

JBAKE, ASCIIDOCTOR, GROOVY AND FRIENDS FOR MAKING A UNIVERSITY COURSE WEBSITE



WHO AM I?

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- Senior Software Architect at Cardlay A/S
- GR8Conf EU - Organizing Team Member
- External Associate Professor - University of Southern Denmark
- Groovy Ecosystem Nerd
-  @JacobAae

USECASE

-  *Course website at SDU where weekly notes and news items can be published easily*

REQUIREMENTS

- Semi-static Website
- Only HTML, Css, JS
- Weekly notes and small news items



And preferably build with Gradle with minimum installation

JBAKE

- Awesome for a static website
- Blog posts will work for weekly notes
- News items?
- Css and javascript can be added
 - How it can be added is included
 - Styling is not a focus in this talk

GETTING STARTED

INITIAL PROJECT

Create a build.gradle file with

```
plugins {  
    id 'org.jbake.site' version '5.0.0'  
}
```

Run

```
gradle wrapper --gradle-version 5.4.1  
./gradlew bakeInit
```

FILE STRUCTURE (1)

```
.  
├── build.gradle  
├── gradle  
│   └── wrapper  
│       ├── gradle-wrapper.jar  
│       └── gradle-wrapper.properties  
├── gradlew  
├── gradlew.bat  
└── README.adoc  
└── src
```

FILE STRUCTURE (2)

```
src
└── jbake
    ├── assets
    │   ├── css
    │   ├── favicon.ico
    │   ├── fonts
    │   └── js
    ├── content
    ├── jbake.properties
    ├── LICENSE
    ├── README.md
    └── templates
```

FILE STRUCTURE (3)

templates

```
└── archive.gsp
    ├── feed.gsp
    ├── footer.gsp
    ├── header.gsp
    ├── index.gsp
    ├── menu.gsp
    ├── page.gsp
    ├── post.gsp
    └── sitemap.gsp
        └── tags.gsp
```

FILE STRUCTURE (4)

```
content
└── about.html
└── blog
    └── 2013
        ├── first-post.html
        ├── fourth-post.adoc
        ├── second-post.md
        └── third-post.adoc
```

INITIAL BUILD AND RUN

```
./gradlew bake bakePreview
```

Served at <http://localhost:8080>

INITIAL BUILD AND RUN

JBake Home About Subscribe Dropdown ▾

Blog

Fourth Post

17 October 2013

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque vel diam purus. Curabitur ut nisi lacus.

- <http://example.org>
- [Example.org](#)

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Third Post

26 September 2013

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque vel diam purus. Curabitur ut nisi lacus.

- <http://example.org>
- [Example.org](#)

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BLOG POSTS - PREAMBLES

HTML

title=First Post

date=2019-05-26

type=post

tags=blog

status=published

~~~~~

```
<h1>HTML From here</h1>
```

# ASCIIDOCTOR

```
title=Third Post
date=2019-05-27
type=post
tags=blog, asciidoc
status=published
~~~~~
= Third Post
Jacob Aae Mikkelsen
2019-05-27
```

# **TEMPLATES**

# TEMPLATE ENGINES

- Groovy
- Freemarker
- Thymeleaf
- Jade

# GROOVY TEMPLATE ENGINES

- Groovy's SimpleTemplateEngine (.gsp .groovy)
- Groovy's XmlTemplateEngine (.gxml)
- Groovy's MarkupTemplateEngine (.tpl)

# TEMPLATE FOR BLOG

src/jbake/templates/post.gsp

```
<%include "header.gsp"%>
<%include "menu.gsp"%>

<div class="page-header">
 <h1>${content.title}</h1>
</div>
<p>${new java.text.SimpleDateFormat(
 "dd MMMM yyyy", Locale.ENGLISH).format(content.date)}</p>
<p>${content.body}</p>

<hr />
<%include "footer.gsp"%>
```

# **NEWS ITEMS**

- News items are not blog posts/weekly notes
- Short message

# CONFIGURE TEMPLATE

src/jbake/jbake.properties

```
template.news.file=news.gsp
```

# NEW TEMPLATE

src/jbake/templates/news.gsp

```
<%include "header.gsp"%>
<%include "menu.gsp"%>

<div class="page-header">
 <h1>${content.title}</h1>
</div>
<p>${new java.text.SimpleDateFormat(
 "dd MMMM yyyy", Locale.ENGLISH).format(content.date)}</p>
<p>${content.body}</p>

<hr />
<%include "footer.gsp"%>
```

# NEWS ITEM

src/jbake/content/news/item1.adoc

```
title=First news item
date=2019-05-27
type=news
tags=demo
status=published
icon=glyphicon-thumbs-up
~~~~~
= First news item
Jacob Aae Mikkelsen
2019-05-27
```

Demo for GR8Conf! Here it is

# INCLUDE IN MAIN SITE

```
<%newss.findAll{ it.status == 'published' }.each { newsItem -> %>
<h1>
    <span class="glyphicon ${newsItem.icon}" aria-hidden="true"></span>
    ${newsItem.title}
</h1>
<p>${new java.text.SimpleDateFormat("dd MMMM yyyy",
    Locale.ENGLISH).format(newsItem.date)}</p>
<p>${newsItem.body}</p>
<% }%>
```

# RESULT

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## News

### ↳ News Item 1

27 May 2019

Demo for GR8Conf! Here it is

## Blog

### Fourth Post

17 October 2013

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque vel diam purus. Curabitur ut nisi lacus.

- <http://example.org>
- [Example.org](#)

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# **ASSETS**

# SASS SUPPORT

## build.gradle

```
plugins {
    id 'org.jbake.site' version '5.0.0'
    id "com.bertramlabs.asset-pipeline" version "3.0.10"
}
dependencies {
    assets 'com.bertramlabs.plugins:sass-asset-pipeline:3.0.10'
}
assets {
    minifyCss = true
}
```

- **assetCompile** - Compiles and packages assets from *src/assets* into *build/assets*

# SASS FILE

src/assets/stylesheets/demo.scss

```
$body-bg: #edeff0;

body {
  background: $body-bg;
}

h1 {
  color: #ffa600;
}
```

# TOTAL CSS FILE

src/assets/stylesheets/application.css

```
/*
 * This is a manifest file that will be compiled into application.css,
 * which will include all the files
 * listed below.
 *
 * Any CSS file in this directory can be referenced using a relative path.
 *
 * You are free to add application-wide styles to this file and it will
 * appear at the top of the compiled file, but it is generally better
 * to create a new file per style scope.
 *
 *= require demo.css
 *= require_self
 */
```

# COMPILING SASS FILES

```
./gradlew assetCompile
```

Places compiled files in build/assets

# IN BUILD.GRADLE

```
task buildWebsite(type: Copy, dependsOn: assetCompile) {  
    from('build/assets/') {  
        include 'application.css'  
    }  
    into 'build/jbake/css/'  
}  
  
buildWebsite.dependsOn bake
```



*./gradlew buildWebsite*

# INCLUDE

src/jbake/templates/header.gsp

```
<link href="<%if (content.rootpath) { %>${content.rootpath}<% }  
else { %><% }%>css/application.css" rel="stylesheet">
```

# BUILDING AND RUNNING

```
./gradlew buildWebsite bakePreview
```

# RESULT

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## News

### ↳ News Item 1

27 May 2019

Demo for GR8Conf! Here it is

## Blog

### Fourth Post

17 October 2013

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- <http://example.org>
- Example.org

# **GROOCSS AND ASSET PIPELINE**

# IN BUILD.GRADLE

```
dependencies {
    assets 'com.bertramlabs.plugins:sass-asset-pipeline:3.0.10'
    assets 'com.bertramlabs.plugins:groocss-asset-pipeline:3.0.10'
}

assets {
    minifyCss = true
    configOptions = [
        groocss: [
            compress: true, noExts: true, convertUnderline: true
        ]
    ]
}
```

# GROOCSS FILE

src/assets/stylesheets/groovy.groocss

```
def myColor = c('#fe33ac')

_.box {      // _.box becomes .box
    color myColor
    borderColor myColor
    borderWidth '3px'
    borderStyle 'solid'
}

table thead tr th {
    color myColor
}
```

# INCLUDE IN APPLICATION.CSS

src/assets/stylesheets/application.css

```
/*
* ...
*= require demo.css
*= require groovy.css
*= require_self
*/
```

# RESULT

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## Fourth Post

17 October 2013

- <http://example.org>
- Example.org

Table 1. Demo Table

Header 1	Header 2	Header 3
Column 1, row 1	Column 2, row 1	Column 3, row 1
Column 1, row 2	Column 2, row 2	Column 3, row 2
Column 1, row 3	Column 2, row 3	Column 3, row 3

```
def concat1 = { String... args -> args.join('') } // (1)
assert concat1('abc','def') == 'abcdef'           // (2)
def concat2 = { String[] args -> args.join('') } // (3)
```

# SUMMARY

- JBake works well with Groovy
- Different item types is supported with different templates
- Css and javascript was not a focus in this presentation

# REFERENCES

- <https://github.com/jbake-org/jbake-gradle-plugin>
- <https://jbake.org/>
- <https://imada.sdu.dk/~jamik/dm510-19/>
- <https://imada.sdu.dk/~jamik/dm557-18/>