# IMPROVING PILLAR GENERATION PROCESSES



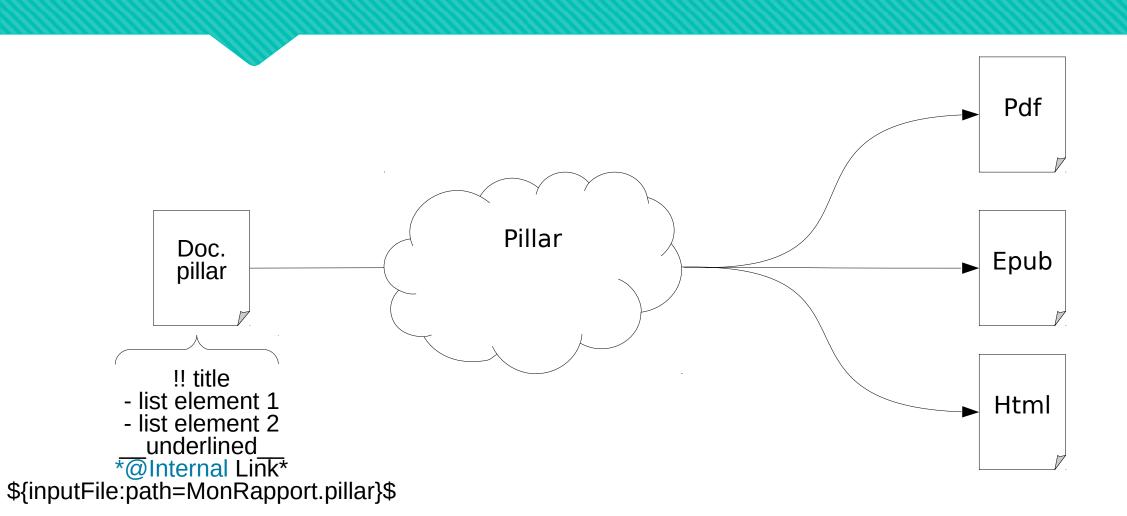


Biyalou-Sama Asbathou

### Plan

- Context
- Problems
- Solutions
- Demo
- Next Steps

### Context



### **Problems**

- Html templates were not in good state
- No Easy Hosting
- Compilation was not efficient
- Errors Handling and Reporting were not good

### My Main Contributions

- Propose new archetypes for books and personal websites
- Implement a pillar module to generate table of contents
- Automatic deploy platform using Continuous Integration
- Blogging / News list components

### A new archetype for Html

- Get some existing templates from another template engine
- Adapt templates to Mustache template system
- Manage support files (css, img, js ...) to have an archetype

## New Book Archetype Example

Pharo Book

#### 1

- > About Pillar
- > Installing Pillar and Creating a Booklet
- > Pillar core syntactic elements
- > Specific markup
- > Templates (draft)
- > Pillar from Pharo (To be updated)
- > Setting Up Travis
- > Deploying your documents
- Deploy your html books using Travis and > Github Pages
- > Pillar cheatsheet

### PUBLISHING DOCUMENTS WITH PILLAR 7.0

The current document is a little tutorial to show you how to begin with the creation of booklet. It describes the installation, customisation and integration with travis and bintray online services. From that perspective it can be mapped to other integration services.

We will use bintray to store the latest pdf produced by travis and we will use github to store the released pdf.

#### **About Pillar**

Pillar is a system to manage documents (books, presentations, web sites). It is able to emit resulting documents in multiple formats (html, markdown, latex, AsciiDoc). It is composed of several modules such as importers, transformers, document model and outputers.

This book describes Pillar in its current version 7.0. Pillar is currently developed and maintained by Stéphane Ducasse and Guillermo Polito. The original author of Pillar was Damien Cassou. Many people have also contributed to Pillar: Ben Coman, Guillermo Polito, Lukas Renggli (original author of Pier from which a first version of Pillar has been extracted), Benjamin van Ryseghem, Cyril Ferlicot-Delbecque, Thibault Arloing and Yann Dubois.

This book adapts, extends, clarifies the chapter explaining Pillar in the Enterprise Pharo: a Web Perspective book.

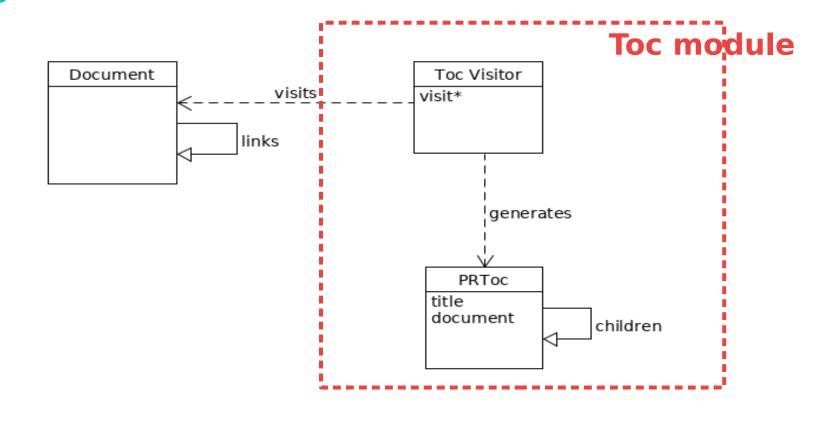
Pillar was sponsored by ESUG.

#### Introduction

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### Pillar Toc module



## Rendering the TOC

#### Pharo Book

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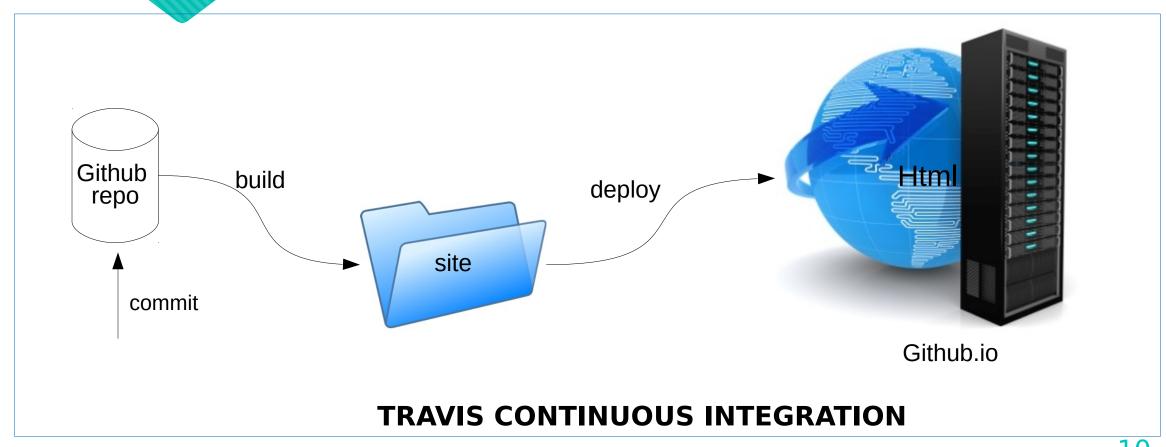
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### Introduction

### Automatic Deploy: Github + Travis



### Personal Sites Archetype

**GUILLERMO POLITO** 

About me Projects Research Activities Publications Coordinates



Guillermo Polito

Mastering objects

#### About me

Coding enthusiast. Mad hatter. Software engineer and researcher.

I am currently working as a post-doc researcher at Vrije Universiteit Brussel, on security for programming languages in cloud computing applications.

My main topics of interests are the runtime adaptation of applications, Virtual Machine design and development, and programming language tools. For that, I work on reflective applications and programming languages. I participate in the open source community of the Pharo programming language and environment.

I obtained the 13 of april 2015 my Phd entitled "Virtualization support for application runtime specialization and extension" under the direction of Stéphane Ducasse (Inria Rmod team) and the supervision of Noury Bouragadi and Luc Fabresse(CAR team of Mines Douai).

Hove coding. I spend a lot of my free time helping the amazing community of Pharo. I also participate in several projects such as the Pharo's database driver suite (DBXTalk), it's shortcut framework, or the static web page generator Ecstatic.

#### Awards

- 2013 "1st prize" of the ESUG innovation technology awards presenting Oz Recovery Tools.
- 2012 "2nd prize" of the ESUG innovation technology awards presenting
- 2011 "3rd prize" of the ESUG innovation technology awards presenting Ozono(formerly LOOP) in conjunction with Nicolas Passerini, Gisela Decuzzi, Carla Griggio and German Leiva.

#### News

23-10-2015 I will be @Pittburgh for SPLASH'15. I'll present there two papers on the

03-07-2015 I will be @Prague for ECOOP'15. I'll present Pharo there and we will do some fun coding!

22-05-2015 I got two papers accepted in Onward!15. Thanks to everybody that collaborated, and see you @Pittsburg!

### Demo



### **Next Steps**

- Blogging Plugin for personal sites
- New system of compilation : Mike
- Review the way warnings and errors are reported

### Conclusion

POLITO About me Projects Research Activities Publications Coordinates



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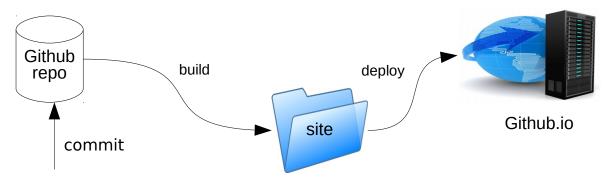
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### TRAVIS CONTINUOUS INTEGRATION

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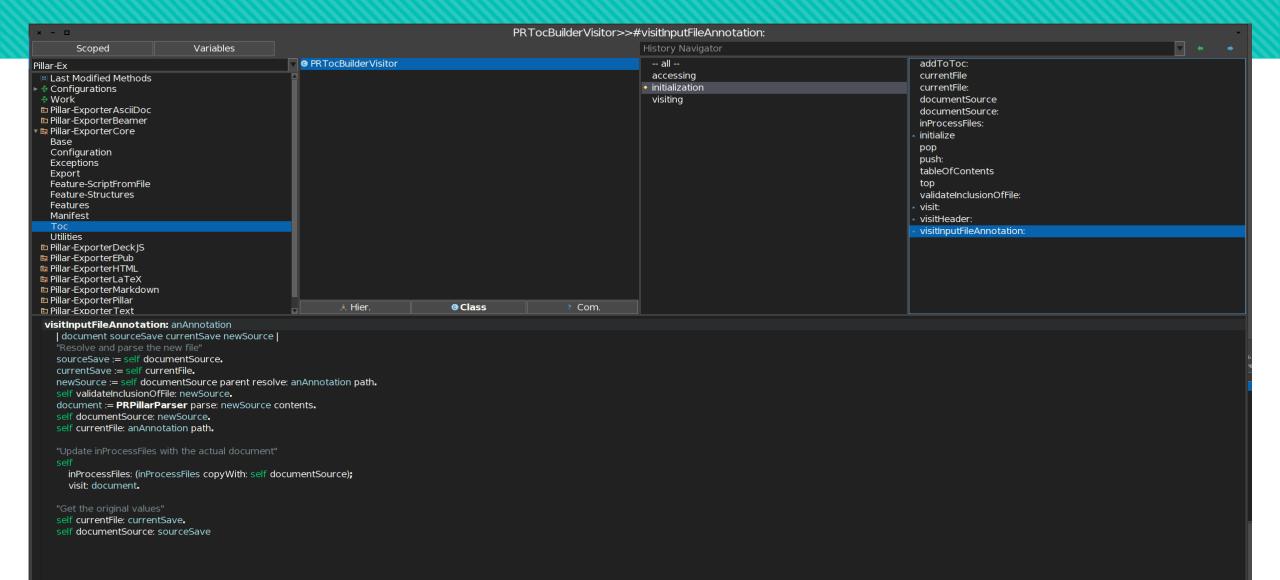
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### **Toc Visit**



### **Toc Tests**

- actualClass createCyclicPillarFile1 createPillarFile1 createPillarFile2 createPillarFile3
- setUp
- tearDown
- testDocumentWithCyclicInputShouldRaiseError
- testDocumentWithInputAnnotationAndTitle
- testDocumentWithInputAnnotationContainsMultipleTocs
- testDocumentWithInputAnnotationHasTocs
- testDocumentWithOnlyInputAnnotation
- testDocumentWithoutInputAnnotationOnlyContainsTitles
- testTitlesHaveGoodFileRefs
- testTocChildrenHasTheSameLevel
- testTocHasGoodLevelOfChildren
- testTocHasOneChildren
- testTocIsEmpty
- testTocOnlyContainsTocs

# Travis config

```
language: smalltalk
os:
    - linux
smalltalk:
    - Pharo-6.1
env:
  matrix:

    JOB=test TYPE=System ARCHETYPE=book OUTPUT=html

install:
    # Pillar installation
    - git clone https://github.com/pillar-markup/pillar.git .pillar -b dev-7 # Clone pillar
    - cd .pillar && ./scripts/build.sh && cd ..
script:

    pillar/build/pillar build html

    cd result/html && touch .nojekyll && cd ..

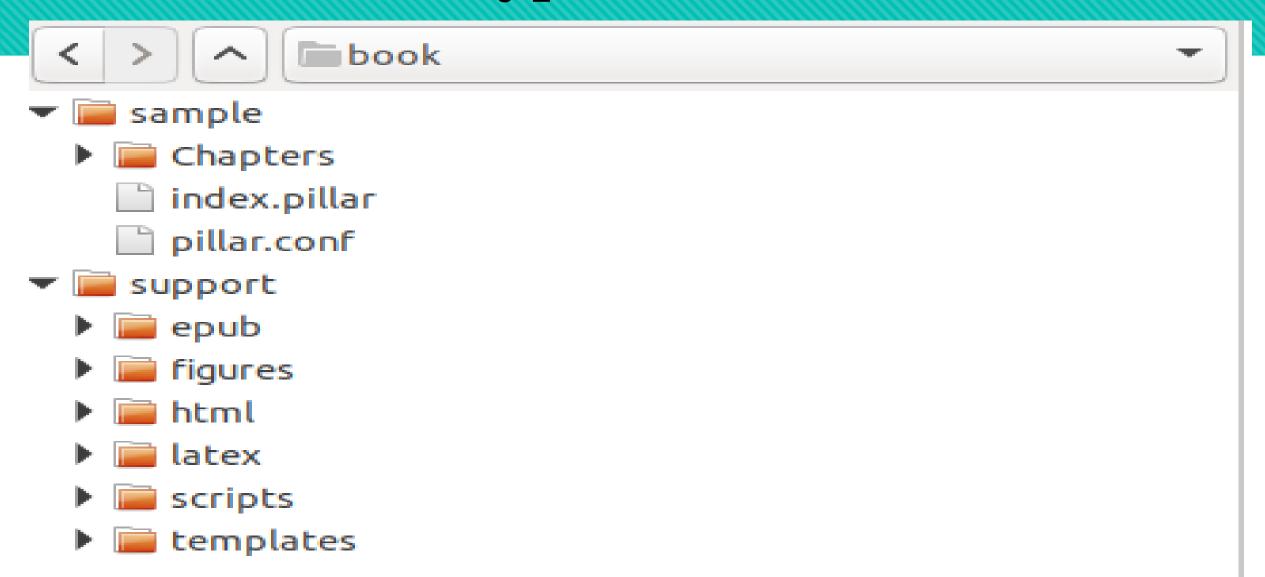
deploy:
   provider: pages
   skip-cleanup: true
   github-token: $GH TOKEN
   keep-history: true
   local dir: result/html
```

on:

# Mustache template New archetype

```
5 </header>
6 <article>
  <aside>
    data-nav-id="123" class="dd-item">
            <a href="{{base url}}">
                 <i class="fa fa-fw fa-home"></i>
            </a>
      {{# toc.children }}
              <a href="{{base url}}{{href}}">
                              {{name}}
                    {{# hasChildren}} <i class="fa fa-angle-right fa-lg category-icon"></i> {{/ hasChildren}}
                    {{# children }}
                        <a href="{{base url}}{{href}}">
                                          {{name}}
                                    {{# hasChildren}}<i class="fa fa-angle-right fa-lg category-icon"></i>{{/ hasChildren}}
                              </div>
                              {{# children }}
                                    class="dd-item">
                                          <a href="{{base url}}{{href}}">{{name}}</a>
                                    {{/ children }}
                              {{/ children }}
                    {{/ toc.children }}
    </aside>
  <section class="page">
      <h1>{{title}}</h1>
      {{{content}}}
```

# Archetype architecture



# Pillar syntax

#### Headers

!Header 1

!!Header 2

!!!Header 3

#### Special Paragraphs

Annotation @@note this is a note

Todo @@todo this is todo

#### Lists

Unordered List # Ordered List

; Description Term : Description Definition

#### Text Formats

""bold""

"italic"

--strikethrough--

\_underscore\_\_

==monospace==

@@subscript@@

#### Comment

% each line starting with % is ignored

#### Tables

|| Centered Cell || Centered Title

|{ Left-Aligned Cell |} Right-Aligned Cell

#### Links

Anchor @anchor

Internal Link \*@anchor\*

External Link \*Google>www.google.fr\*

#### **Figures**

+Caption>file://pic.png|width=50|la bel=fig+

#### **Scripts**

[[[label=hello|language=Smalltalk Transcript show: 'Hello World'.

#### Raw

{{{latex:

injects raw \LaTeX in your output file

}}}

{{{html:

injects raw <b>html</b> in your output file

}}}