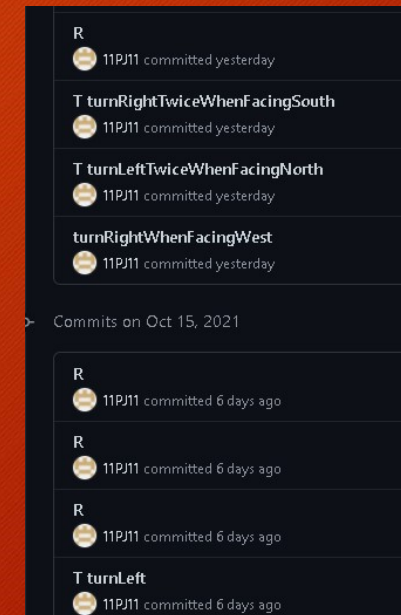# Running

But where? … to the hills?

Refactoring

- All green – Refactor aggressively and constantly
- 80% improving readability 20 % design change
- IDE is your friend: Rename, Extract, Inline, Move, Safe delete
- Parallel change 1-expand (functionality newMethod) and 2-migrate (use newMethod calls) and 3-contract (remove oldMethod/rename newMethod)
- Commit as often as possible

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Commit conventions: 7 Rules

- Separate subject from body with a blank line
- Limit the subject line to 50 characters
- Capitalize first letter in the subject line
- Do not end the subject line with a period
- Use the imperative mood in the subect line
- Wrap the body at 72 characters
- Use the body to explain what and why vs. how

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R
11PJ11 committed yesterday

T turnRightTwiceWhenFacingSouth
11PJ11 committed yesterday

T turnLeftTwiceWhenFacingNorth
11PJ11 committed yesterday

turnRightWhenFacingWest
11PJ11 committed yesterday

Commits on Oct 15, 2021

R
11PJ11 committed 6 days ago

R
11PJ11 committed 6 days ago

R
11PJ11 committed 6 days ago

T turnLeft
11PJ11 committed 6 days ago

```
Fix typo in introduction to user guide
```

Code Smells: Bloaters

4 / 16

- Long parameter list
- Data clumps
- Primitive obsession
- Long Method
- Large Class

https://www.digitec.ch/en/s1/product/sony-ps4-dualshock-4-wireless-controller-jet-black-game-controllers-441772

https://www.greenstories.de/wooden-story-hochwertige-sortierbox

https://www.pngwing.com/en/free-png-xfqir/download

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https://www.pngwing.com/en/free-png-xfqir/download

https://de.wikipedia.org/wiki/Die_Daltons_(Comicfiguren)

Code Smells: Change Preventers

https://www.dreamstime.com/melon-seed-coated-colorful-chocolate-malaysia-people-called-coklat-kuaci-melon-seed-coated-colorful-chocolate-image170695294

- Divergent change
- Shotgun surgery
- Parallel inheritance hierarchies

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https://www.deviantart.com/hellenicwarrior/art/Aristotechnos-Art-Odysseus-and-the-12-axes-498115930

https://www.youtube.com/watch?v=KHVYQrLbbyM

Code Smells: OO Abusers

- Switch statements
- Temporary field

https://www.pinterest.ch/pin/245375879684067454/

https://www.shelterlogic.com/shop/knowledge/6-benefits-to-using-a-temporary-storage-solution

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Code Smells: Couplers

- Middle Man
- Message chains (law of demeter)
- Feature envy
- Inappropriate intimacy

https://gilavalleycentral.net/peek-behind-the-curtain-the-production-of-an-audiobook/

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.getDefault()
.getProvider()
.getContext()
.getContainer()
Proxy

https://wagstaffcranebenefits.com

https://de.wikipedia.org/wiki/Telefonistin_(Schweiz)

https://www.shopback.my/blog/5-local-all-you-can-eat-buffets-to-fill-your-bellies-at-this-month

Code Smells: Dispensables

- Lazy Class
- Data Class
- Speculative Generality
- Comments
- Dead code
- Duplicated code

https://theawesomedaily.com/23-times-deadpool-won-our-hearts/

https://www.wallpaperbetter.com/en/hd-wallpaper-abuih

http://yetanothercomicsblog.blogspot.com/2006/11/mid-90s-inter-company-crossovers-that.html

https://www.langweiledich.net/notfall-happen/

https://www.boredpanda.com/useless-object-design-the-unusable-katerina-kamprani/

https://www.pngwing.com/en/free-png-bklkk/download

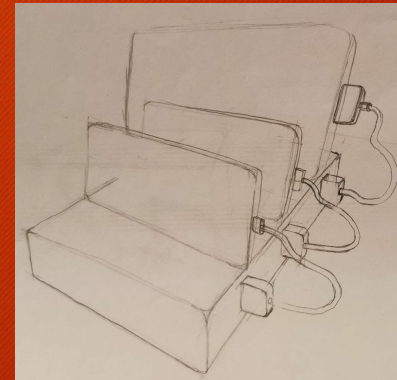Running by Res Gilgen

My Head is full … what do you remember?

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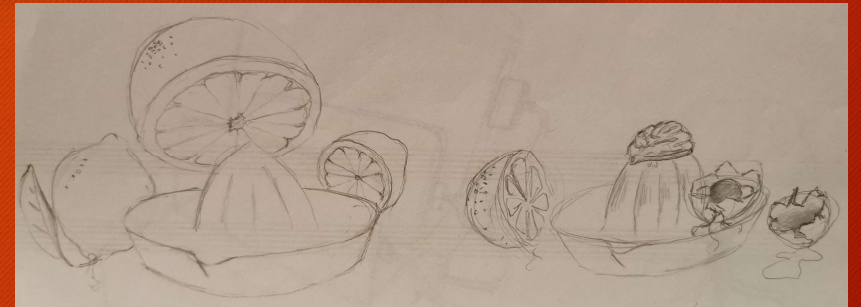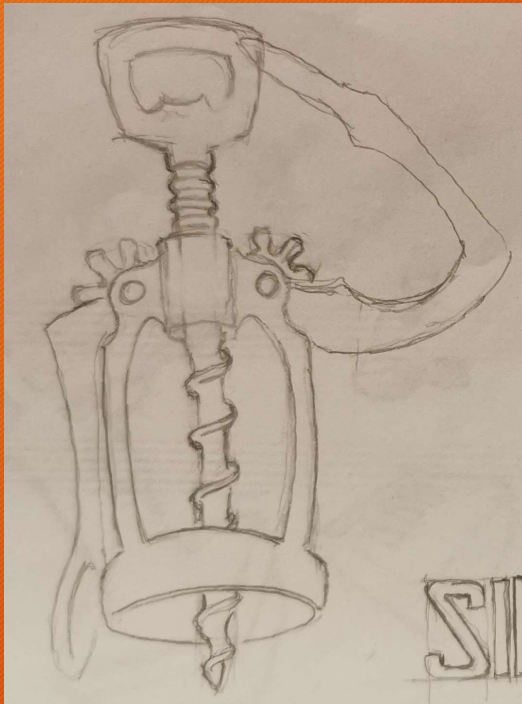
- Single responsibility
- Open Close
- Liskov substitution
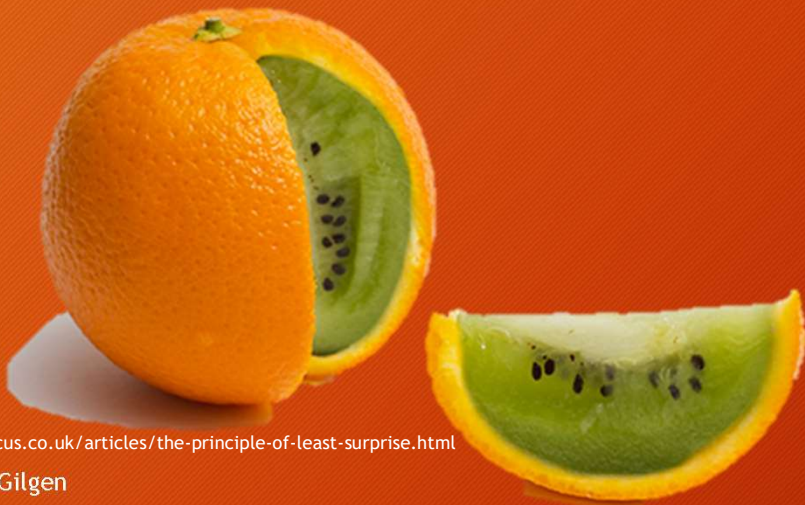- Interface segregation
- Dependency inversion

SOLID

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- Balanced abstraction
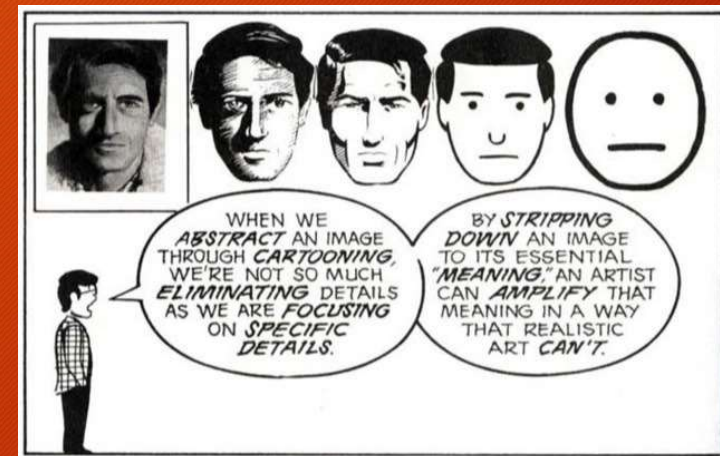- Least astonishement

https://kottke.org/tag/Scott%20McCloud

https://www.userfocus.co.uk/articles/the-principle-of-least-surprise.html

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Conclusion

- A lot to pay attention on
- A lot to recognize
- Sometimes its hard to prioritize
- Don't miss to get the support of the mob
- Coding shouldn't be done in solitary

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Questions

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Thank you for your attention

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resgilgen@gmail.ch
Resources

Agile Technical Practices Distilled
(Pedro Moreira Snatos, Marco Consolaro, Alessandro Di Gioia)

Alcor Academy Lessons
(Marco Consolaro, Alessandro Di Gioia)

How to Write Git Commit Message
https://chris.beams.io/posts/git-commit/

Bad code smells
https://sourcemaking.com/refactoring

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https://www.pinclipart.com/pindetail/TooxRJ_frequently-asked-questions-question-icon-png-transparent-clipart/

https://www.pngrepo.com/svg/127141/atomic-theory

https://www.iconfinder.com/icons/87436/idea_icon