

# DŁUG TECHNICZNY

## Narzędzie profesjonalisty

Adrian Mularczyk

PGS Software

# Krzysztof Kędzierski

Dług techniczny - Narzędzie Profesjonalisty

Boiling Frogs 2018

<https://www.youtube.com/watch?v=PxcQISUIpjQ>

# Agenda

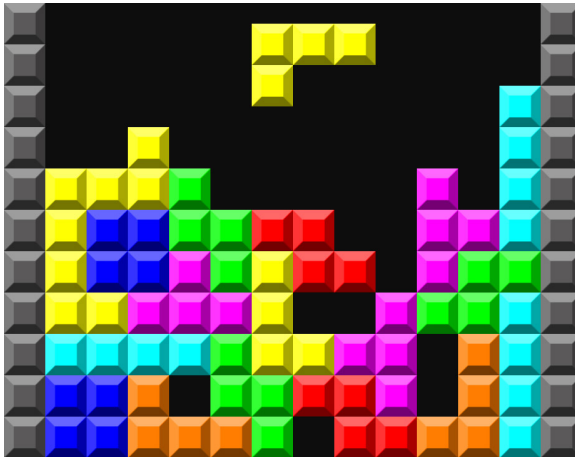
- 1 Wyjaśnienie problemu
- 2 Dług techniczny
- 3 Spłacalny dług techniczny

# Wyjaśnienie problemu

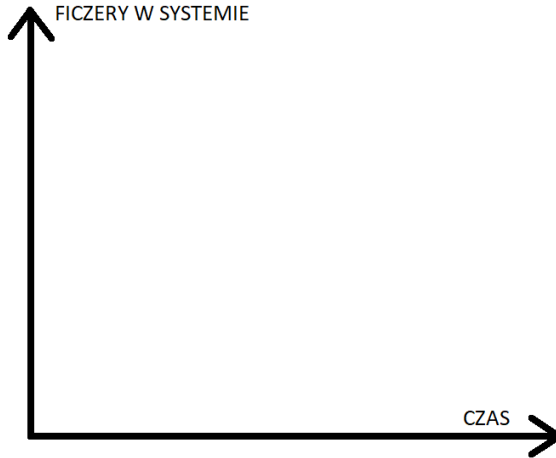
# Dług techniczny

# Dług techniczny

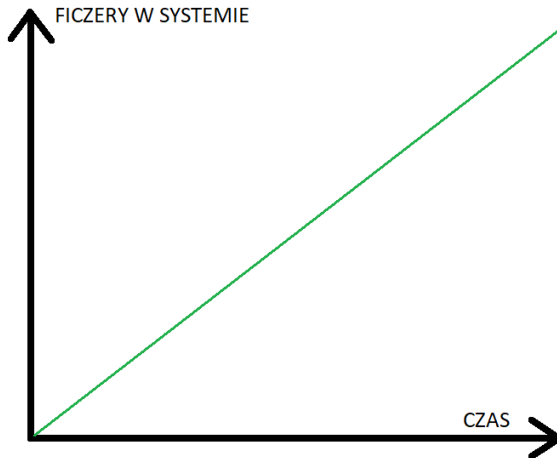
# Tetris



# Design Stamina Hypothesis

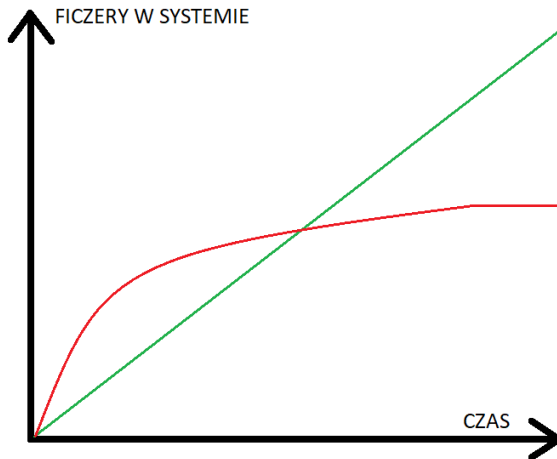


# Design Stamina Hypothesis

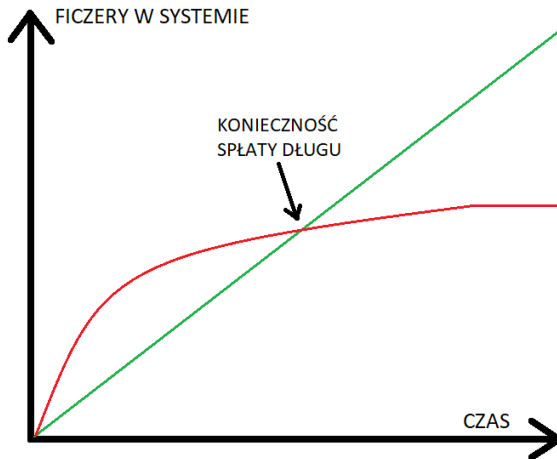




# Design Stamina Hypothesis



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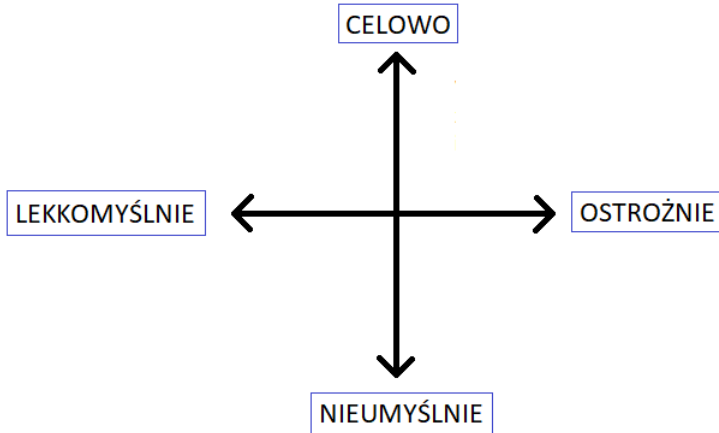
# Spłacalny dług techniczny

# Technical debt quadrant

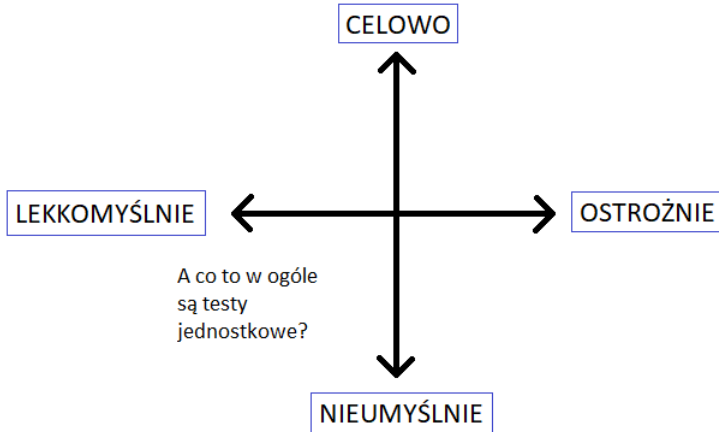
# Technical debt quadrant



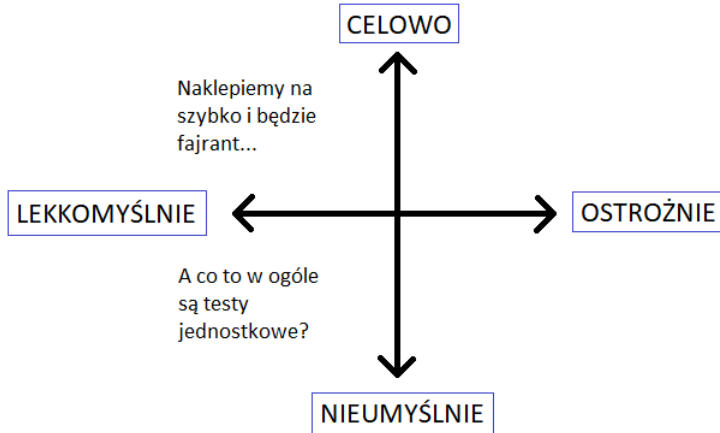
# Technical debt quadrant



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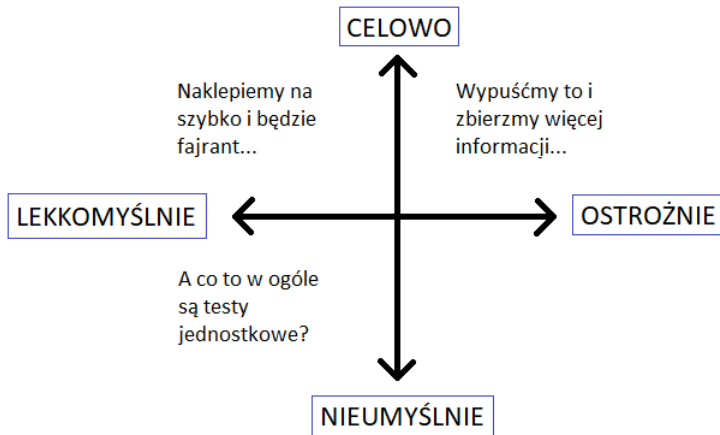


# Technical debt quadrant

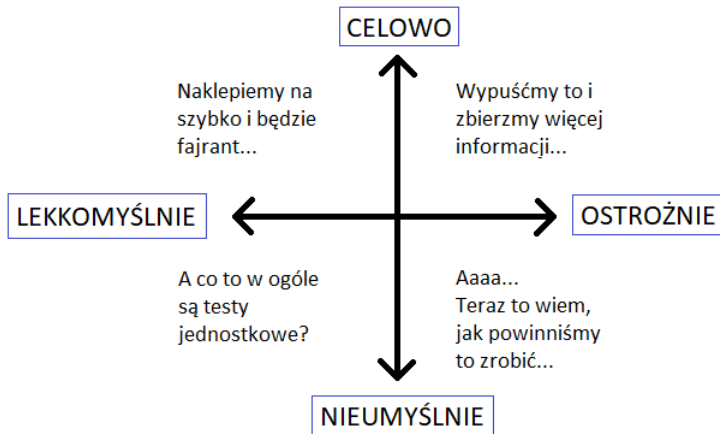




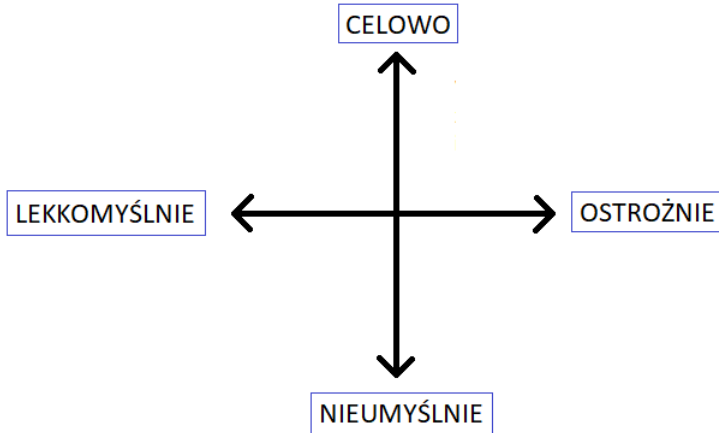
# Technical debt quadrant



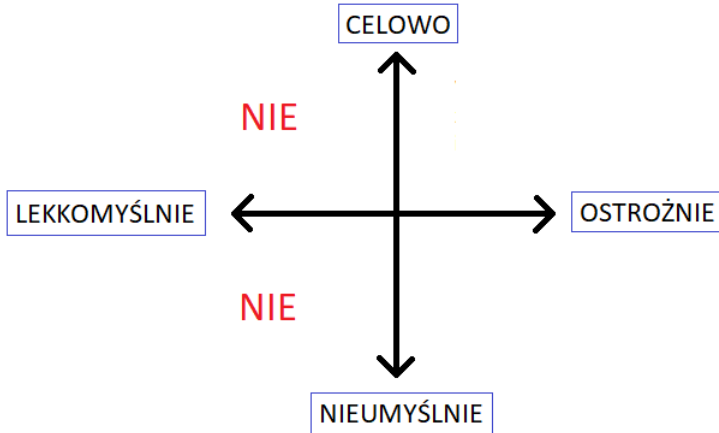
# Technical debt quadrant



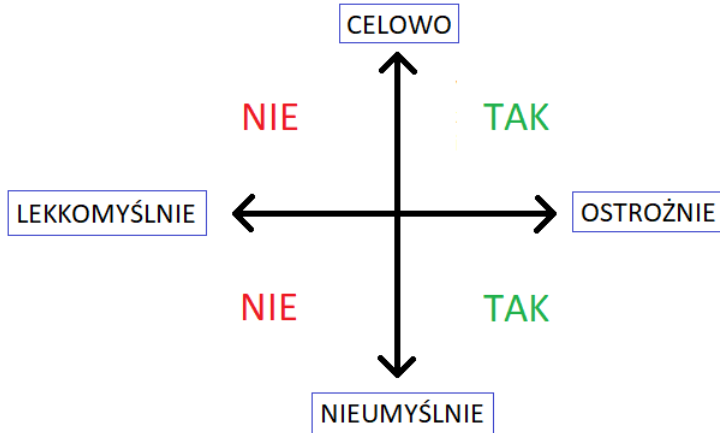
# Czy możliwa jest spłata długu?



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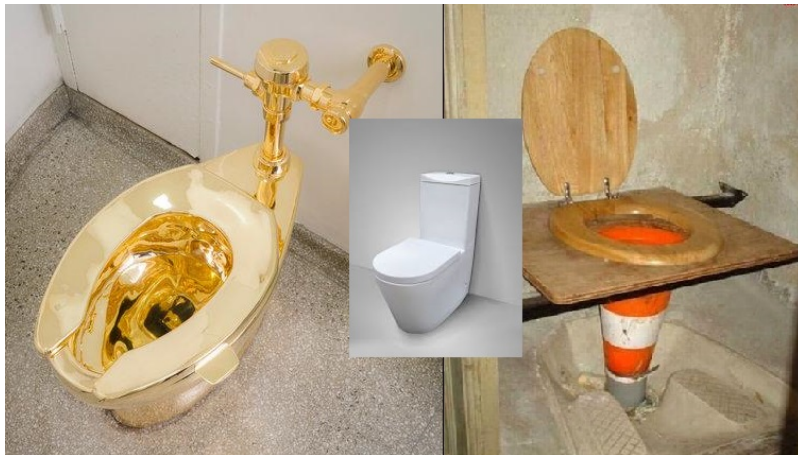


# Spłacalny dług techniczny

- Piszemy czysty kod









- Piszemy czysty kod
- Piszemy prosty kod
- 
- 
-

# Zasada Pareto



# Zasada Pareto

**X%** KODU ODPOWIADA  
ZA **Y%** ZŁOŻONOŚCI/PROBLEMÓW

# Zasada Pareto

5% KODU ODPOWIADA  
ZA 95% ZŁOŻONOŚCI/PROBLEMÓW

# git log --pretty=format:'%ad %aN %s' --numstat

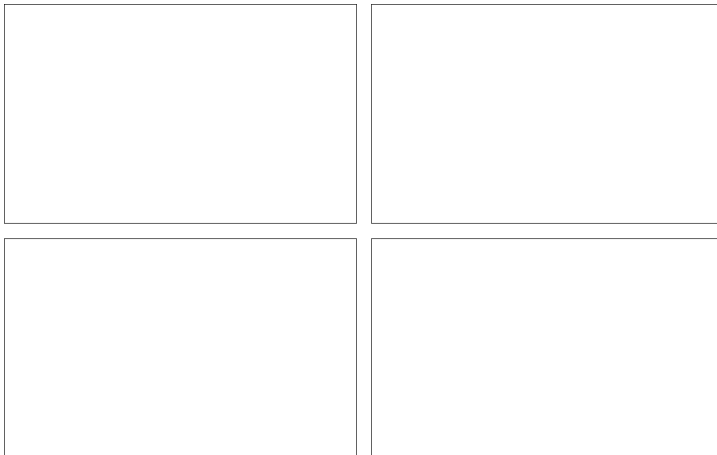
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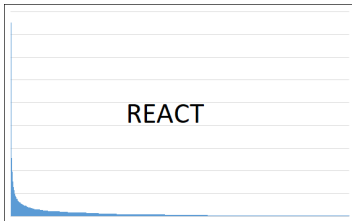
MINGW64:/c/work/employer-back
Tue Sep 4 11:02:45 2018 +0200 (Adrian) [EM-2175] Changing Person Mapper to replace empty JobTitle to null. (#463)
31 0 src/EmployerPortal.Test.Unit/Controllers/UserControllerTests.cs
3 1 src/EmployerPortal/Mappers/PersonMapper.cs

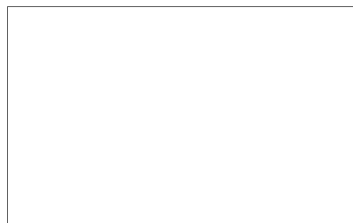
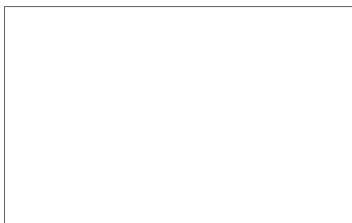
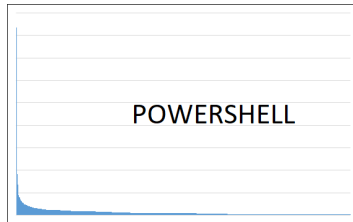
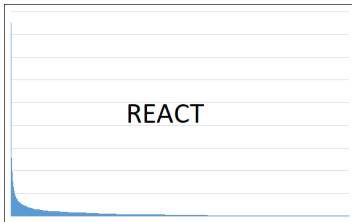
Fri Aug 31 10:18:42 2018 +0200 v-maire EM-2163 [Company Information] Add Signatory Information panel to the ... (#460)
1 0 src/EmployerPortal.Domain/Models/PersonDto/PersonDto.cs
117 0 src/EmployerPortal.Test.Integration/Controllers/SignatorAccountControllerTests.cs
46 0 src/EmployerPortal/Controllers/SignatorAccountController.cs
30 0 src/EmployerPortal/Validators/DigitalAccount/CreateSignatorAccountValidator.cs
3 0 src/EmployerPortal/Validators/User/UserViewModelValidator.cs
16 0 src/EmployerPortal/ViewModels/DigitalAccount/CreateSignatorAccountRequest.cs
2 0 src/EmployerPortal/ViewModels/User/UserViewModel.cs

Mon Aug 27 12:55:56 2018 +0200 v-maire EM-2150 Implementation EMP (#458)
0 2 src/EmployerPortal.Domain/Services/Order/VoucherOrderService.cs
1 1 src/EmployerPortal.Test.Integration/Controllers/UserControllerTests.cs
7 4 src/EmployerPortal.Test.Integration/EmployerPortal.Test.Integration.csproj
1 14 src/EmployerPortal.Test.Unit/Common/FluentValidation/TestExtensions.cs
7 4 src/EmployerPortal.Test.Unit/EmployerPortal.Test.Unit.csproj
1 1 src/EmployerPortal.Test.Unit/ModelValidation/AddressRequestForVoucherOrderValidatorTests.cs
3 3 src/EmployerPortal.Test.Unit/ModelValidation/AddressValidatorTests.cs
1 1 src/EmployerPortal.Test.Unit/ModelValidation/AddressWithTypeValidatorTests.cs
20 5 src/EmployerPortal.Test.Unit/ModelValidation/BeneficiaryViewModelValidatorTests.cs
0 156 src/EmployerPortal.Test.Unit/ModelValidation/BusinessIdValidatorTests.cs
1 1 src/EmployerPortal.Test.Unit/ModelValidation/ChangeBeneficiaryRequestValidatorTests.cs
2 9 src/EmployerPortal.Test.Unit/ModelValidation/CreateCompanyRequestValidatorTests.cs
1 1 src/EmployerPortal.Test.Unit/ModelValidation/CreatePaymentRequestValidatorTests.cs
1 1 src/EmployerPortal.Test.Unit/ModelValidation/CreateUserRequestValidatorTests.cs
|

```



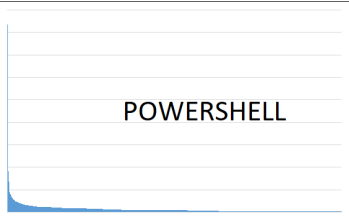




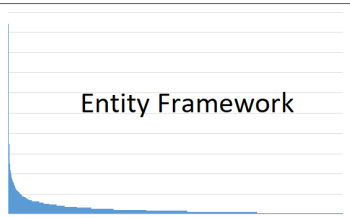




REACT



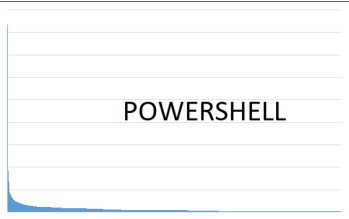
POWERSHELL



Entity Framework



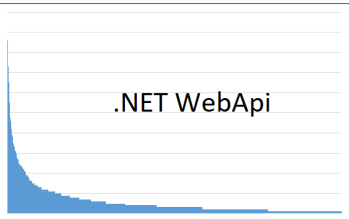
REACT



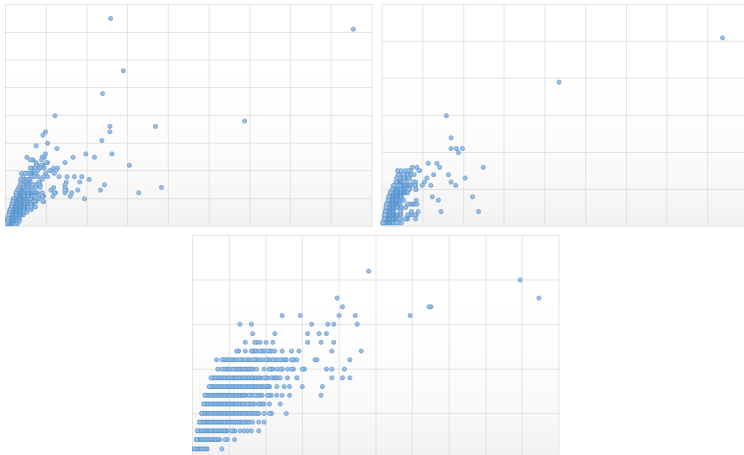
POWERSHELL



Entity Framework



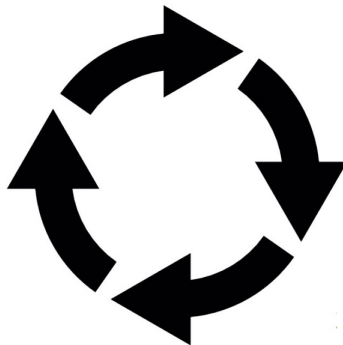
.NET WebApi



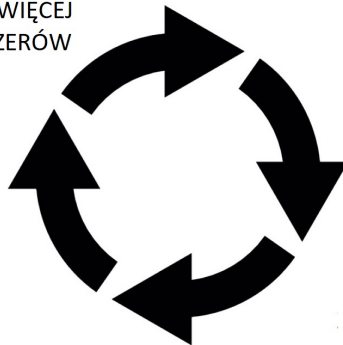
- Piszemy czysty kod
- Piszemy prosty kod
- Monitorujemy gdzie narastają odsetki
- 
-



# PGF

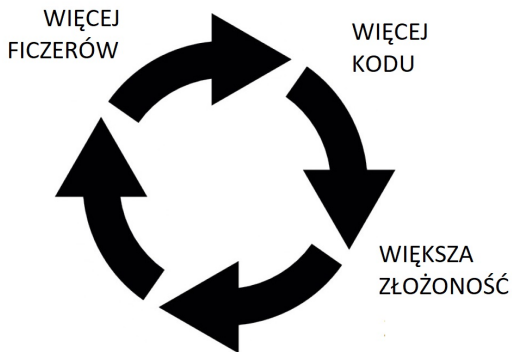


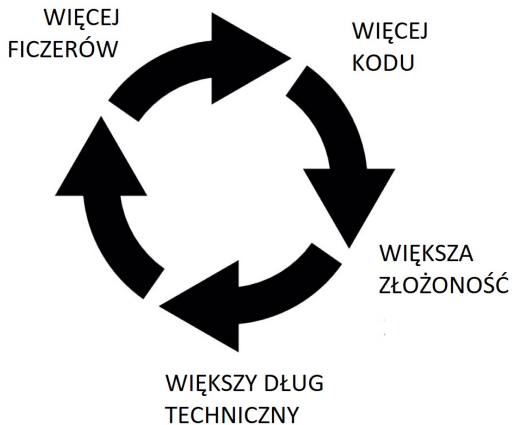
WIĘCEJ  
FICZERÓW

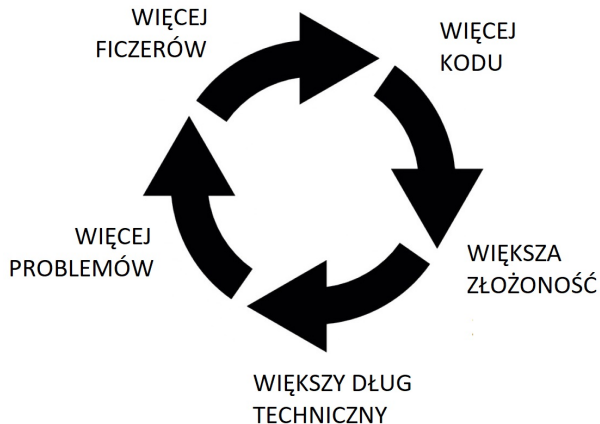


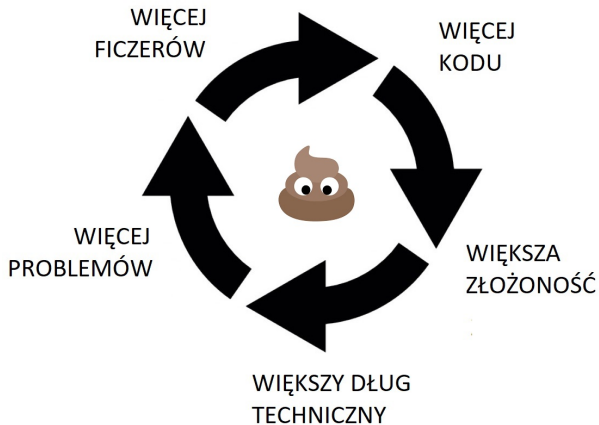




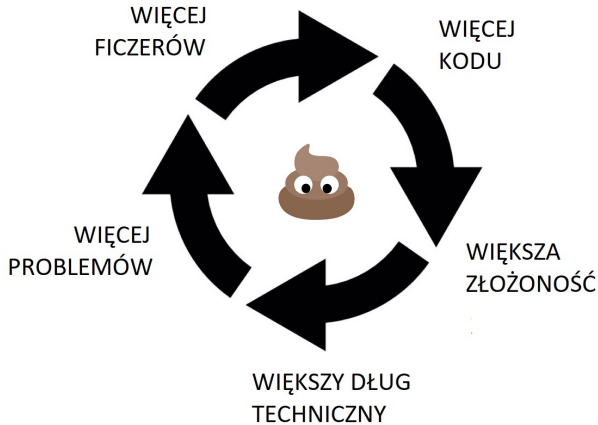






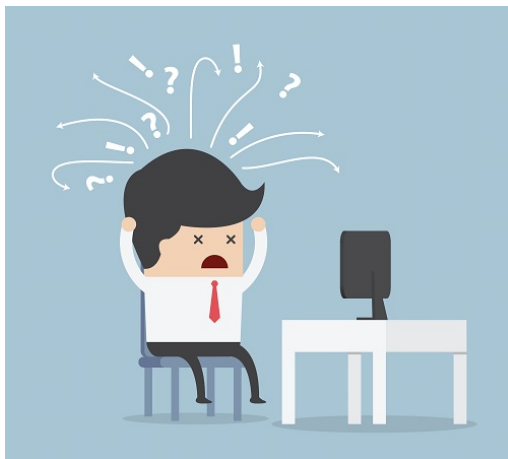


# Pętla gnijących ficzerów



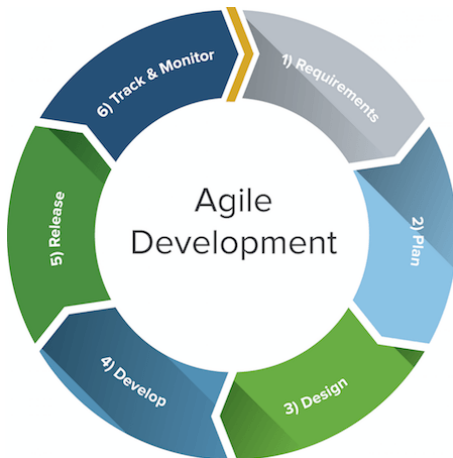
- Piszemy czysty kod
- Piszemy prosty kod
- Monitorujemy gdzie narastają odsetki
- Usuwamy nieużywane funkcjonalności
-

# Co jest problemem?





# Wymagania



We cannot be agile if our code sucks...

- Piszemy czysty kod
- Piszemy prosty kod
- Monitorujemy gdzie narastają odsetki
- Usuwamy nieużywane funkcjonalności
- Traktujemy siebie jako profesjonalistów

# Pytania?

# Dziękuję!

e-mail: [amularczyk@pgs-soft.com](mailto:amularczyk@pgs-soft.com)