

# AGILE > TECH TALKS

PRESENTED BY AGILE ALLIANCE

Olgica Djuric, May 8th 2024.



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[github.com/ondjuric](https://github.com/ondjuric)



[github.com/ondjuric/talks/blob/main/tdd\\_resistance.md](https://github.com/ondjuric/talks/blob/main/tdd_resistance.md)





```
if (groupinfo->blocks[0] != group_info->small_block) {  
    for (i = 0; i < group_info->nblocks; i++)  
        int i;  
        freepage((unsigned long)groupinfo->blocks[i]);  
    for (i = 0; i < group_info->nblocks; i++)  
        freepage((unsigned long)groupinfo->blocks[i]);  
    kfree(groupinfo);  
}
```

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# A Programmer's Resistance to the Test-first approach

## Agenda

- ▶ Programmer's journey
  - ▶ Intro to TDD and Mock
  - ▶ Life without TDD
  - ▶ Finding My Community
  - ▶ Applying On Legacy Codebase
- ▶ Reflection on resistance and insights
  - ▶ Breakout rooms - reflection activity
- ▶ Gratitude Q&A

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# Part I - Intro to TDD and Mock



```
else x = False  
else y = True  
else  
    if condition == "MIRROR_Z":  
        mod.use_x = False  
        mod.use_y = True  
    else:  
        mod.use_x = True  
        mod.use_y = False  
  
if groupinfo->blocks[0] != group_info->small_block) {  
    for (i = 0; i < group_info->nblocks; i++)  
        int i;  
        for (i = 0; i < group_info->nblocks; i++)  
            freepage((unsigned long)groupinfo->blocks[i]);  
        kfree(groupinfo);  
    }  
}
```



# Part I - Intro to TDD and Mock





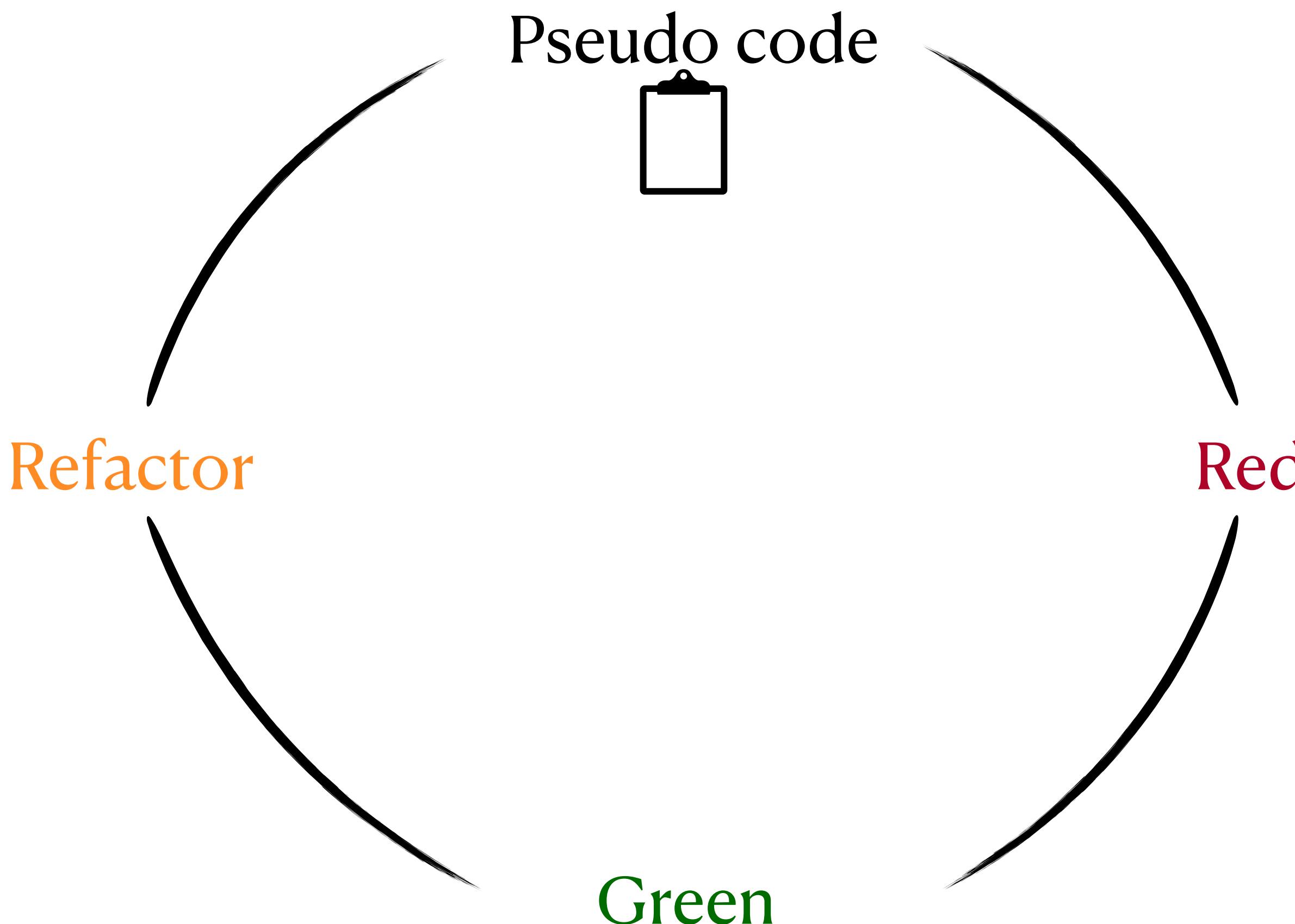
# Part I - Intro to TDD and Mock





# Part I - Intro to TDD and Mock

Test-First - Flow



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# Part I - Intro to TDD and Mock

Test-First - Benefits

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- ▶ Fail fast, a bug catcher
- ▶ Documentation
- ▶ Specification
- ▶ Getting faster into domain
- ▶ Evolve the design safely and incrementally
- ▶ Robust code base
- ▶ Improving coding skills
- ▶ Safety net

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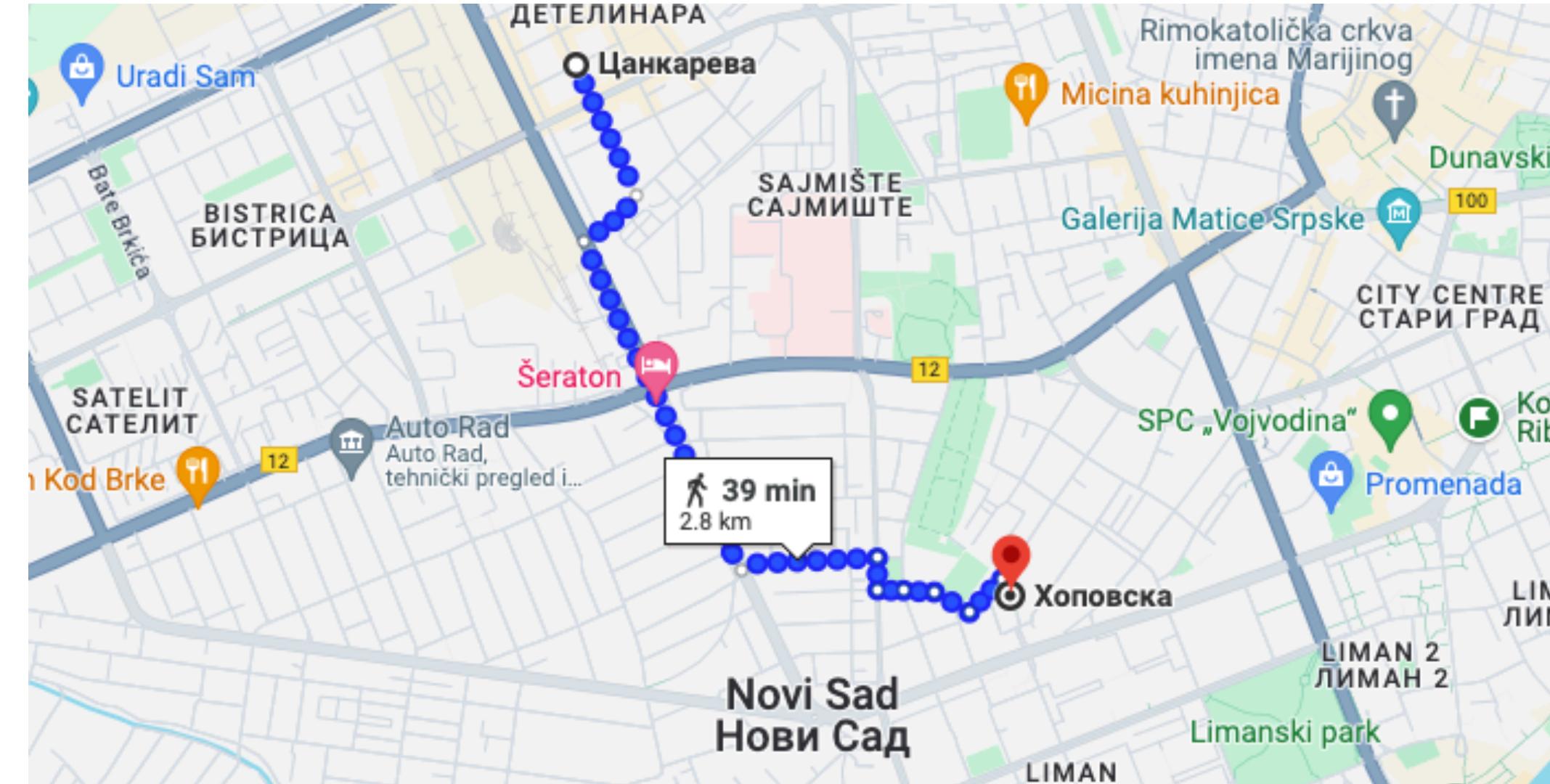
## Part II - Life without TDD

```
groupinfo->blocks[0] != group_info->small_block) {  
    for (i = 0; i < group_info->nblocks; i++)  
        if (group_info->blocks[i] != group_info->small_block) {  
            FreePage((unsigned long)groupinfo->blocks[i]);  
            groupinfo->blocks[i] = group_info->small_block;  
        }  
    kfree(groupinfo);  
}
```



# Part II - Life without TDD

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# Part II - Life without TDD

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# Part II - Life without TDD

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# Part II - Life without TDD

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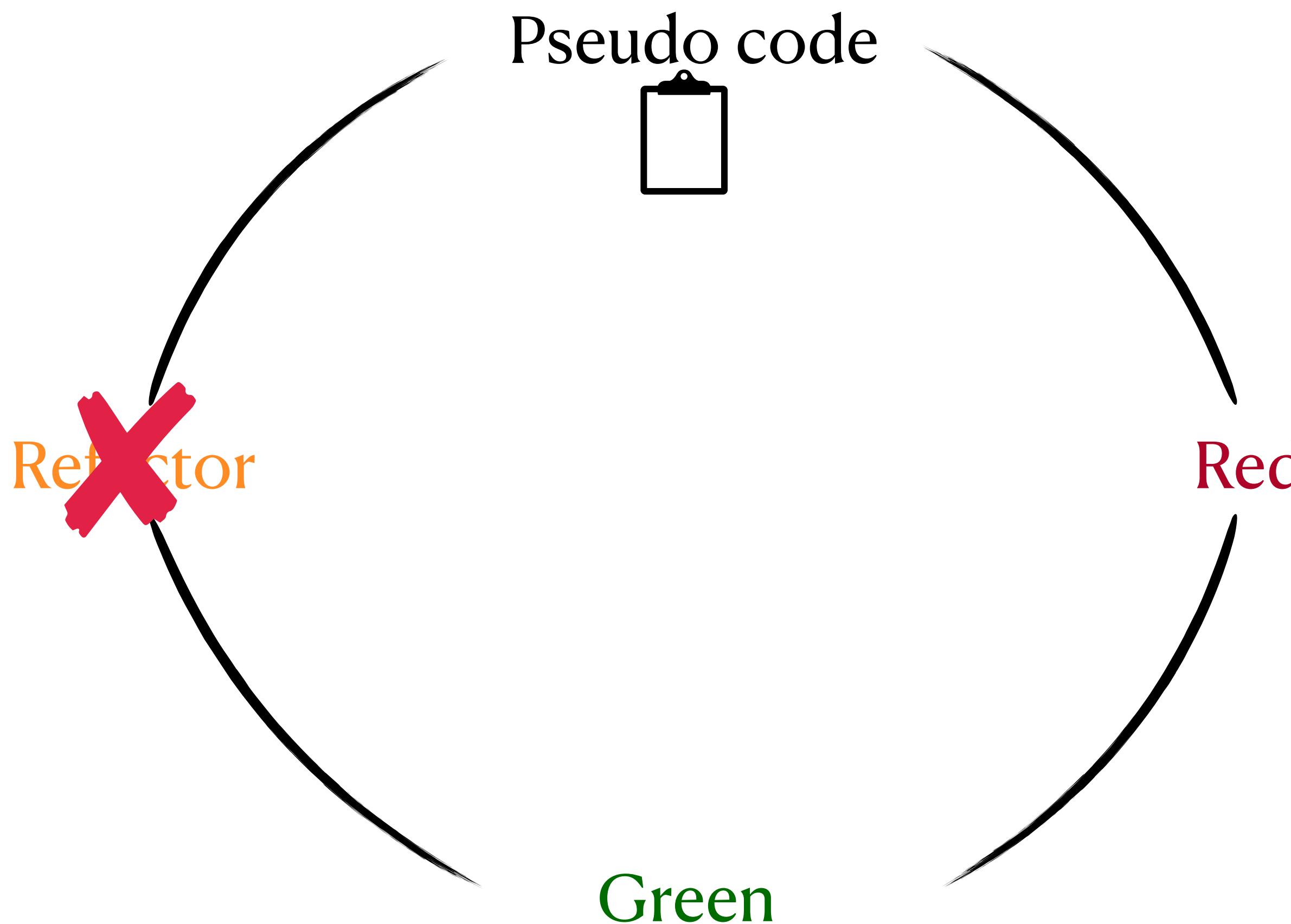


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# Part II - Life without TDD

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# Part II - Life without TDD

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# Part II - Life without TDD

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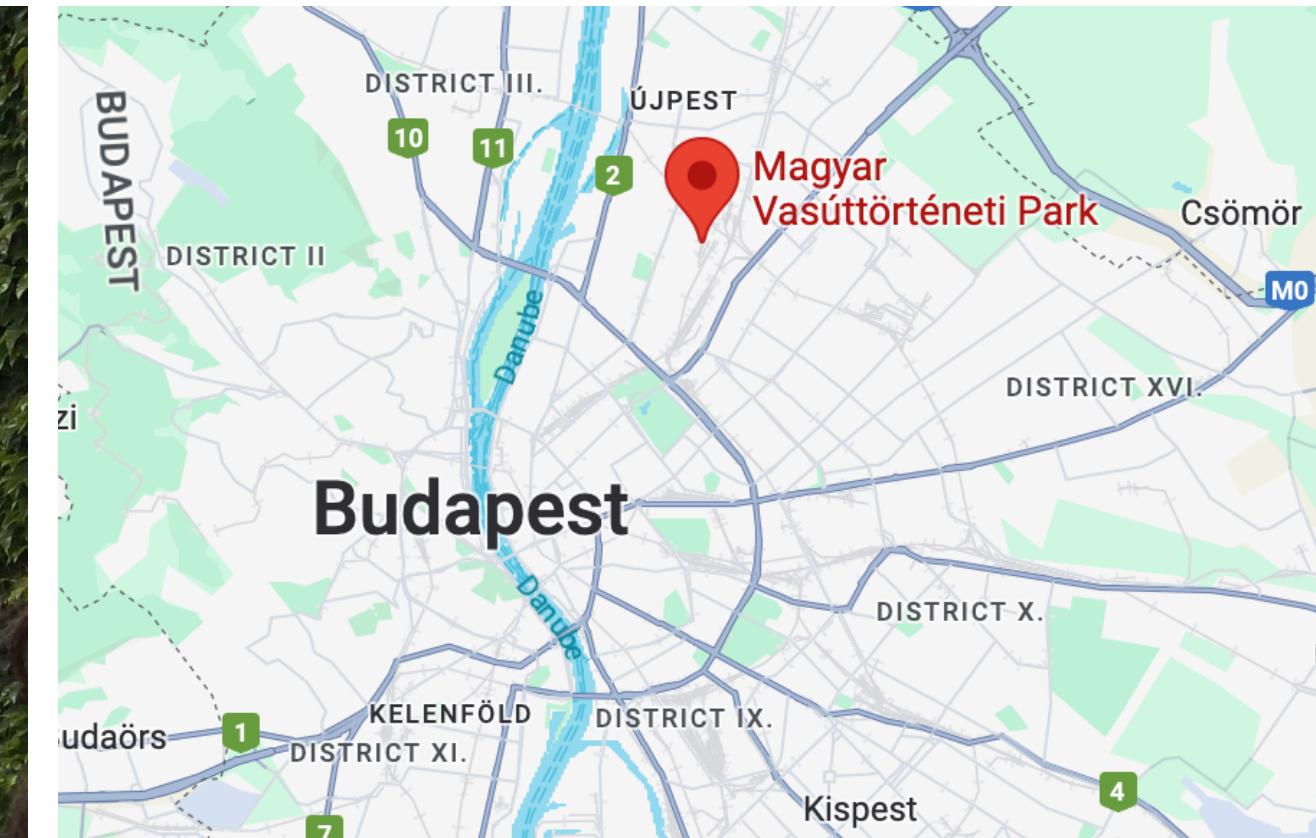
# Part III - Finding My Community

```
groupinfo->blocks[0] != group_info->small_block) {  
    for (i = 0; i < group_info->nblocks; i++)  
        if (groupinfo->blocks[i] < group_info->blocks[i+1]) {  
            freepage((unsigned long)groupinfo->blocks[i]);  
            kfree(groupinfo);  
            return 1;  
        }  
}
```



# Part III - Finding My Community

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# Part III - Finding My Community

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*Mob programming workshop, Craft Conf 2019.*

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# Part III - Finding My Community

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Kata  
(*kädə*)



2005 cadet world karate champion [\[1\]](#) Emmanuelle Fumonde performing a kata.

Repetitio est  
mater studiorum.

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# Part III - Finding My Community

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Llewellyn Falco  
@LlewellynFalco

Follow

...

#CraftConf these people made it till end



11:44 pm · 9 May 2019

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# Part III - Finding My Community

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emilybache / Clarify-Exception-Refactoring-Kata

Code Issues Pull requests Actions Projects Security Insights

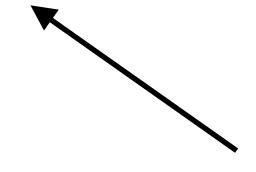
Clarify-Exception-Refactoring-Kata Public Watch 4 Fork 17 Star 19

master Go to file + <> Code

	emilybache	Merge pull request #5 from codecop...	12c4c1b · 4 years ago	20 Commits
	csharp	Merge pull request #5 from codecop/...	4 years ago	
	java	rename to ClarifyException	5 years ago	
	README.md	improve docs	5 years ago	
	license.txt	initial import	5 years ago	

About

For practicing refactoring, removing duplication, and making code more flexible



Readme  
 MIT license  
 Activity  
 19 stars  
 4 watching

<https://github.com/emilybache/Clarify-Exception-Refactoring-Kata>

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# Part III - Finding My Community

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*A picture's worth a 1000 tests.*

Unit testing - primitive type

```
assertEquals(5, person.getAge())
```

Unit testing - complex object

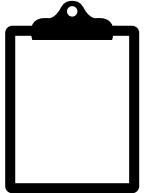
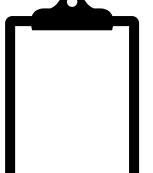
```
Approvals.verify(person)
```

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# Part III - Finding My Community

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-  1. Create your scenario    2. Write that scenario in your mother language\*
-  3. Write that scenario in English
-  4. Translate English to Code        5. Create Code so it works
-  6. Run your test for feedback while you code
-  7. Approve result so it continues to work       8. Change the requirement
-  9. See the new solution        10. Re-Approve so it continues to work

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# Part III - Finding My Community

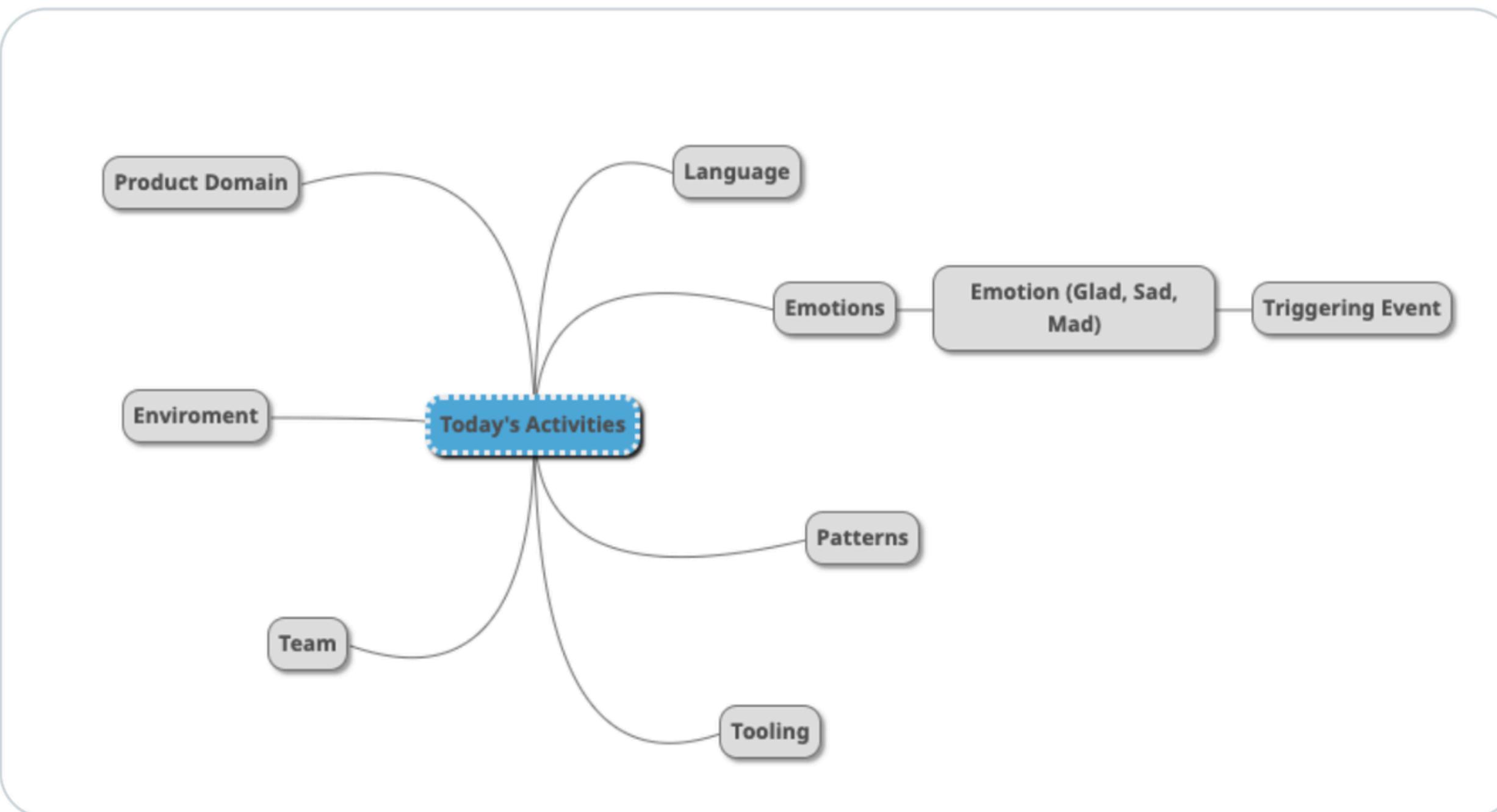
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Llewellyn Falco @LlewellynFalco · Jun 18, 2019

...

This is an excellent template to start a observation retro:



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# Part III - Finding My Community

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Olgica Djuric @ondjuric · Jun 3, 2019

...

Cleaned up @emilybache ExceptionEnrichment Kata with @LlewellynFalco

```
public class MessageEnricher
{
    public ErrorResult EnrichError(SpreadsheetWorkbook spreadsheetWorkbook, Exception e)
    {
        var formulaName = spreadsheetWorkbook.GetFormulaName();

        string error = ExpressionParseEnrichment.GetMessage(e, formulaName)
            ?? CircularReferenceEnrichment.GetMessage(e, formulaName)
            ?? MissingLookupTableEnrichment.GetMessage(e, formulaName)
            ?? NoMatchesEnrichment.GetMessage(e, formulaName)
            ?? InvalidFormulaEnrichment.GetMessage(e, formulaName)
            ?? e.Message;

        return new ErrorResult(formulaName, message: error, spreadsheetWorkbook.GetPresentation());
    }
}
```

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# Part IV - Applying on Legacy

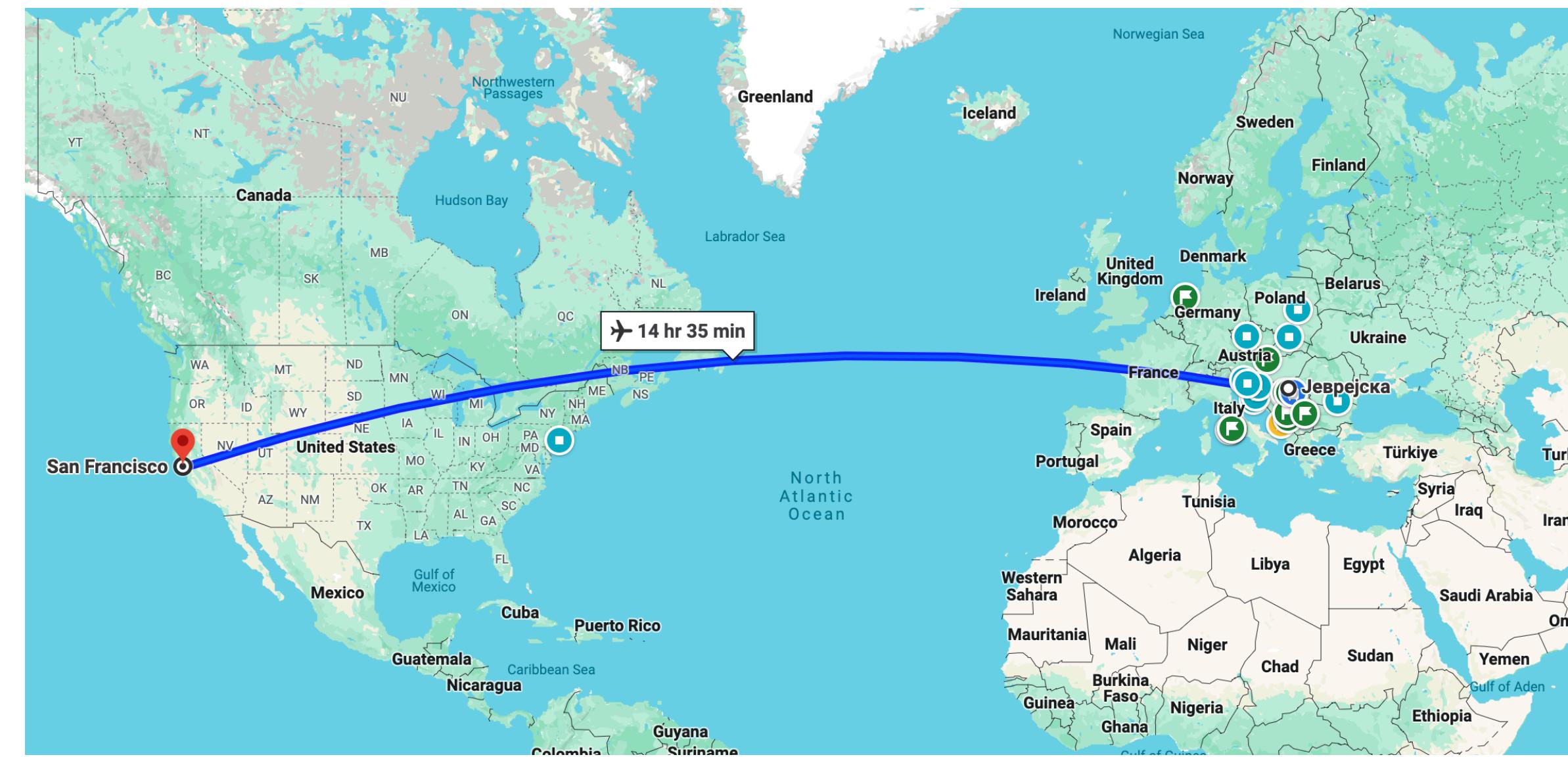


```
groupinfo->blocks[0] != group_info->small_block) {  
    for (i = 0; i < group_info->nblocks; i++)  
        if (group_info->blocks[i] < group_info->blocks[i+1])  
            FreePage((unsigned long)group_info->blocks[i]);  
    kfree(groupinfo);  
}
```



# Part IV- Applying on Legacy

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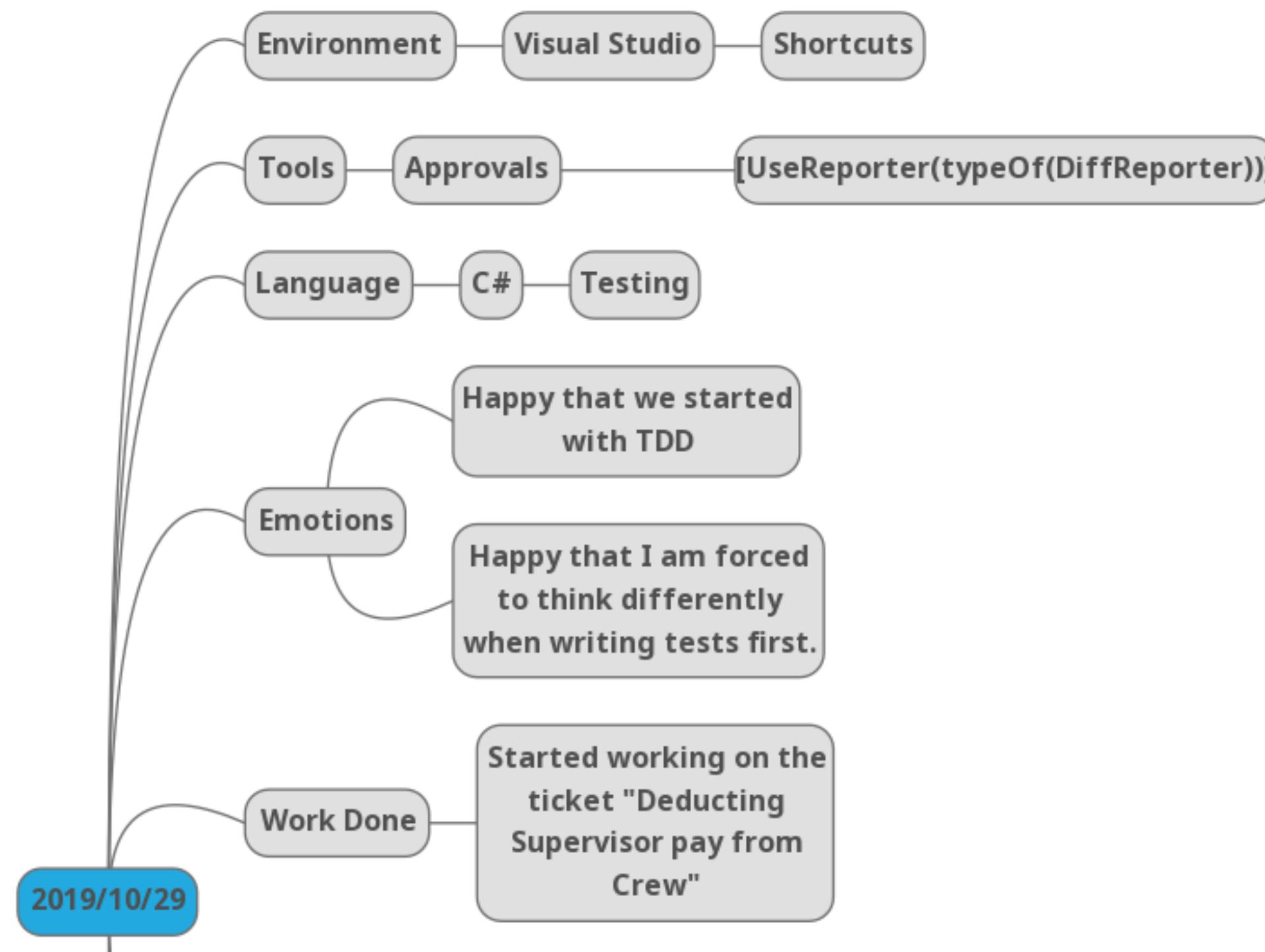


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# Part IV- Applying on Legacy

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# Part IV - Applying on Legacy

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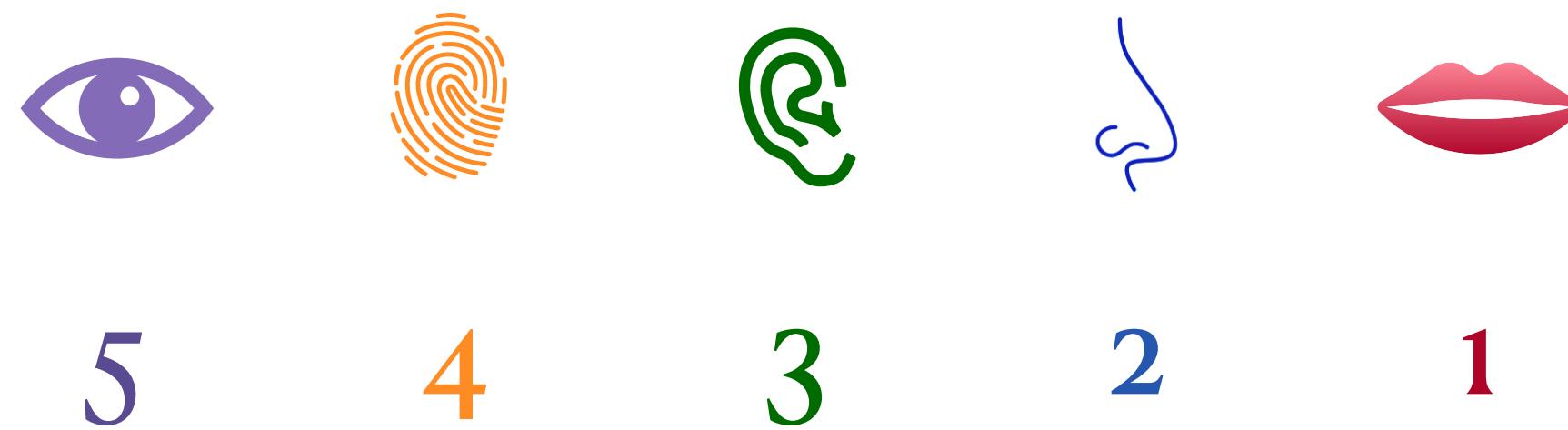


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# Part IV- Applying on Legacy

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# Part V - Reflection



```
groupinfo->blocks[0] != group_info->small_block) {
    for (i = 0; i < group_info->nblocks; i++)
        if (FreePage((unsigned long)groupinfo->blocks[i]));
    freepage((unsigned long)groupinfo->blocks[i]);
    kfree(groupinfo);
}
```



# Reflection On Resistance

Sabotaging voices

- ▶ Judging and sabotaging:
  - ▶ Self
  - ▶ Others
  - ▶ Circumstances



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# Reflection On Resistance

Sabotaging voices

## The Judge





# Reflection On Resistance

Sabotaging voices

The Avoider

*"I'll just stick to what I know."*





# Reflection On Resistance

Sabotaging voices

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## The Hyper-Achiever



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# Reflection On Resistance

Sabotaging voices

The Restless

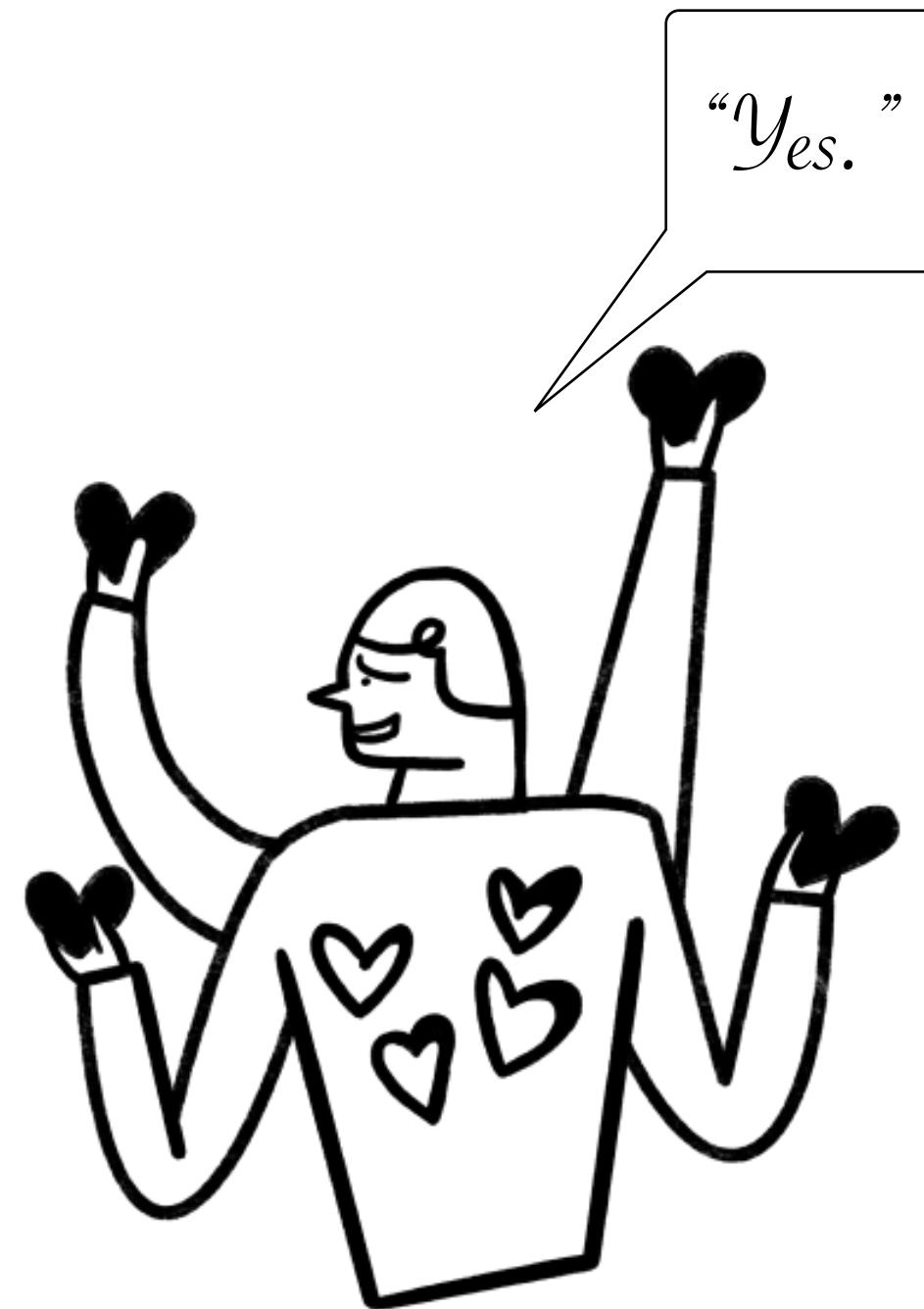




# Reflection On Resistance

Sabotaging voices

The Pleaser

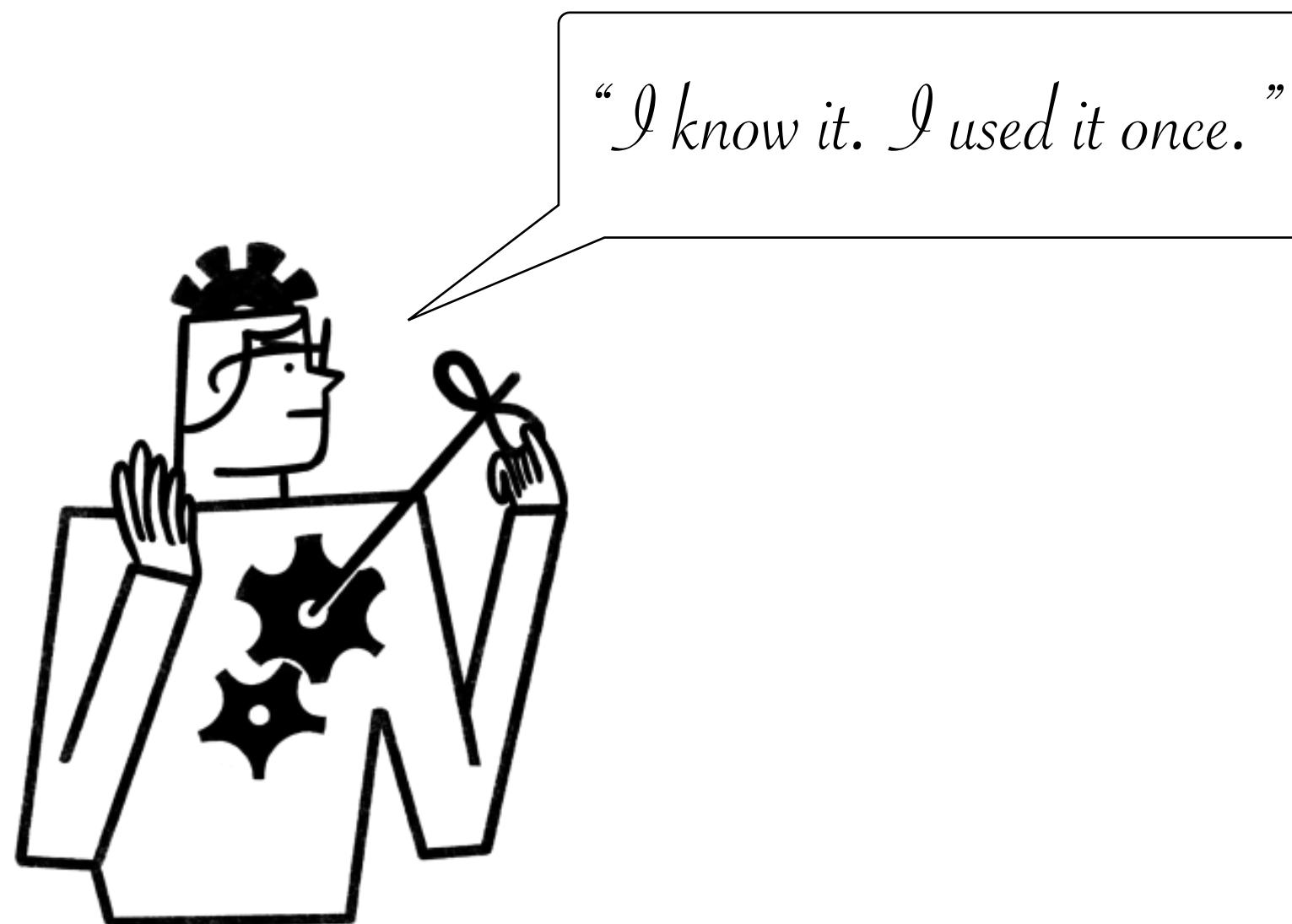




# Reflection On Resistance

Sabotaging voices

## The Hyper-Rational





# Reflection On Resistance

Sabotaging voices

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## The Victim



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# A Programmer's Resistance to the Test-first approach

Tech - Starting kit

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Coding together, Community, Supportive environment

Developing refactoring and TDD skills is one of the most compassionate things you can do for yourself and your peers

Get familiar with:

Terminology and syntax

Unit Test - Arrange, Act, Assert & Given, When, Then

What the Mock? - Mock library in your ecosystem

Approval Tests



Refactoring catalog

Java by Comparison

Refactoring tool/plugin in your IDE

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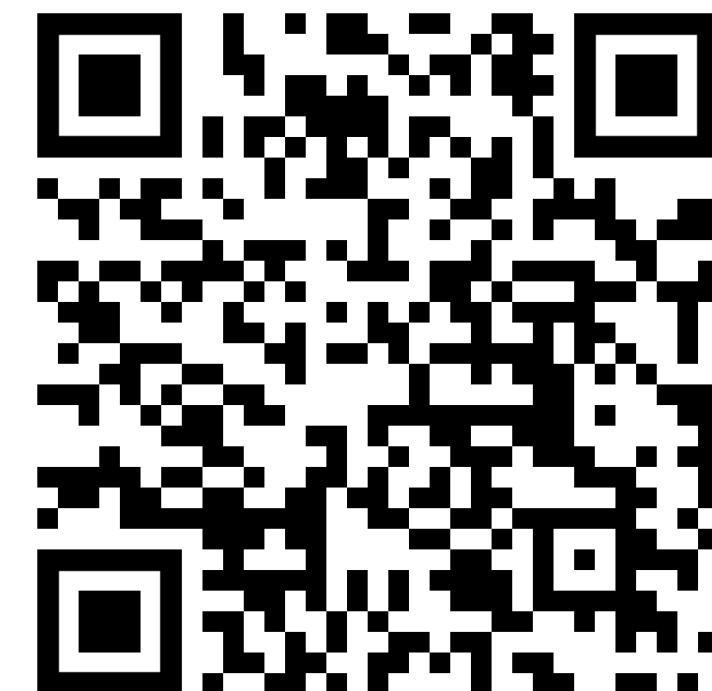


# Reflection On Resistance

Saboteurs - Breakout room

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- ▶ Which saboteur are you recognising in you?
- ▶ How strong is it?
- ▶ What's its biggest impact?



[github.com/ondjuric/talks/blob/main/tdd\\_resistance.md](https://github.com/ondjuric/talks/blob/main/tdd_resistance.md)

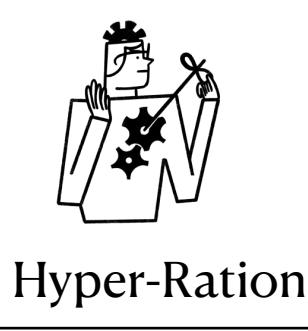




# Reflection On Resistance

Saboteurs - Sabotaging voices - Examples

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 Judge	<ul style="list-style-type: none"><li>▶ TDD is wasting of time. You should focus on pushing out new features instead.</li></ul>
 Avoider	<ul style="list-style-type: none"><li>▶ TDD and refactoring seem too complicated. I'll just stick to what I know.</li></ul>
 Controller	<ul style="list-style-type: none"><li>▶ I don't trust automated tests to catch all the bugs. I'd rather manually test everything.</li></ul>
 Hyper-Achiever	<ul style="list-style-type: none"><li>▶ I don't have time for TDD and refactoring; I need to learn this new framework.</li></ul>
 Hyper-Rational	<ul style="list-style-type: none"><li>▶ I managed to apply it once, and read some cool book on TDD, and now I know it. No need to practice it further.</li></ul>



# Reflection On Resistance

Saboteurs - Sabotaging voices - Examples

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 Hyper-Vigilant	► I'm worried that if I start TDD, I need to refactor, and I'll never finish. It's better to leave things as they are.
 Pleaser	► I don't want to rock the boat by suggesting TDD. I'll just go along with what everyone else is doing.
 Restless	► I am missing out on more interesting stuff. I can do better than what I am doing now.
 Stickler	► I can't refactor this code until it conforms to all our design guidelines. It has to be perfect.
 Victim	► TDD won't make a difference. My codebase is too far gone to salvage.



# A Programmer's Resistance to the Test-first approach

## Challenge

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- ▶ Experiment going 10% beyond your comfort zone and be OK with “messy”.
- ▶ Do the TDD of yourself :)





# Thank you

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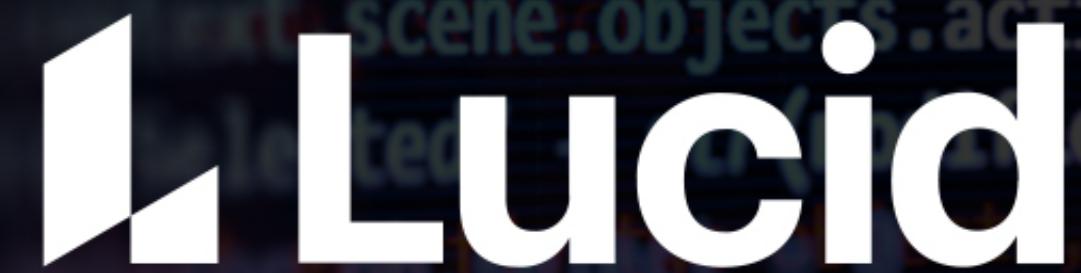


[github.com/ondjuric/talks/blob/main/tdd\\_resistance.md](https://github.com/ondjuric/talks/blob/main/tdd_resistance.md)

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