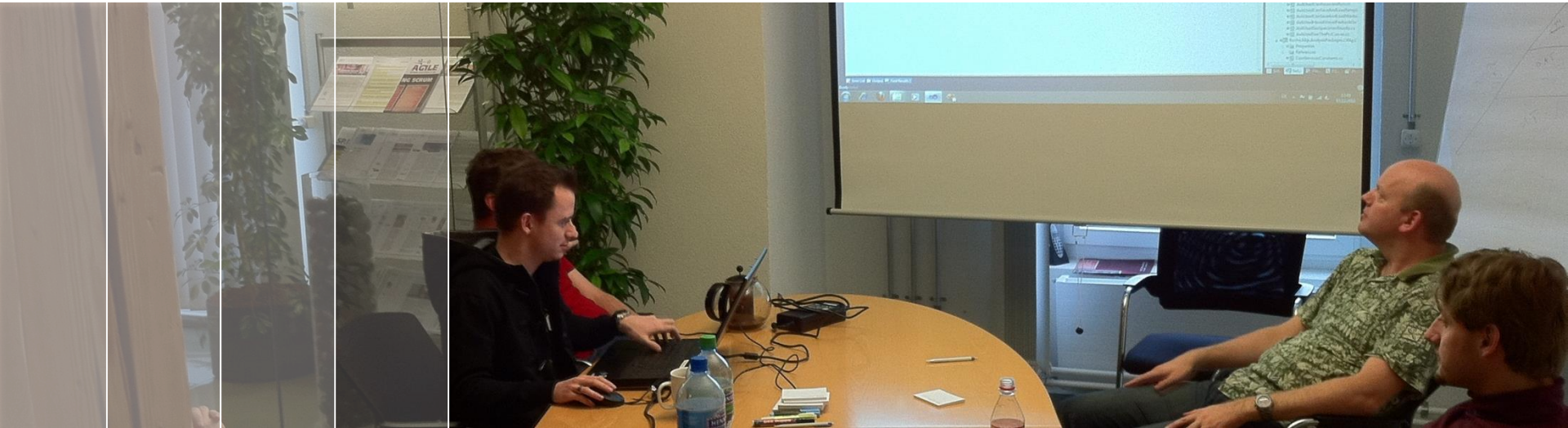
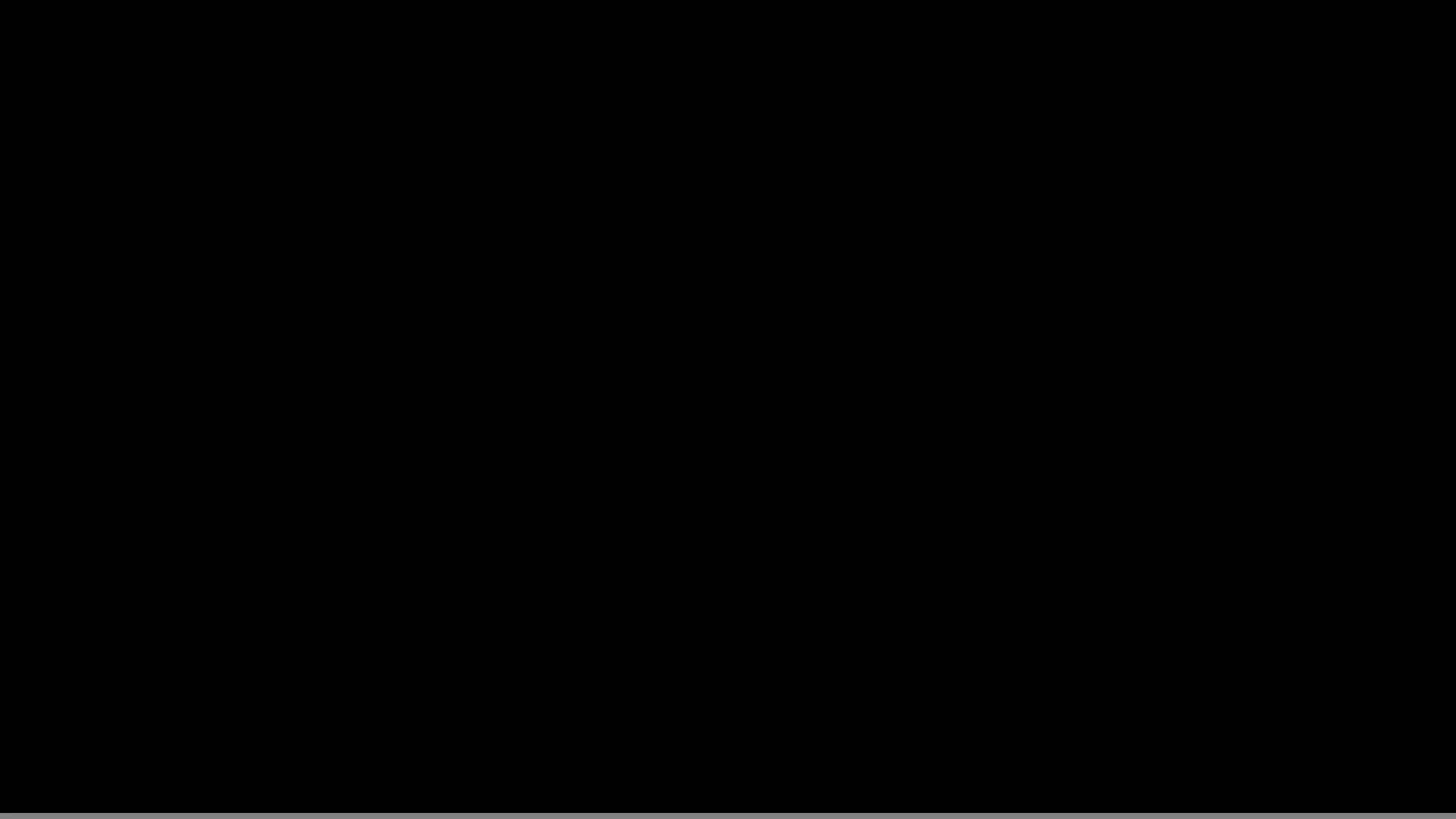
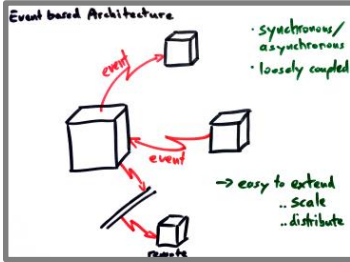


Was macht ein Agiler Softwarearchitekt so den ganzen Tag?

UrsENZler @ursenzler



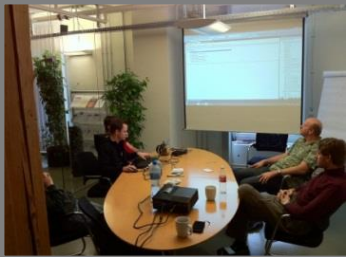




lead technically



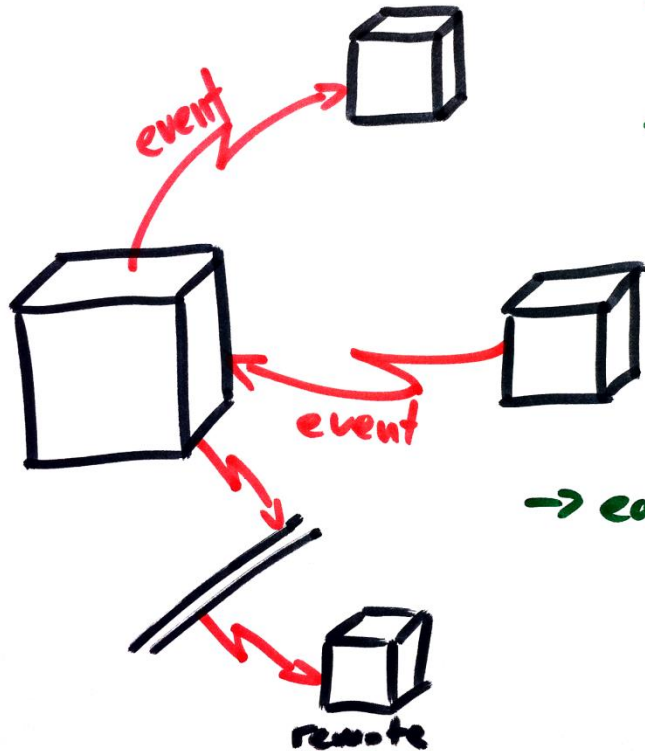
understand stakeholders



coach the team

lead technically

Event based Architecture



- synchronous/asynchronous
- loosely coupled

→ easy to extend
.. scale
.. distribute

technology

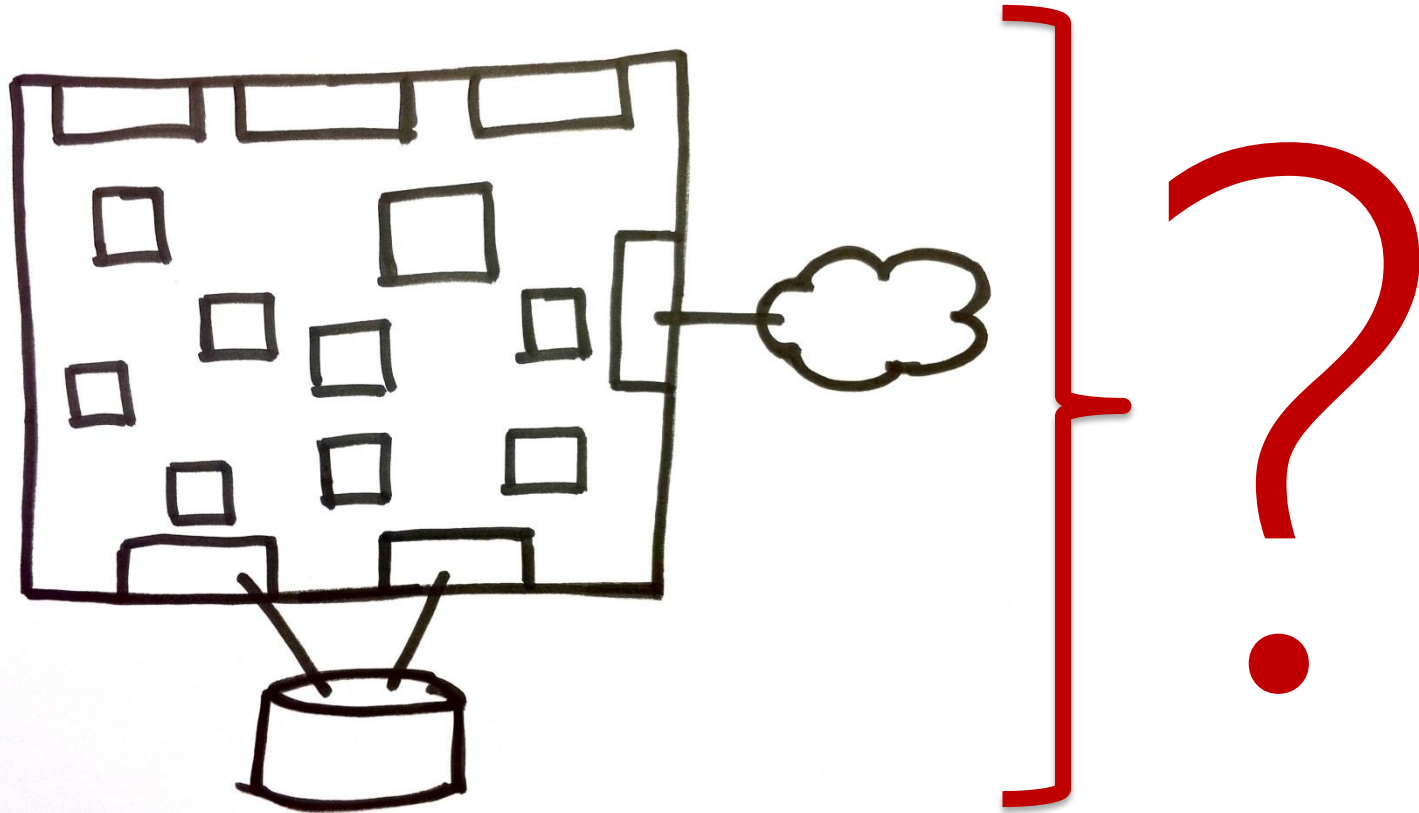
evangelist

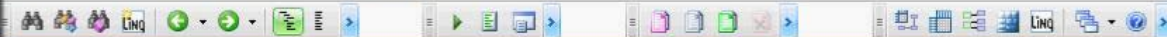




technical spikes

write non-functional specifications





Code Queries

- Code Quality (18 queries)
- Code Quality Regression (12 queries)
- Object Oriented Design (13 queries)
- Design (14 queries)
- Architecture and Layering (9 queries)
- API Breaking Changes (9 queries)
- Code Diff Summary (25 queries)
- Test and Code Coverage (13 queries)
- Dead Code (4 queries)
- Visibility (8 queries)
- Purity - Immutability - Side-Effects (9 queries)
- Naming Conventions (17 queries)
- Source Files Organization (6 queries)
- .NET Framework Usage (29 queries)
- Statistics (12 queries)
- Samples of Custom rules (16 queries)
- Defining JustMyCode (4 queries)
- Rules extracted from Source Code (0 query)

Active	#Items	Code Queries and Rules
<input checked="" type="checkbox"/>		0 Types too big - critical
<input checked="" type="checkbox"/>		0 Methods too complex - critical
<input checked="" type="checkbox"/>		22 Methods with too many parameters - critical
<input checked="" type="checkbox"/>		123 Quick summary of methods to refactor
<input checked="" type="checkbox"/>		77 Methods too big
<input checked="" type="checkbox"/>		2 Methods too complex
<input checked="" type="checkbox"/>		33 Methods potentially poorly commented
<input checked="" type="checkbox"/>		42 Methods with too many parameters
<input checked="" type="checkbox"/>		0 Methods with too many local variables
<input checked="" type="checkbox"/>		0 Methods with too many overloads
<input checked="" type="checkbox"/>		14 Types with too many methods
<input checked="" type="checkbox"/>		0 Types with too many fields
<input checked="" type="checkbox"/>		1 Types with poor cohesion
<input type="checkbox"/>		2 misplaced unit tests
<input checked="" type="checkbox"/>		3 misnamed unit tests
<input checked="" type="checkbox"/>		0 missing TestFixture
<input checked="" type="checkbox"/>		7 modules referencing types from other namespaces
<input checked="" type="checkbox"/>		0 find classes without unit tests

Info

Show Info in Tooltip

Global Summary

Project Name: **officeatwork**Project File: <C:\Projects\officeatwork\officeatwork.ndproj>Analysis Date: **Wed 07 Nov 16:48** (11 days ago) most recent Analyzed by NDepend v4.0.1.6475Application **officeatwork**

IL instructions : 154 279
 # lines of code (LOC) : 16 408
 # lines of comment : 9 771
 Percentage Comment : 37%
 # Assemblies : 13
 # Namespaces : 269
 # Types : 1 520
 # Methods : 5 789
 # Fields : 2 814

Coverage:

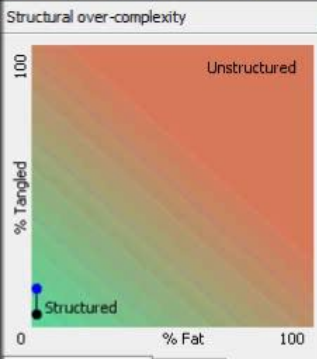
Percentage Coverage : N/A because no coverage data specified
 # Lines of Code Covered : N/A because no coverage data specified
 # Lines of Code Not Covered : N/A because no coverage data specified

Third party code used by the application:
 # Third party Assemblies used : 45

Error List

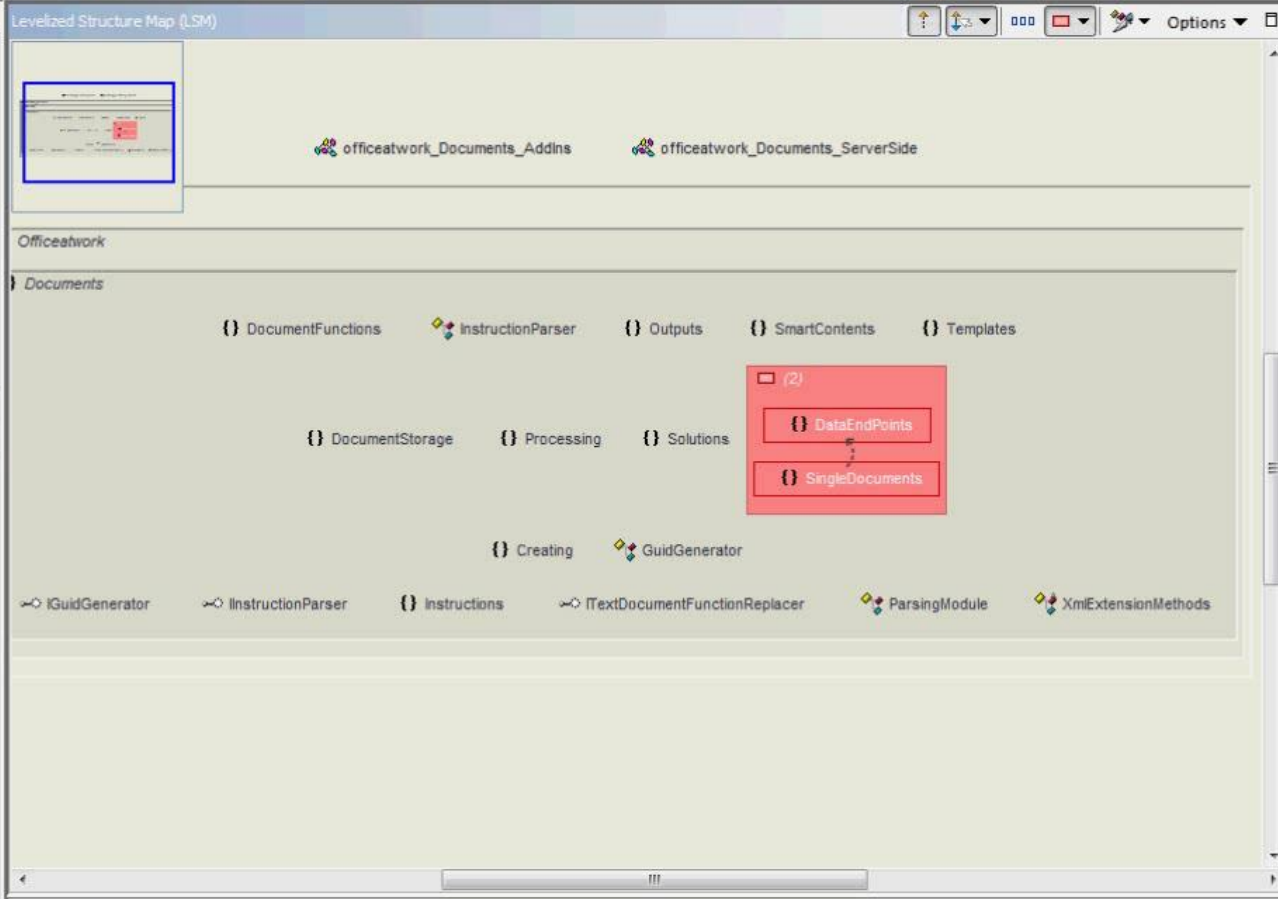
 0 Error
 10 Warnings
 0 Disabled Warning
 12 Messages

Disabled Description



Namespace tangles Fat items

Item	Size
{ } officeatwork_Documents.Of...	2'431
{ } officeatwork_Documents_Se...	644



Split classes (125) Notables

#C	...	Name
3	31	officeatwork_Docum...
3	71	officeatwork_Docum...
3	201	officeatwork_Docum...
3	76	officeatwork_Docum...
3	55	officeatwork_Docum...
2	149	officeatwork_Docum...
2	76	officeatwork_Docum...
2	242	officeatwork_Docum...
2	129	officeatwork_Docum...
2	307	officeatwork_Docum...
2	71	officeatwork_Docum...
2	76	officeatwork_Docum...
2	84	officeatwork_Docum...
2	18	officeatwork_Docum...
2	40	officeatwork_Docum...
2	55	officeatwork_Docum...
2	50	officeatwork_Docum...

Map contents

Items Tabs Depends Feedback

Action list: "List 1"

#	Action
1	Move officeatwork_Documents.Off...

write code

```
public IDefinitionSyntax<TQuestion, TAnswer, TParameter, TExpressionResult> Solve<TQuestion, TAnswer, TParameter, TExpressionResult>(TQuestion question, TParameter parameter, TExpressionResult expressionResult)
{
    var existingDefinition = this.definitionHost.FindDefinition<TAnswer>(typeof(TQuestion));

    IDefinition<TQuestion, TAnswer, TParameter, TExpressionResult> definition;

    if (existingDefinition == null)
    {
        definition = this.definitionFactory.CreateDefinition<TQuestion, TAnswer, TParameter, TExpressionResult>(question, parameter, expressionResult);
        this.definitionHost.AddDefinition(definition);
    }
    else
    {
        definition = (IDefinition<TQuestion, TAnswer, TParameter, TExpressionResult>)existingDefinition;
    }

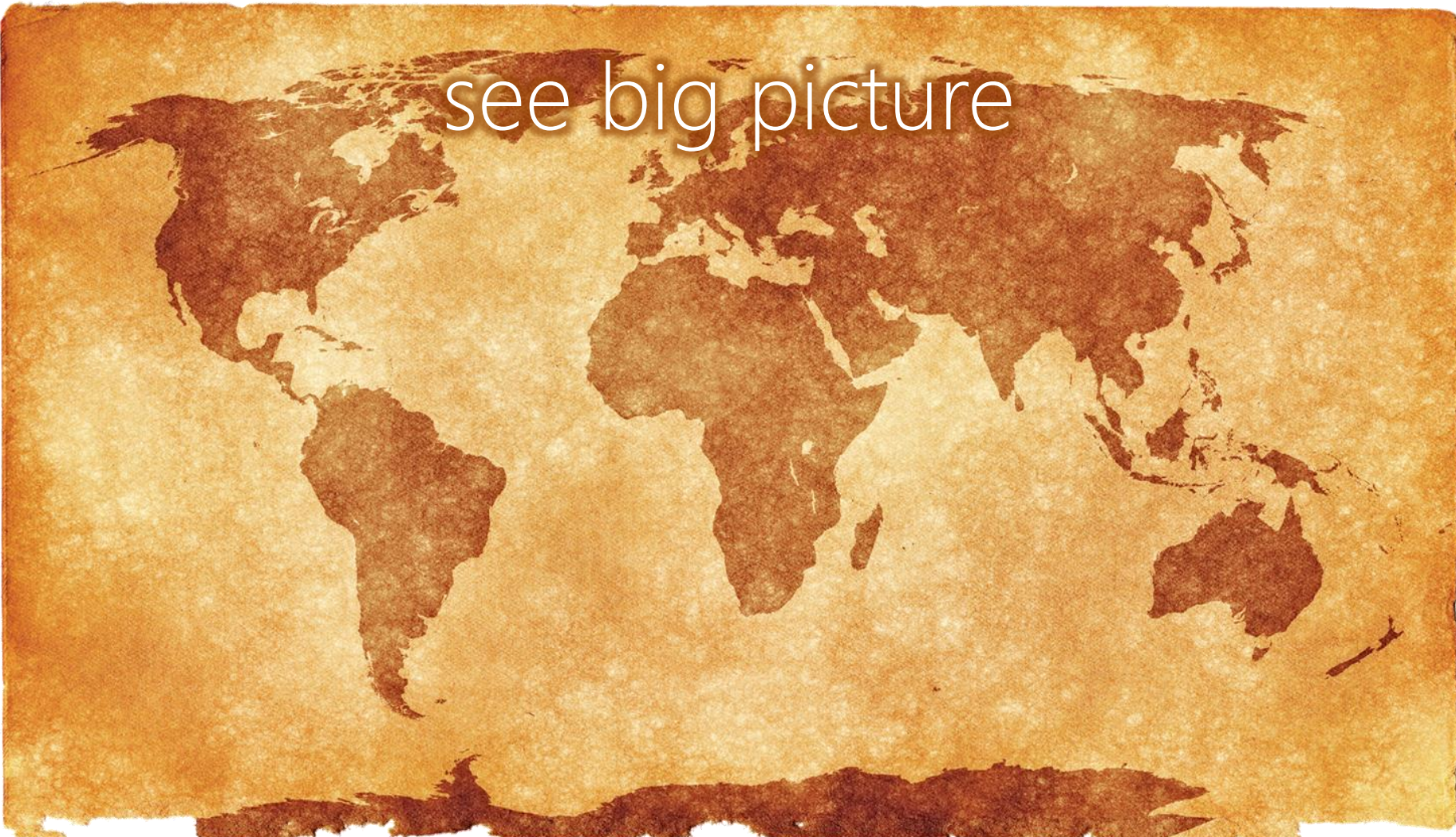
    var builder = this.definitionSyntaxFactory.CreateDefinitionSyntax(definition);

    return builder;
}
```

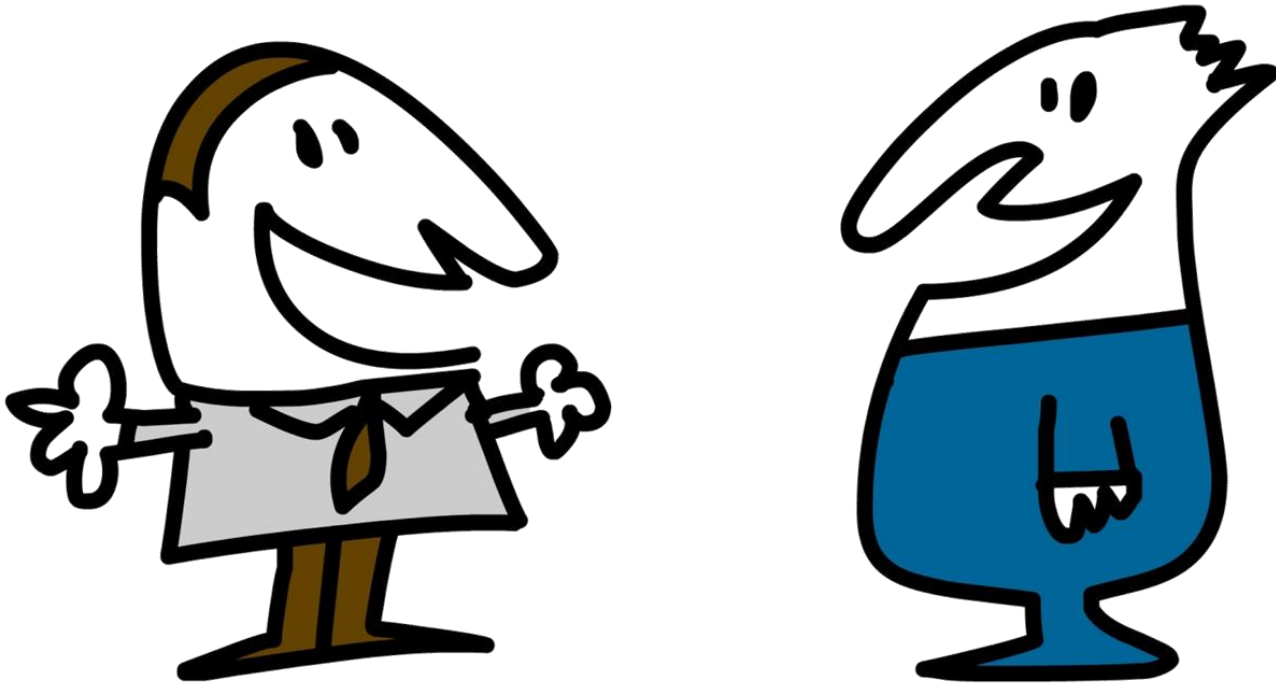
understand stakeholders



see big picture



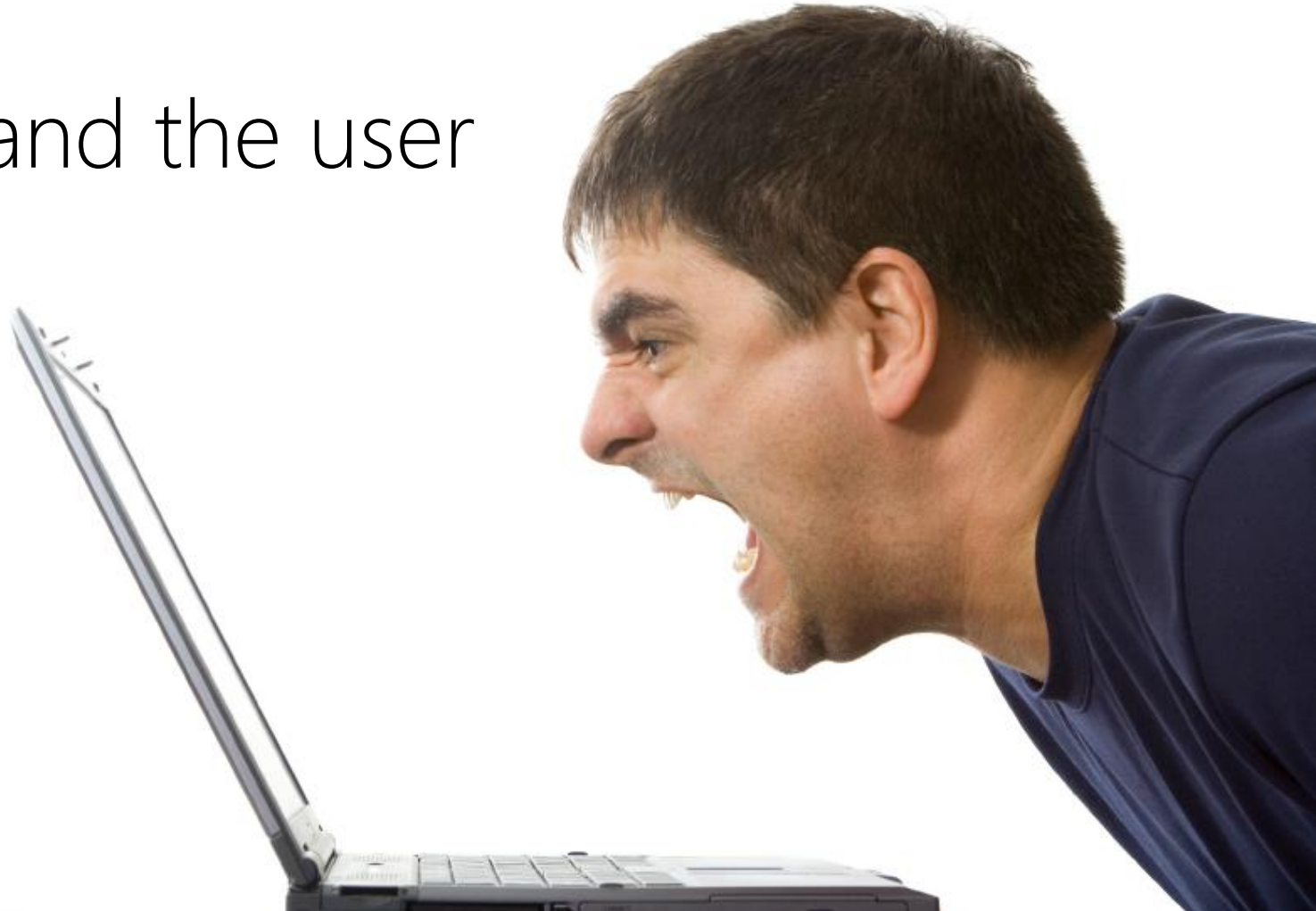
talk to stakeholders



learn about all view points



understand the user





help the PO

help identify,
consolidate and
prioritize backlog items



Wait, wait, wait!



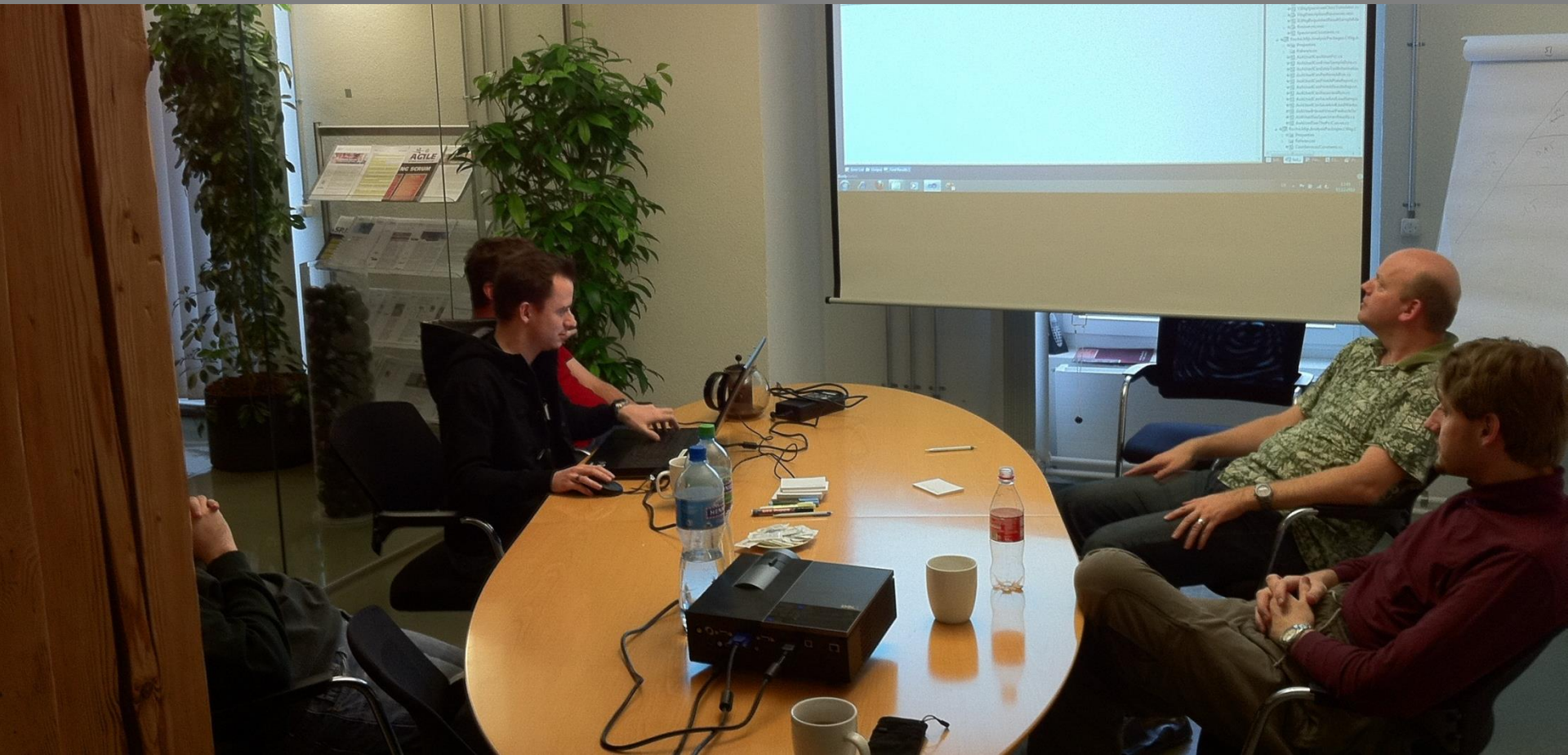
Are you talking about a person or role?



role

person

coach the team



architecture
and design is
team work

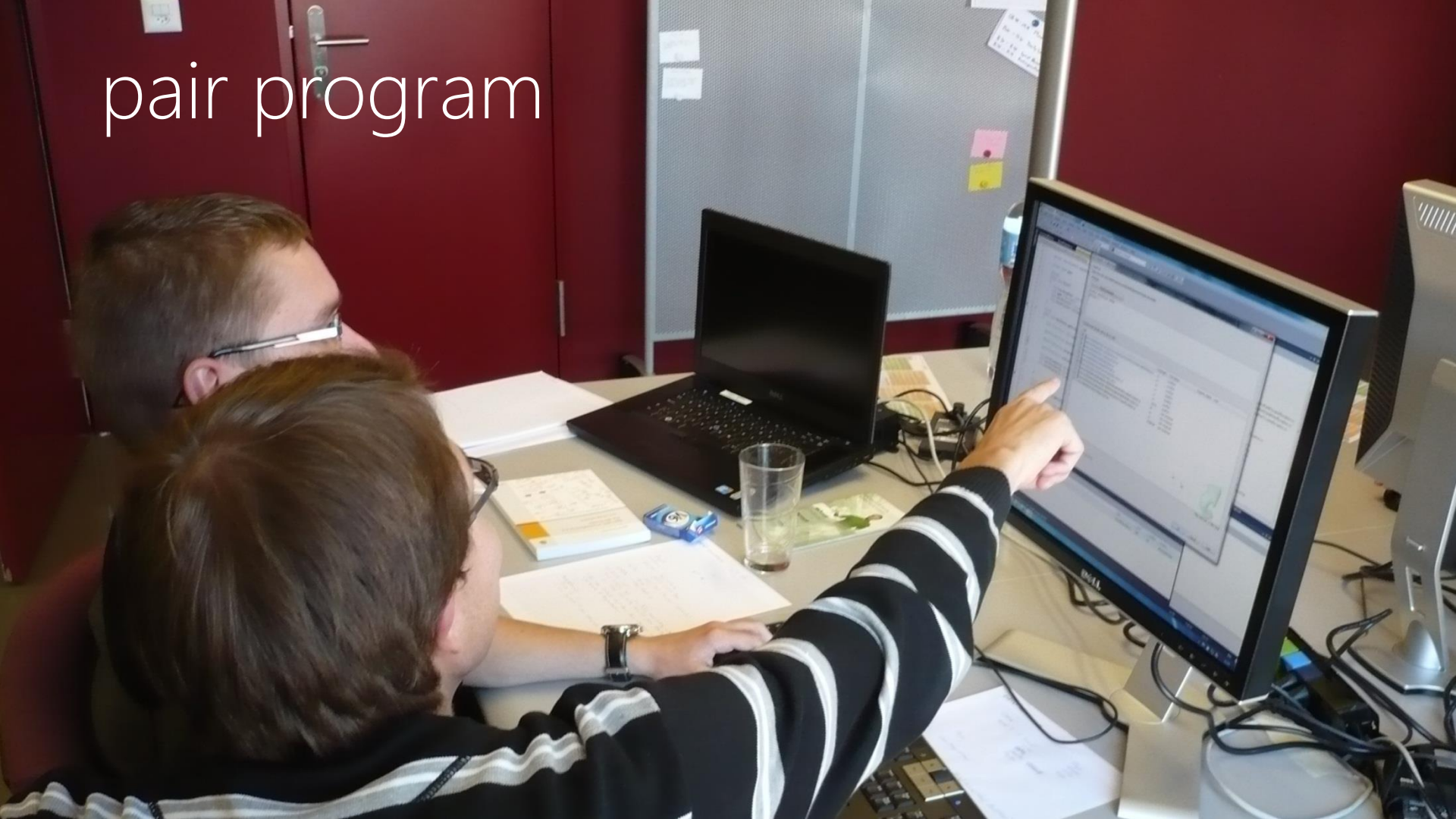




coordinate

<http://www.sxc.hu/profile/giraffedog>

pair program



educate



support SM

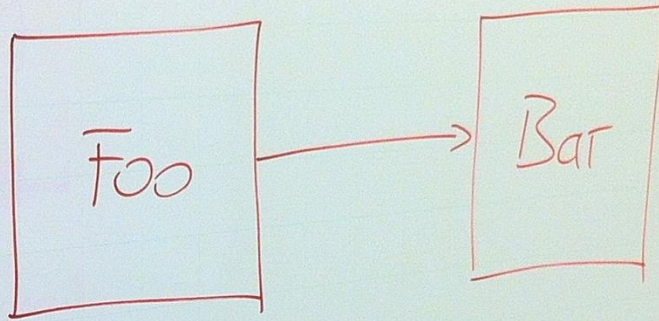
finding ways to work more
effectively and efficiently

you want to be an agile architect?



Communicate





use effective tools

be part of the team



learn to be a good
designer



A woman with long dark hair and blue eyes, wearing a black blazer, is smiling and looking towards the camera. She is holding two white rectangular signs. The sign in her left hand (viewer's right) says "YES" in large black capital letters. The sign in her right hand (viewer's left) says "NO" in large black capital letters. The background is a solid light green color.

NO

YES

make sure decisions are made



Urs Enzler

urs.enzler@bbv.ch

OSS lead:

Appccelerate

blog:

www.planetgeek.ch

www.bbv.ch/blog

twitter:

@ursenzler

user group: www.dotnet-zentral.ch

