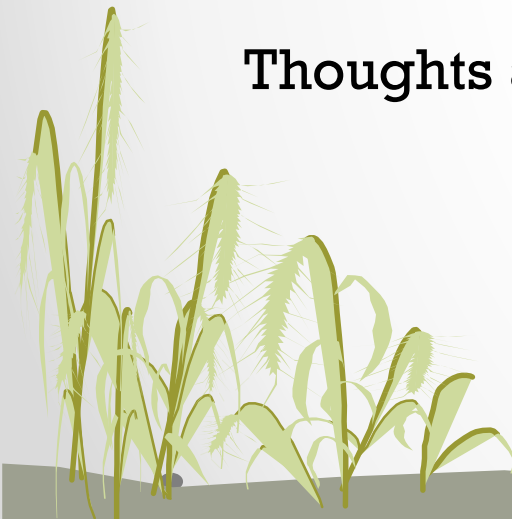# WELL, IT DEPENDS...

Thoughts about uncertainty

Luzern, 29.04.2021
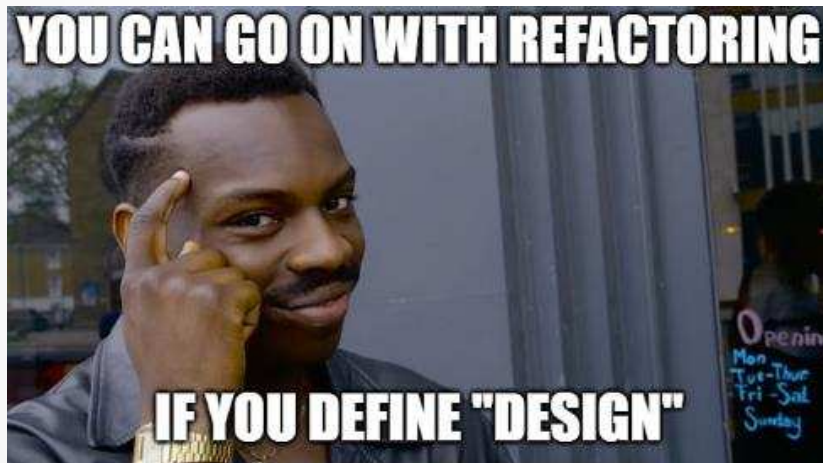
tamás günther   **in** amas-guenther

alcor academy training

TO DO OR NOT TO DO…

Pareto Principle applied to refactoring
- What is a «design change»
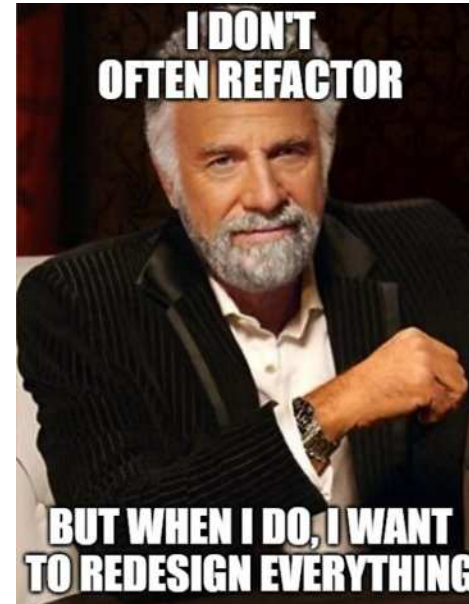
Business Value (of refactoring)
- Means taking «futures» into account
- Freelancer vs. CSS-dev

YOU CAN GO ON WITH REFACTORING
IF YOU DEFINE "DESIGN"

BUSINESS VALUE?

…OR HOW TO STOP

When to stop?

- …
- Simplest implementation & basics
- vs.
- Simplest algorithm & provable correctness
- vs.
- Learning effects

See you in the comments section

WHEN THE SIGNS LIE
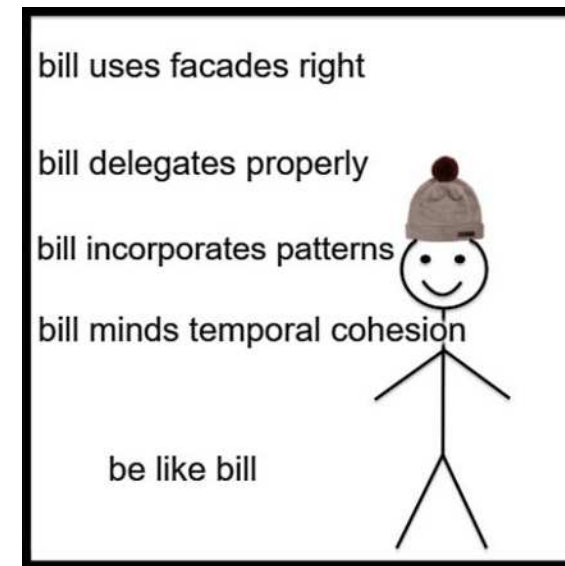## (FALSE POSITIVES)

Chaining
- fluent interface

Switch
- simple actions, factories

Middle man
- Facade can make sense
- Can show design intentions

CODE IS FULL OF SMELL "MESSAGE CHAIN"

POORLY NAMED BUILDER

bill uses facades right

bill delegates properly

bill incorporates patterns

bill minds temporal cohesion

be like bill

WHEN THE SIGNS LIE
(ONE MORE TO GO)

Data clump
- Unwanted dependency/coupling

Duplicate code
- Syntax duplication vs. Semantic/knowledge duplication
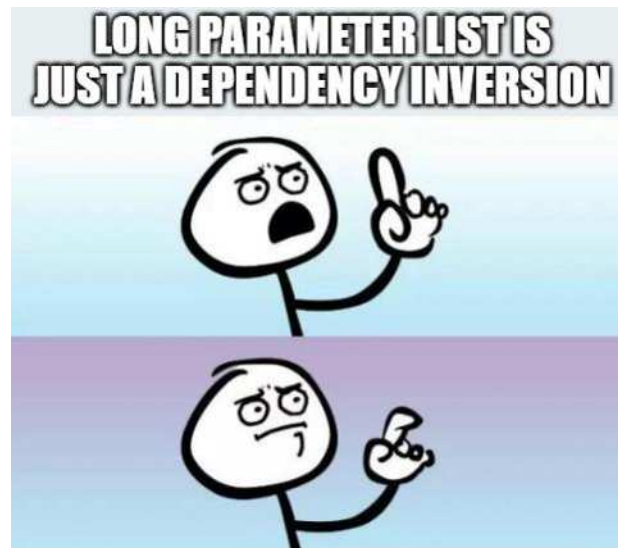- Static analysis can be wrong!

WHEN THE SIGNS LIE
(LAST ONE)

Long parameter list
- Example: big constructor
  → sometimes necessary for dependency inversion

WHEN THE SIGNS LIE
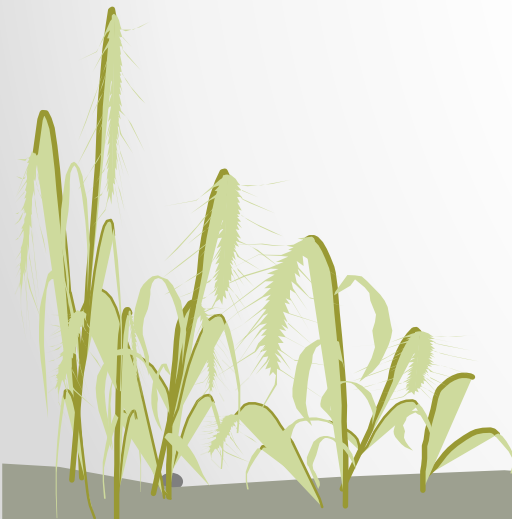## (LAST ONE, REALLY)

Parallel Inheritance Hierarchies
- Was made intentionally to avoid bigger mess

WHEN THE SIGNS LIE
(LAST ONE, TRUST ME, I'M…)

… an engineer,

open to discussions

THANK YOU FOR YOUR ATTENTION