Pillar, one format for all supports

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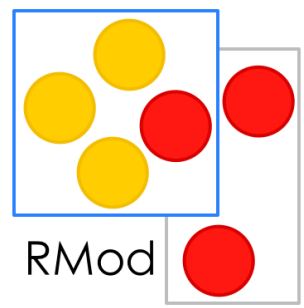

1. Pillar
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Currently

- LaTeX
  - Complicated
  - Hard to debug
  - Hard to convert to HTML
- Markdown
  - Incomplete
  - Incompatible Inplementation
  - Few output formats

Why Pillar ?

We wanted something :

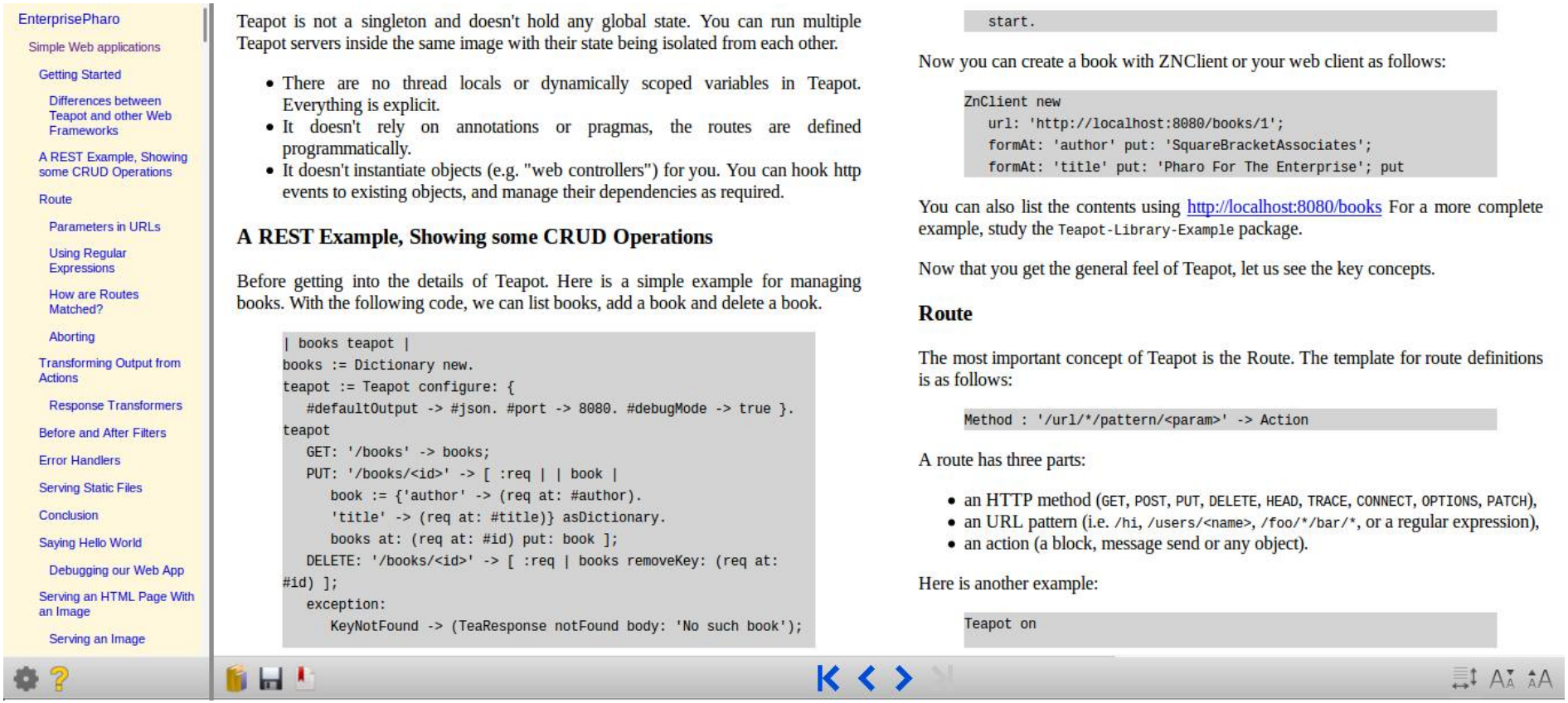
- Easier than LaTeX
- More complete than Markdown

Pillar

Pillar

- One input, many outputs (e.g. HTML, LaTeX, ePub)

Pillar - EPub export



Pillar

- One input, many outputs (e.g. HTML, LaTeX, ePub)
- Slides / Books / Websites
- Textual syntax
- Easy to Extend
- Easy to use

Pillar - Easy syntax

```
!Example
This is an example of Pillar file.
*Link>http://pharo.org*
-Unordered Item
-Unordered Item
#Ordered Item
#Ordered Item
[[[language=smalltalk|label=How to say Hello
Transcript show: 'Hello !'.
]]]
|!Harder |!Better
|Faster  |Stronger
|More Than  |Ever
+Figure>file://path/to/the/file.png|width=80+
```

Advanced features

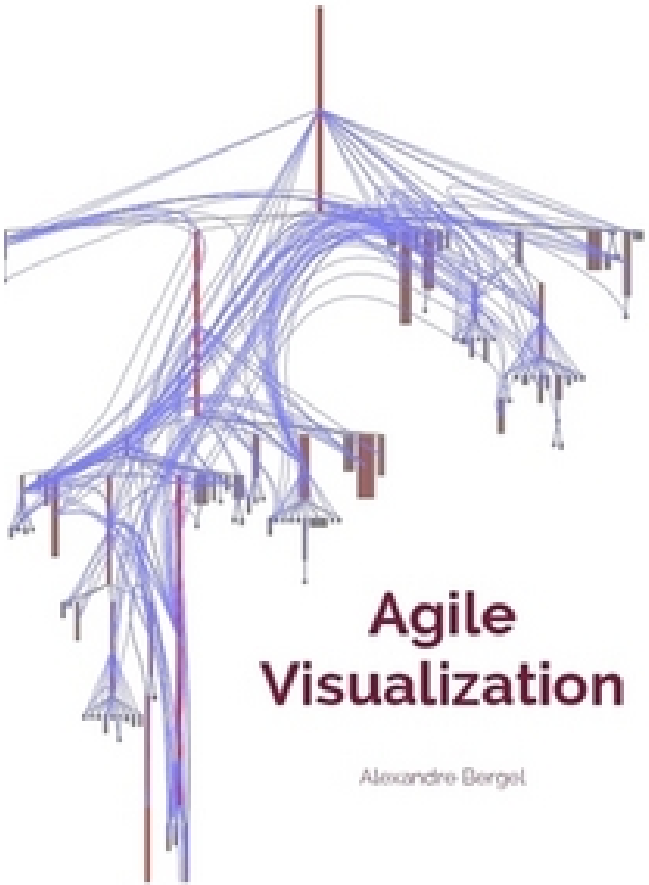
- ${}$ annotation syntax
- Slides ${slide :Slide name}$
- ${myAnnotation :arg1=1|arg2=2}$
- Consistency in syntax [[[language=smalltalk|arg1=1|arg2=2]]]
- Evaluate a smalltalk script

Pillar use cases

Books written with Pillar

- Enterprise Pharo : A Web Perspective
- Agile Virtualization
- Pharo By Example

Books written with Pillar



Presentations

- Beamer
- DeckJs

This presentation itself is written in Pillar

Other use cases

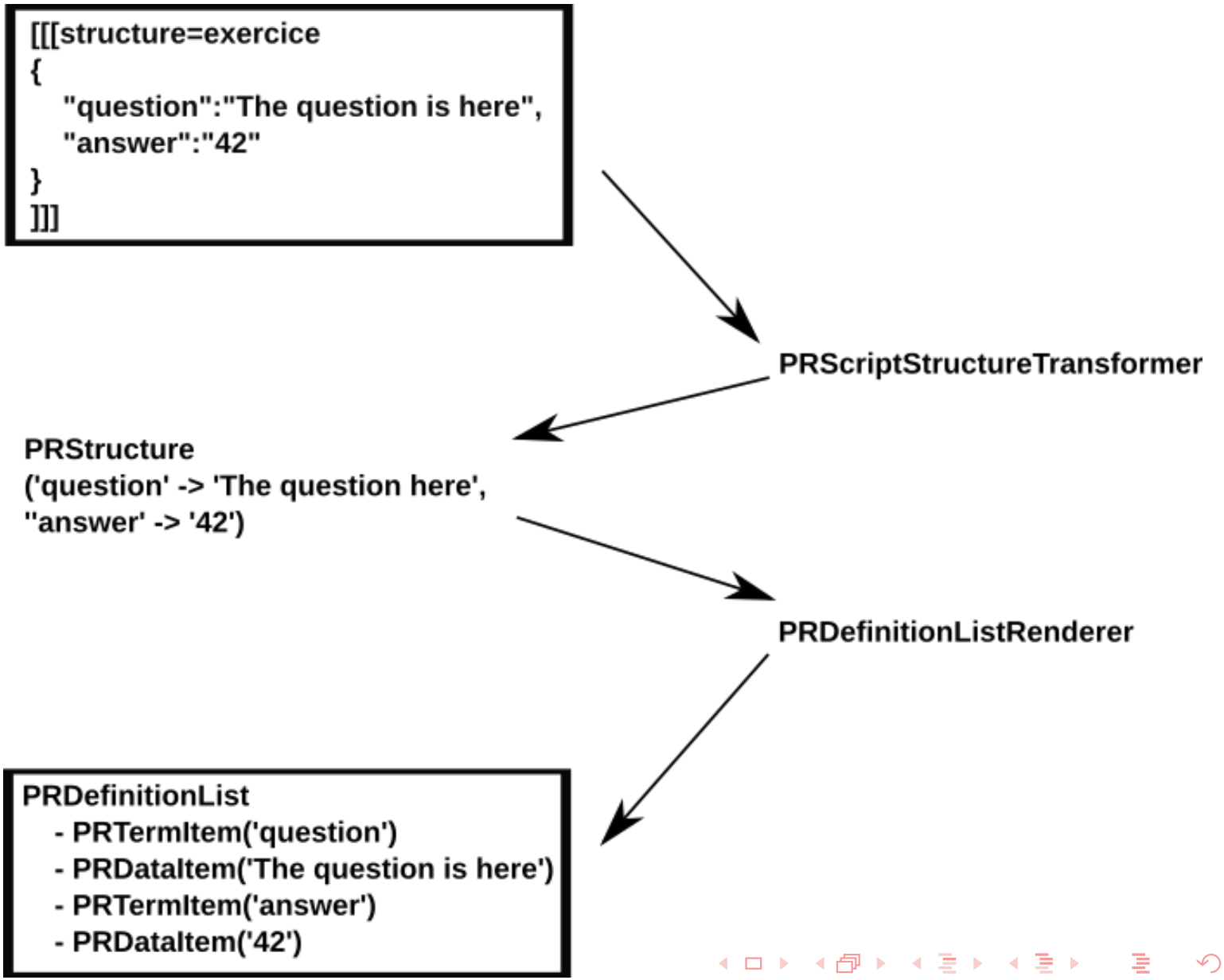
- Ecstatic : Static Websites, Guillermo Polito / Stéphane Ducasse (http ://guillep.github.io/ecstatic)
- PillarHub, Mike Filonov (http ://pillarhub.pharocloud.com/)

What's new in Pillar 4.0

Pillar 4.0 - Structures

- Dissociate form the shape
- Easy to use
- Provide from formatting mistakes

Structures - How does it work



Pillar 4.0 - Other features

- Footnotes ${footnote :Text to put in the footnote}$
- Citations ${cite :REF1713}$
- Header Capitalization
- Hideable Scripts

Make utilisation easier

Hell on boot project

- Where is my configuration file ?
- Where are templates ?
- I am bored of copy/paste parts of configuration file
- Where did I put my pillar files ?

Pillar Archetypes - Skeleton maker

- Simple utilisation
- Build a project base with example files
- Many archetypes (Book / Slides / Beginner)

```
./pillar archetype book
```

Pillar Archetype - How does it work ?

Makefile Archetypes

- Makefile adapted to each Archetypes
- Separated Makefiles

Makefile Job

- Begin with a pillar file

Makefile Job

first.pillar

```
{
   "metadata": {
      "title" :"Say Hello World"
   }
}
!Hello World
```

Makefile Job

- Pass through Pillar

```
$(OUTPUTDIRECTORY)/%.html.json: %.pillar copySupport
  ./pillar export --to="html" --outputFile=$@ $<
```

Makefile Job

first.html.json

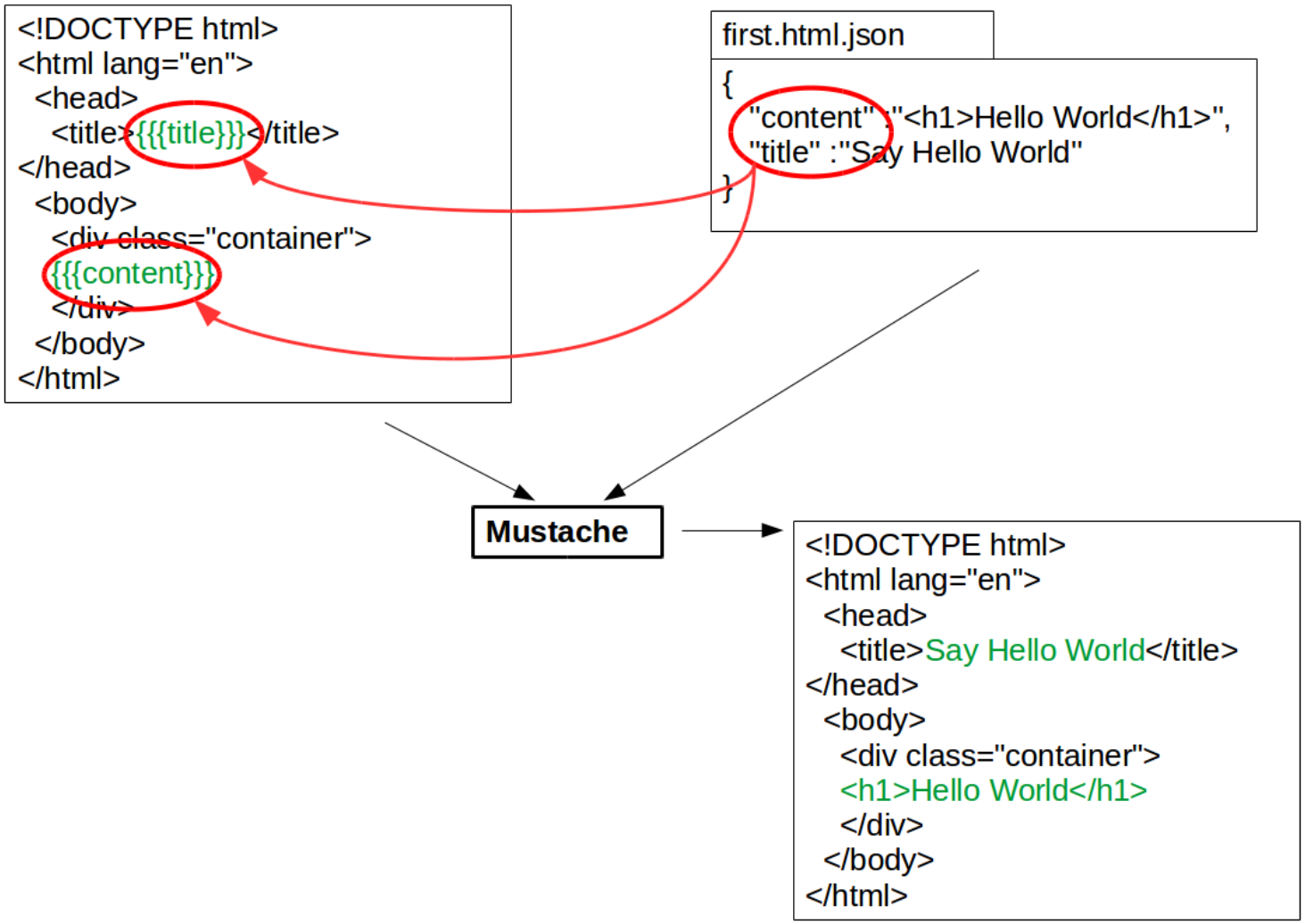
```
{
   "content" :"<h1>Hello World</h1>",
   "title" :"Say Hello World"
}
```

Makefile Job

- Pass through a template System

```
./mustache --data=$< --template=${HTMLTEMPLATE} > $@
```

Makefile Job



Demo Time

Conclusion

Future Works

- Pharo comments in Pillar
- Mobi Exporter
- Math expressions in LaTeX
- We have a lot of suggestions from community

Conclusion

- Easy to Extend
- Easy Syntax
- Lot of output
- Easier Compilation
- Possibility to use other tools for templating

For more informations

https ://ci.inria.fr/pharo-contribution/job/EnterprisePharoBook/lastSuccessfulBuild/artifact/book-result/PillarChap/Pillar.html