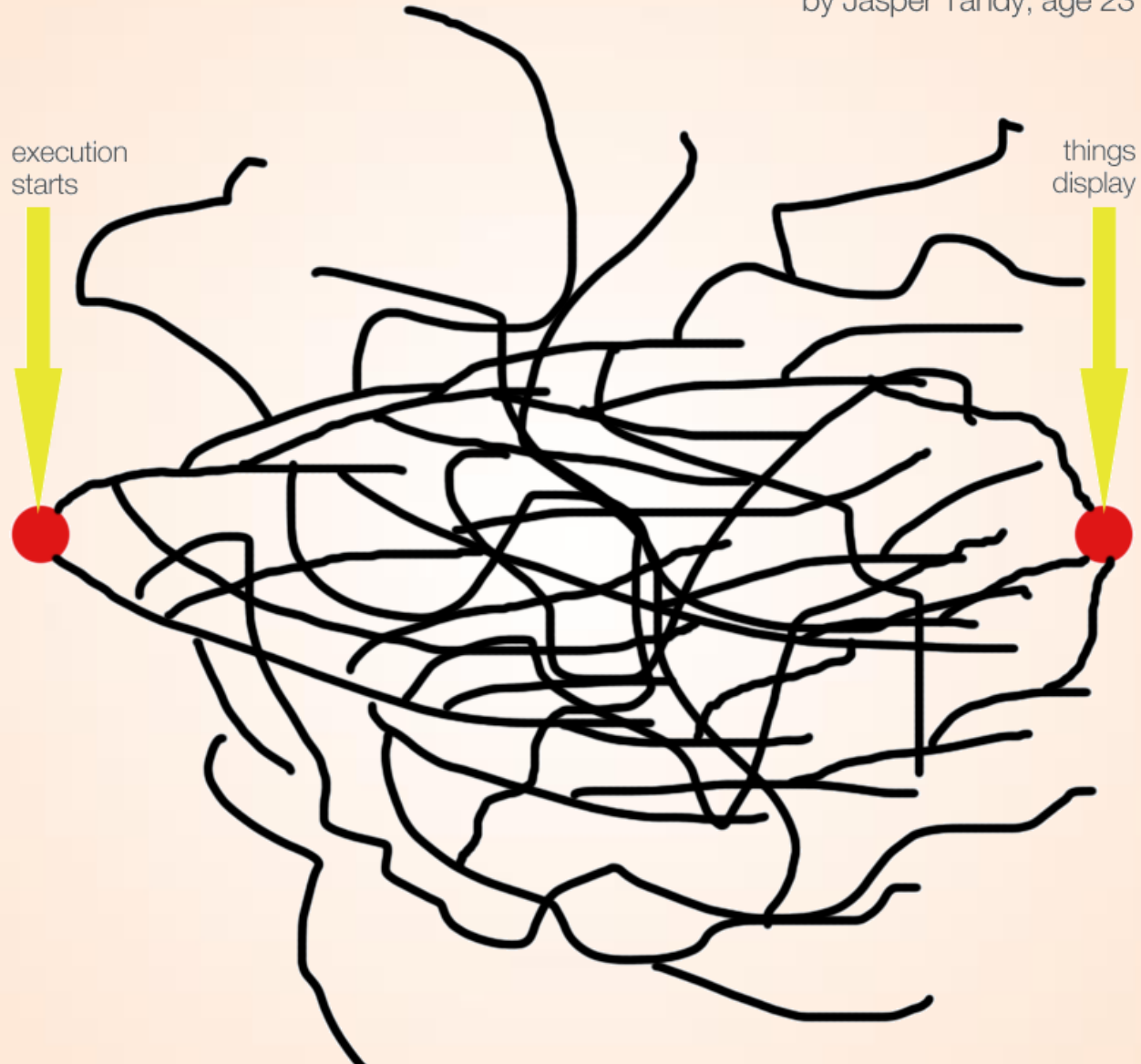
Pretty-code; A visualisation

by Jasper Tandy, age 23



Spaghetti-code; A visualisation

by Jasper Tandy, age 23



Spaghetti Code

```
10 i = 0
20 i = i + 1
30 PRINT i; " squared = "; i * i
40 IF i >= 10 THEN GOTO 60
50 GOTO 20
60 PRINT "Program Completed."
70 END
```

„Pretty“ Code

```
FOR i = 1 TO 10
    PRINT i; " squared = "; i * i
NEXT i
PRINT "Program Completed."
END
```

- Unerfahrene Programmierer
- Quick & Dirty Programmierung
- Isolierte Programmierer
- Erweiterung durch Dritte

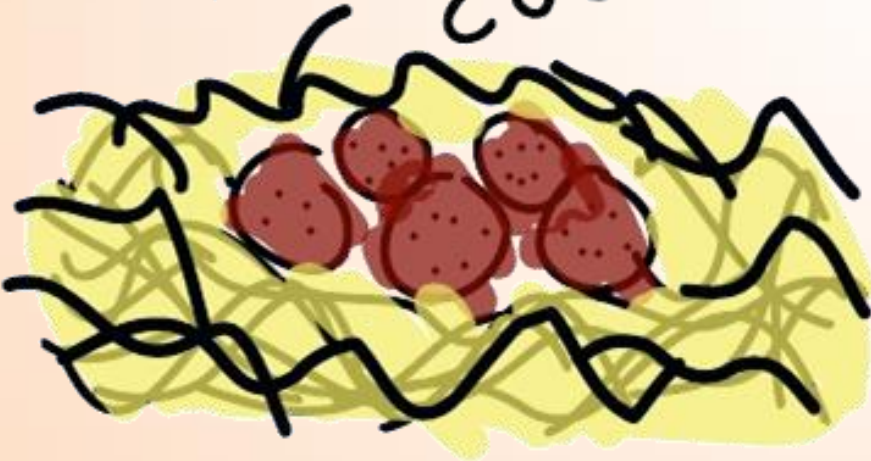
An ancient program,
written in VB6 and COM
filled with GOTOs must
be unraveled & updated.

Can you untangle

THE SPAGHETTI CODE

- Refactoring
- Neuimplementierung

How to
stop
writing
spaghetti
code



- Objektorientierung
- Design-Patterns
- Schulungen
- Code Reviews
- Entwurfsmodell

Zusammenfassung

AntiPattern Name:

Spaghetti Code

Most Applicable Scale:

Application

Refactored Solution Name:

Software Refactoring, Code Cleanup

Refactored Solution Type:

Software

Root Causes:

Ignorance, Sloth

Unbalanced Forces:

Management of Complexity, Change

Anecdotal Evidence:

"It's easier to rewrite this code than to attempt to modify it."

Quellen

- Informationen

- <http://sourcemaking.com/antipatterns/spaghetti-code>
- <http://de.wikipedia.org/wiki/Spaghetticode>

- Bilder

- <http://image.slidesharecdn.com/jsconf-eu-2010-100927144528-phpapp02/95/how-to-stop-writing-spaghetti-code-jsconfeu-2010-1-728.jpg%3Fcb%3D1285616920>
- http://www.rapidz.co.uk/wp-content/uploads/2013/03/1442790483_ba50f3f8b2.jpg
- <https://ircimg.net/istock-000005807723small.jpg>
- <http://jspr.tndy.me/die-spaghetti-code-die/>

Fragen?

I COULD RESTRUCTURE
THE PROGRAM'S FLOW
OR USE ONE LITTLE
'GOTO' INSTEAD.



EH, SCREW GOOD PRACTICE.
HOW BAD CAN IT BE?

`goto main_sub3;`

COMPILE

