

"Der Code ist Dokumentation genug!"

- Peter Herklotz, 2007

File structure

```
pom.xml  
src/  
  \ main/  
    \ java/  
      \ com/  
        \ sqlag/  
          \ slides/  
            \ HelloWorld.java  
.git/
```

HelloWorld.java

```
package com.sqlag.slides;  
  
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello World!");  
    }  
}
```

**"Der Code ist
nie
Dokumentation genug!"**

- Peter Herklotz, 2008

Developers Documentation Dilemma

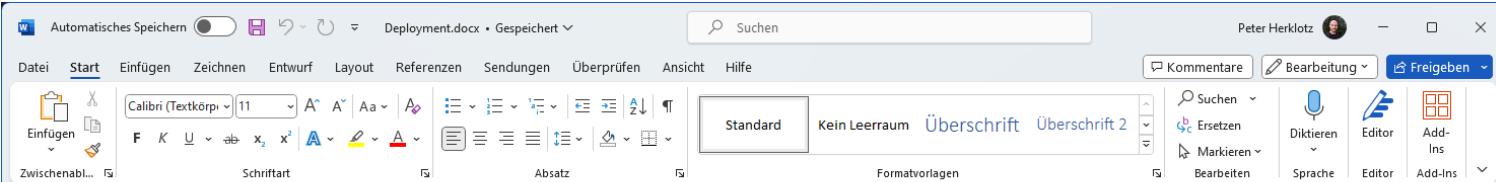


Writing/updating
documentation

be annoyed
by
missing/incorrect
documentation

Can the right tool help?

Lets try a few things!



Deployment Guide

Application: HelloWorld

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Word file on a local machine

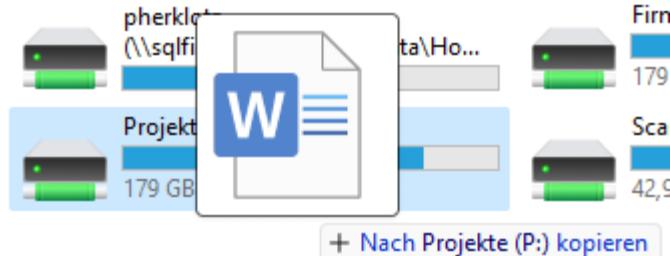
⚠️ Benefits

💡 Documentation is possible

⚠️ Problem

👤 Only editable by one person

✓ Solution



Word file on a network drive

👉 Benefits

 Documentation is possible

 Editable by different persons

⚠ Problem

 Not versioned

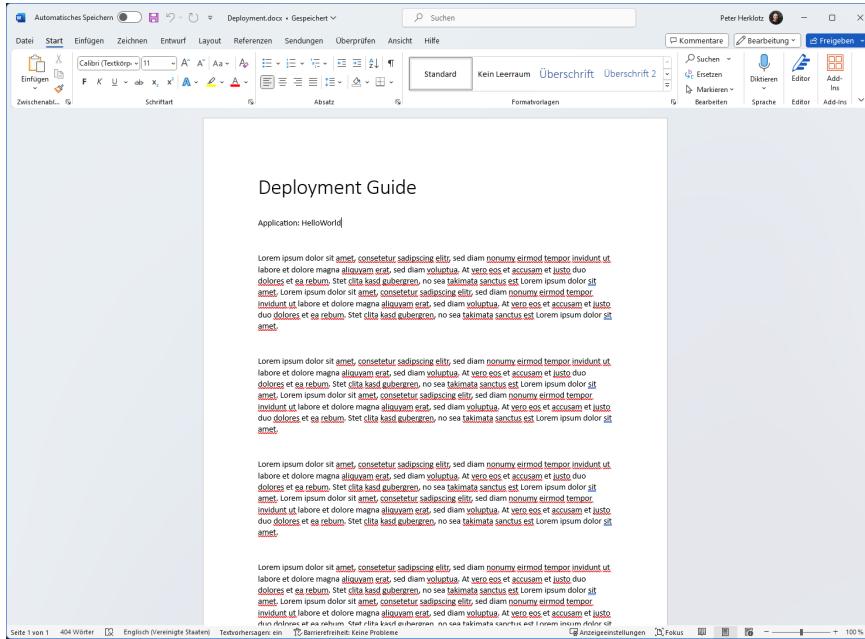
✓ Solution



File structure

```
pom.xml  
Deployment.docx  
src/  
└ main/  
    └ java/  
        └ com/sqlag/slides/  
            └ HelloWorld.java  
.git/
```

Deployment.docx



Word file in version control system

⚠️ Benefits

-  Documentation is possible
-  Editable by different persons
-  Versioned

⚠️ Problem

-  No diff

✓ Solution

Text Format

```
# Deployment Guide
```

```
Application: [HelloWorld](https://example.com/HelloWorld)
```

File structure

```
pom.xml  
Deployment.md  
src/  
└ main/  
    └ java/  
        └ com/sqlag/slides/  
            └ HelloWorld.java  
.git/
```

Deployment.md

# Deployment Guide	
Name [HelloWorld](https://example.com/HelloWorld)	
--- ---	
Language Java	

Table 1: Application information

Output

Deployment Guide

Name	HelloWorld
Language	Java

Table 1: Application information

Markdown

⚠️ Benefits

-  Documentation is possible
-  Editable by different persons
-  Versioned
-  Diffs are possible

⚠️ Problem

-  Limited expressions

✓ Solution

AsciiDoc

```
= Deployment Guide
```

```
Application: <a href="https://example.com>HelloWorld[HelloWorld]
```

Asciidoctor

👉 Benefits

- ⚠ Documentation is possible
- ⚠ Editable by different persons
- ⚠ Versioned
- ⚠ Diffs are possible
- ⚠ More markup expressions

File structure - HelloX

```
pom.xml  
Deployment.adoc  
src/  
└ main/  
    └ java/  
        └ com/sqlag/slides/  
            └ HelloX.java  
.git/
```

HelloX.java

```
package com.sqlag.slides;  
  
import java.util.ServiceLoader;  
import java.util.function.Supplier;  
/**  
 * ...  
 */  
public class HelloX {  
    /**  
     * ...  
     */  
    public static void main(String[] args) {  
        var serviceLoader = ServiceLoader.load(Supplier.class);  
        serviceLoader.forEach(  
            sup -> System.out.println("Hello "+sup.get())  
        );  
    }  
}
```

File structure - WorldSupplier

```
pom.xml  
src/  
└ main/  
    └ java/  
        └ com/sqlag/worldsupplier/  
            └ WorldSupplier.java  
└ resources/  
    └ META-INF/services/  
        └ java.util.function.Supplier  
.git/
```

Asciidoctor

⚠️ Benefits

- ⚠️ Documentation is possible
- ⚠️ Editable by different persons
- ⚠️ Versioned
- ⚠️ Diffs are possible
- ⚠️ More markup expressions

⚠️ Problem

- ⚠️ Multi Repository Documentation

✓ Solution

Antora

The multi-repository documentation site generator for tech writers who ❤️ writing in AsciiDoc.

File structure - HelloX

```
...
docs/
  |- modules/
  |  |- ROOT/
  |  |  |- pages/
  |  |  |  |- Deployment.adoc
  |  |  |- nav.adoc
  |  |- antora.yml
antora-playbook.yml
```

antora.yml

```
name: hellox
title: Hello X
version: ~
display_version: ""
start_page: Deployment.adoc
nav:
  - modules/ROOT/nav.adoc
```

antora-playbook.yml

```
site:
  title: Hello X Documentation
  start_page: hellox::Deployment.adoc
content:
  sources:
    - url: .
      start_path: docs
      branches: HEAD
    - url: https://url.to.git/world-supplier-repo
      start_path: docs
      branches: main
```

File structure - WorldSupplier

```
...
docs/
  |- modules/
  |  |- ROOT/
  |  |  |- pages/
  |  |  |  |- Deployment.adoc
  |  |  |- nav.adoc
  |  |- antora.yml
```

Antora

⚠️ Benefits

- ⚠️ Documentation is possible
- ⚠️ Editable by different persons
- ⚠️ Versioned
- ⚠️ Diffs are possible
- ⚠️ More markup expressions
- ⚠️ Multi Repository Documentation

⚠️ Problem

⚠️ Diagrams

✓ Solution

Kroki

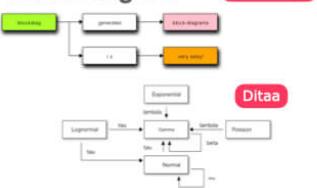
Kroki Diagrams Zoo

creates diagrams from textual descriptions by Yuzu tech

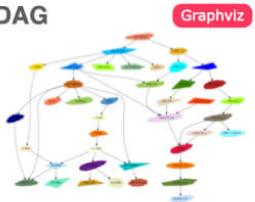


Common Graphs

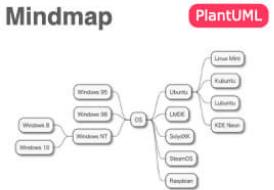
Block Diagram



DAG



Mindmap

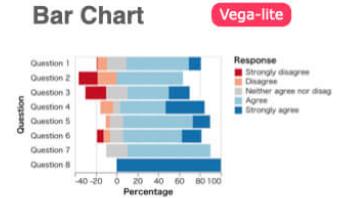


Data Visualization

Word Cloud

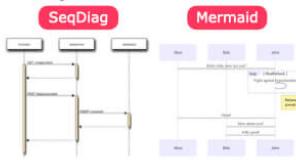


Bar Chart

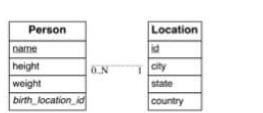


UML/ C4

Sequence



E-R



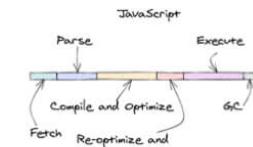
Project Management

WBS

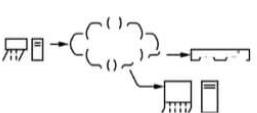


Freestyle

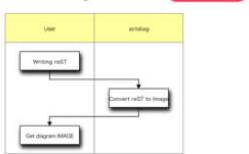
Hand-drawn look



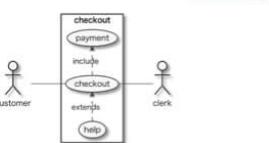
Ascii Art



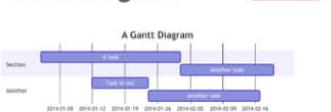
Activity



Use Case

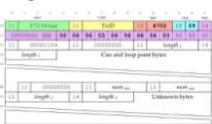


Gantt Diagram

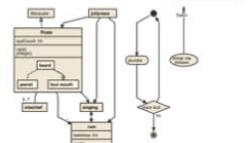


Hardware

Byte Field



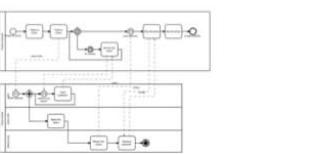
UMLs



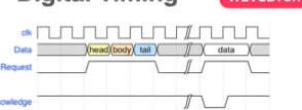
C4 Diagram



Business Process



Digital Timing



Network



Packets



Rack



Kroki

👉 Benefits

- ⚠ Documentation is possible
- ⚠ Editable by different persons
- ⚠ Versioned
- ⚠ Diffs are possible
- ⚠ More markup expressions
- ⚠ Multi Repository Documentation
- ⚠ Diagrams

⚠ Problem

💬 Editorial Style Guide

✓ Solution

```
jdkato@jdkato: ~/Desktop/docs

789:50 suggestion 'is involved' looks like Microsoft.Passive
                  passive voice.
794:12 suggestion Consider using 'more or extra' Microsoft.ComplexWords
                  instead of 'additional'.
810:78 error      Use 'they're' instead of 'they' Microsoft.Contractions
                  are'
```

File structure

```
...
.vale.ini
styles/
└ Microsoft
  ├ ComplexWords.yml
  └ ...
...
```

.vale.ini

```
StylesPath = styles
MinAlertLevel = suggestion
Packages = Microsoft
[asciidoc]
experimental = YES
attribute-missing = drop
[*]
BasedOnStyles = Vale, Microsoft
```

ComplexWords.yml

```
extends: substitution
message: "Consider using '%s' instead of '%s'."
link: https://docs.microsoft.com/en-us/style-guide/word-choice/us
ignorecase: true
level: suggestion
action:
  name: replace
swap:
  "approximate(?:ly)?": about
  abundance: plenty
  accelerate: speed up
  ...
  ...
```

Tooling

-  Documentation is possible
- Git
 -  Editable by different persons
 -  Versioned
- AsciiDoc
 -  Diffs are possible
 -  More markup expressions
- Antora
-  Multi Repo. Doc.
- Kroki
-  Diagrams as text
- Vale
-  Editorial Style Guide

And what is with AI?

Thank you!

 @pherklotz61

@ peter.herklotz@sql-ag.de

 Peter Herklotz