


# Folder Structure & Content of GPar Documentation Website

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## Goals

- To convert original **GPars** documentation from **mark-down** syntax to **Asciidoctor**
- To create a new look
- To combine a variety of **GPars** information into a single place (guides, references, tutorials.etc.)
- To re-arrange file structures as found in [gpars.github.io](https://gpars.github.io) and dis-continue **Jekyll**
- To maintain the static nature of the website; only a few dynamic parts were needed, but more later as features grow



For our documents, we use the **Asciidoctor** tool and **Gradle** plugin for **Asciidoctor**

For hosting, this implementation uses a **CloudFoundry PaaS** provider like **IBM BlueMix**, **Pivotal**, **CloudBees**, **Anynines.com**

## Introduction

A knowledge of **Gradle**, **GitHub**, and both static and dynamic **web servlets** is assumed as are a familiarity with website folder structure, html, etc.

The groovy-based build tool called **Gradle** is used to construct this website. Several different build scripts are used to implement this website. Each script is plain text UTF-8 encoded. Each script serves a different purpose.

Original **GPars** documents were stored as text files using the **mark-down** syntax. These files have been translated into a more robust **Asciidoctor** syntax. Each text file is plain text UTF-8 encoded and resides in the **./Website/src/docs/asciidoc** folder plus sub-folders for each topic.

All translated files retain the original mark-down filename but now sport an **.adoc** suffix.



## Gradle Build Tool Overview

### Gradle Components

Name	Date Modified
Website	Yesterday 11:28 PM
build.gradle	Dec 17, 2015 11:57 PM
deploy.gradle	Dec 17, 2015 11:57 PM
gradlew	Dec 17, 2015 11:57 PM
gradlew.bat	Dec 17, 2015 11:57 PM
gretty.gradle	Dec 17, 2015 11:57 PM
pdf.gradle	Dec 17, 2015 11:57 PM
pdfcore.gradle	Dec 17, 2015 11:57 PM
pdfreference.gradle	Dec 17, 2015 11:57 PM
gradle	Dec 17, 2015 10:36 AM
gradle.properties	Dec 17, 2015 7:49 AM
src	Nov 13, 2015 2:18 PM
main	Yesterday 9:47 PM
webapp	Yesterday 11:12 PM
docs	Dec 2, 2015 6:53 PM
asciidoc	Yesterday 11:04 PM
images	Dec 19, 2015 9:04 AM
archive	Dec 19, 2015 9:04 AM
css	Dec 2, 2015 6:54 PM
markdown	Nov 5, 2015 12:20 PM
resources	Nov 5, 2015 12:20 PM
txt	Nov 5, 2015 12:19 PM

This build tool allows us to include a *wrapper* holding components used by **Gradle**.

After cloning this repository, these components are all you need to build and manage this app, even if **Gradle** is not installed on your system. This avoids installing **Gradle** on your system.

#### Gradle Tools in the Downloaded Wrapper -

1. **gradlew** - a Linux/Apple bash *wrapper* script to execute the build tool
2. **gradlew.bat** - the windows equivalent of the prior script
3. **gradle/** - a folder of build tool components
4. **gradle.properties** - settings to influence the execution of this build tool

#### Gradle Build Scripts

1. **build.gradle** - executes `defaultTasks` to setup the job, run the **Asciidoctor** task, then builds a servlet war file.
2. **gretty.gradle** - used for internal purposes to run this site as a local webservice; useful to review changes prior to server upload; from a command line, do this :  

```
cd ./Website
./gradlew -b gretty.gradle appRun
```

then from a browser address line, use: <http://localhost:8080> - *NOTE: may not work on Java JVM9*
3. **deploy.gradle** - uploads our servlet war file to target CloudFoundry (or jetty or tomcat ) service; see notes within this script for more details; *NOTE: enter credentials prior to first use*; to run this script, try :  

```
cd ./Website
```

```
./gradlew -b deploy.gradle
```

Default tasks in this script run several steps to login to the remote CloudFoundry API, and push an existing **.war** file to it. This script posts the **.war** file that was built in the **build.gradle** script from **./build/libs** folder to the target.



## Root Folder Layout

*Input / Output Folder Designations of Website Root and Sub-Folders - see **build.gradle***

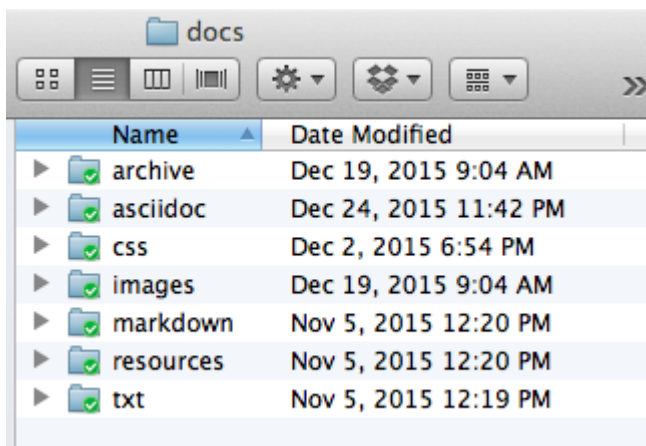
```
asciidoctor {  
    sourceDir = file('src/docs/asciidoc') ①  
    outputDir = file('src/main/webapp') ②  
}
```

① declares the root input folder of all \*.adoc files

② declares the output folder for generated HTML documents

## Input Source

For input, **Asciidoctor** reads each \*.adoc file in the **./Website/src/docs/asciidoc** folder and any sub-folders.



## Input Sub-Folder Layout

Topical areas of discussion are often broken into pieces, typically segregated physically as folders-within-folders (i.e. sub-folders).

Our website follows this pattern. Here's a list of our current input sub-folders and their purpose as of Dec.2015. Note others maybe added later.

1. **archive** - original stuff no longer needed but saved 'just-in-case'
2. **asciidoc** - contains the converted markdown documents as **.adoc** files plus sub-folders by topic

3. **css** - styling components;
4. **images** - variety of stuff, some current, some obsolete and due for a tidy-up
5. **markdown** - original markdown files saved here from the github repo - keep or delete ? No harm for the moment
6. **resources** - to be used for zips of older releases
7. **txt** - by-products of search for stale/obsolete URLs



## HTML Generation Process

HTML generation is provided by a single task within the **build.gradle** script. The **Asciidoctor** task has this privilege.

All document files have their original *mark-down* filename plus an **.adoc** suffix.

The **Asciidoctor** plugin in **build.gradle** reads each **.adoc** file from the `./Website/src/docs/asciidoc` folder. It renders an **.html** equivalent and writes this to the `./Website/src/main/webapp` folder, or sub-folder.

Folder structure is preserved from the source folder.

## Root HTML Generation Commands

- Manual - when used manually from a command line to run a single task in **build.gradle**, do this :

```
cd ./Website  
./gradlew asciidoctor
```

- Automatic - runs tasks in this script declared as default tasks. These are '**clean**', '**asciidoctor**', '**build**', '**war**'.

Do this without any task names after gradlew:

```
cd ./Website  
./gradlew
```



## PDF Generation Scripts

PDF generation is provided by identical gradle scripts. The only difference between them is the declarations for input and output folders. These appear around lines 50-55 in each script. They look like the following logic that produces a PDF document in our **core** folder for each **\*.adoc** file :

### Sample Input / Output Folder Designations for **Core** PDFs

```
sourceDir = file('src/docs/asciidoc/core') ①  
outputDir = file('src/main/webapp/core') ②
```
















































① declares the input folder of \*.adoc files

② declares the output folder for the generated PDF

#### List of PDF Scripts

1. **pdf.gradle** - generates a single page PDF for the full user guide as defined in **index.adoc**; this index uses the **include** syntax to insert pieces of text from the \*.txt files.
2. **pdfcore.gradle** - generates a single page PDF for each ./core topic file ending with **.adoc**
3. **pdfreference.gradle** - generates a single page PDF for the reference manual defined in **index.adoc**; this index uses the **include** syntax to insert pieces of text from the \*.txt files.
4. **pdfstructure.gradle** - generates a single page PDF describing the workings of this website, it's folders, scripts, etc.



webapp	
Name	Date Modified
 Actor.html	Dec 22, 2015 9:51 PM
 Agent.html	Dec 22, 2015 9:51 PM
▶  api	Dec 22, 2015 9:47 PM
 API_Doc.html	Dec 22, 2015 9:51 PM
 Articles.html	Dec 22, 2015 9:51 PM
 asciidoctor.css	Dec 22, 2015 9:51 PM
 Asynchronous_Functions.html	Dec 22, 2015 9:51 PM
 Breaking_Changes.html	Dec 22, 2015 9:51 PM
 Code_Style.html	Dec 22, 2015 9:51 PM
 coderay-asciidoctor.css	Dec 22, 2015 9:51 PM
 Community.html	Dec 22, 2015 9:51 PM
 Concepts_Compared.html	Dec 22, 2015 9:51 PM
 Concurrency_Topics.html	Dec 22, 2015 9:51 PM
▶  core	Dec 22, 2015 11:26 PM
 CSP.html	Dec 22, 2015 9:51 PM
▶  css	Dec 22, 2015 10:18 PM
 Dataflow.html	Dec 22, 2015 9:51 PM
 Demos.html	Dec 22, 2015 9:51 PM
 Developer_Zone.html	Dec 22, 2015 9:51 PM
 Download.html	Dec 22, 2015 9:51 PM
 Events.html	Dec 22, 2015 9:51 PM
 favicon.ico	Oct 5, 2015 3:06 PM
▶  font-awesome	Dec 22, 2015 9:54 PM
▶  fonts	Dec 2, 2015 6:54 PM
 ForkJoin.html	Dec 22, 2015 9:51 PM
 GPars_History.html	Dec 22, 2015 9:51 PM
 GPars_Logo.html	Dec 22, 2015 9:51 PM
 GParsPool.html	Dec 22, 2015 9:51 PM
 Grails_and_Griffon_Fast_Track.html	Dec 22, 2015 9:51 PM
 Groovy_Fast_Track.html	Dec 22, 2015 9:51 PM
▶  guide	Dec 22, 2015 10:21 PM
 Hackergarten.html	Dec 22, 2015 9:51 PM
 home.html	Dec 22, 2015 9:51 PM
▶  images	Dec 22, 2015 10:34 PM
▶  img	Dec 2, 2015 6:53 PM
 index.html	Dec 8, 2015 5:17 PM
 Integration.html	Dec 22, 2015 9:51 PM
 Java_Fast_Track.html	Dec 22, 2015 9:51 PM
▶  JonKerridgeBook	Dec 2, 2015 6:54 PM
▶  js	Dec 2, 2015 6:54 PM
 License.html	Dec 22, 2015 9:51 PM
 Logo_Usage_Policy.html	Dec 22, 2015 9:51 PM
 News.html	Dec 22, 2015 9:51 PM
 Presentations.html	Dec 22, 2015 9:51 PM
 Privacy.html	Dec 22, 2015 9:51 PM
▶  quickstart	Dec 22, 2015 10:22 PM
 Readme.html	Dec 22, 2015 9:51 PM



# Output Generation

The `./Website/src/main/webapp` folder is used as the output capture folder for our website. **Asciidoctor** writes `.html` (or `.PDF`) output here. Sub-folders are duplicated, if necessary, to preserve the integrity of the source.

## Output Sub-Folder Layout

Topical areas of discussion are often broken into pieces, typically segregated physically as folders-within-folders (i.e. sub-folders).

Our website follows this pattern. Here's a list of our current output sub-folders and their purpose as of Dec.2015. Note others maybe added later.

1. **api** - groovydoc and javadoc compiler output copied over from latest release; **groovy-overview-summary.html** and **java-overview-summary.html** are re-built by build.gradle logic
2. **core** - describes the primary mechanisms of **GPars**
3. **css** - styling components; `css3menu1` sub-dir is for the site navigation bar
4. **font-awesome** - used by asciidoctor to generate admonition icons
5. **fonts** - **Asciidoctor** usage
6. **guide** - everything to construct our `.html` user guide and companion `.pdf`
7. **images** - variety of stuff, some current, some obsolete and due for a tidy-up
8. **img** - used in landing page ( `index.html` )
9. **JonKerridgeBook** - chapters from his material and his PDF series
10. **js** - for landing page and JQuery support
11. **quickstart** - the short reference manual for both `.html` and it's one-page PDF version



Our landing page `index.html` is not an **Asciidoctor** artifact, and must **NOT** be lost or deleted

webapp	
Name	Date Modified
Roadmap.html	Dec 22, 2015 9:51 PM
Sponsors.html	Dec 22, 2015 9:51 PM
StaleURLs.html	Dec 22, 2015 9:51 PM
Support.html	Dec 22, 2015 9:51 PM
test.adoc	Dec 5, 2015 1:47 AM
test2.html	Dec 7, 2015 5:04 PM
TheGParsTeam.html	Dec 22, 2015 9:51 PM
Todo.html	Dec 22, 2015 9:51 PM
User_Guide.html	Dec 22, 2015 9:51 PM
User_Voices.html	Dec 22, 2015 9:51 PM
WEB-INF	Dec 22, 2015 10:23 PM
groovy	Dec 22, 2015 10:29 PM
blog.groovy	Nov 13, 2015 10:36 PM
com	Dec 22, 2015 10:26 PM
jim	Dec 22, 2015 10:28 PM
GParsDownloader.groovy	Dec 22, 2015 10:28 PM
ConvertMD.groovy	Oct 17, 2015 9:46 PM
ConvertMD.groovy.bak	Nov 27, 2015 11:48 AM
datetime.groovy	Jul 11, 2015 4:59 PM
decoder.groovy	Sep 14, 2015 12:07 AM
FindGParsInMaven2.groovy	Nov 23, 2015 6:12 PM
FindGParsMaven.groovy	Nov 27, 2015 11:43 AM
FindGParsMaven2.groovy	Nov 27, 2015 5:19 PM
FindGroovySource.groovy	Oct 17, 2015 9:55 PM
FindHTML.groovy	Oct 17, 2015 10:19 PM
FindHTML.groovy.bak	Oct 17, 2015 9:44 PM
FindMD.groovy	Oct 17, 2015 9:37 PM
getURL.groovy	Dec 17, 2015 10:01 PM
gpars.groovy	Dec 10, 2015 2:46 PM
GParsTest1.groovy	Dec 17, 2015 10:15 PM
GParsTest2.groovy	Dec 17, 2015 10:15 PM
history.groovy	Sep 15, 2015 9:02 PM
MakeGroovySource.groovy	Oct 17, 2015 9:53 PM
RebuildIndex.groovy	Nov 1, 2015 11:59 AM
includes	Dec 2, 2015 6:54 PM
footer.gtpl	Nov 13, 2015 3:33 PM
header.gtpl	Nov 14, 2015 11:42 AM
lib	Dec 22, 2015 10:23 PM
caelyf-1.3.3.jar	Dec 15, 2015 10:35 PM
Doctor-all-1.0.jar	Dec 1, 2015 12:06 AM
logging.properties	Dec 15, 2015 8:41 AM
pages	Dec 22, 2015 10:24 PM
blog.gtpl	Nov 13, 2015 10:37 PM
datetime.gtpl	Jul 11, 2015 4:59 PM
download.gtpl	Nov 25, 2015 1:28 PM
gpars.gtpl	Dec 10, 2015 1:28 PM
routes.groovy	Dec 22, 2015 11:14 PM
web.xml	Yesterday 10:53 AM
WebsiteStructure	Yesterday 11:45 PM

# WEB-INF Review

**WEB-INF** is our deployment folder for java servlets. It holds traditional support and configuration files.

Here's a list of components, sub-folders and their purpose as of Dec.2015.

1. **groovy** - dynamic components written as groovy scripts (plus a lot of obsolete stuff)
2. **includes** - fragments of html stored as groovy templates for **include** targets
3. **lib** - jars of runtime logic to support
  - 1) additional servlet processing in **caelyf-1.3.3.jar** and
  - 2) live **Asciidoctor** translation from any \*.adoc file directly to servlet response stream in **Doctor-all-1.0.jar**
4. **pages** - groovy templates (**.gtpl**) add further text to a servlet response
5. **logging.properties** - adjust log level as needed
6. **routes.groovy** - adds additional mappings to our own code for browser addresses. For example:  
:  
`get "/datetime",forward:"/datetime.groovy", cache:2.minutes`  
where **get**, **post**, etc HTTP requests go to a specific groovy script; if **Redis** service is running, response is copied to cache for 2 min.s before reconstructing it

In this example, a request from browser address: <http://localhost:8080/datetime> forwards to **datetime.groovy** script in `/Website/src/main/webapp/WEB-INF/groovy` folder. It gets system date then forwards request to a template at `/Website/src/main/webapp/WEB-INF/pages` for final response resolution.

7. **web.xml** - configures servlet container (jetty,tomcat,etc.) by mapping file suffixes to servlets; rarely changes.



## Sample Workflow



To be added soon

