


# 2015-09-02 light development webinar handout

 Supporting materials and information for the 2015-09-02 light development webinar.

- [Webinar recording](#)
- [Download the 5.4.2 Snapshot](#)
- [Key documentation](#)
  - [Installing Magnolia](#)
  - [Template definition](#)
  - [Template scripts](#)
  - [Magnolia's templating functions](#)
  - [Dialog definition](#)
  - [YAML](#)
- [Important commands, files & paths](#)
  - [magnolia.properties configuration file](#)
  - [Starting/stopping Magnolia](#)
  - [Tailing the logs](#)
  - [Filtering the stack trace from your log tail](#)
  - [Light development module structure](#)
- [Code snippets](#)
- [Useful tools](#)
  - [Fish Shell](#)
  - [Silver Searcher](#)

## Webinar recording

## Download the 5.4.2 Snapshot

You can get the Magnolia 5.4.2 SNAPSHOT Tomcat bundle used in webinar here: <https://www.dropbox.com/s/5pk0p9rf0f5axce/mgnl-5.4.2-SNAPSHOT.zip>

## Key documentation

### Installing Magnolia

<https://documentation.magnolia-cms.com/display/DOCS/Installing+Magnolia>

### Template definition

<https://documentation.magnolia-cms.com/display/DOCS/Template+definition>

### Template scripts

<https://documentation.magnolia-cms.com/display/DOCS/Template+scripts>

### Magnolia's templating functions

<https://documentation.magnolia-cms.com/display/DOCS/Templating+functions>

### Dialog definition

<https://documentation.magnolia-cms.com/display/DOCS/Dialog+definition>

### YAML

<https://documentation.magnolia-cms.com/display/DOCS/YAML>

## Important commands, files & paths

### magnolia.properties configuration file

Find the magnolia.properties file at

```
magnolia-5.4.2-SNAPSHOT/apache-tomcat-7.0.47/webapps/magnoliaAuthor/WEB-INF/config/default/magnolia.properties
```

Alternately, use `ag`, `find` or `grep` on the command line to find the file

#### Finding magnolia.properties on the command line

```
pwd # magnolia-5.4.2-SNAPSHOT
ag -l magnolia.develop .
find . magnolia.properties
grep -rI magnolia.develop *
```

## Starting/stopping Magnolia

#### Directory tree for a light module

```
cd mag*5.4.2/apache*
bin/magnolia_control.sh start
bin/magnolia_control.sh stop
```

## Tailing the logs

#### Directory tree for a light module

```
cd mag*5.4.2/apache*
tail -f logs/catalina.out
```

## Filtering the stack trace from your log tail

If you want to remove the stack trace data from your running log tail, use this command

#### Directory tree for a light module

```
cd mag*5.4.2/apache*
tail -f logs/catalina.out | \
grep -v --line-buffered --invert-match "^\t(at|\\.\\.\\.)" "
```

## Light development module structure

## Directory tree for a light module

```

${magnolia.resources.dir} # Whatever path you set in the magnolia.properties file
${module.name}
  dialogs                # Dialog definitions in YAML format
  components
  pages
  templates              # Component & page definitions (YAML) & templates (FTL)
  components
  pages                 # Page defs & templates also contain area defs & templates
  webresources
    css
    img
    js
```

## Code snippets

### HTML 5 template

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title></title>
</head>
<body>
  <h1></h1>
  <p></p>
</body>
</html>
```

### "Basic" page definition

```

title: Basic    # The name shown in the Pages App
templateScript: /webinar/templates/pages/basic.ftl
renderType: freemarker
visible: true

dialog: webinar:pages/basic

areas:
  main:
    renderType: freemarker
    availableComponents:
      image:
        id: webinar:components/image
```

### "Basic" freemarker template

```
[#assign title = content.title!"Title not found"]
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>${title}</title>
  [ @cms.page / ]
</head>
<body>
  <h1>${title}</h1>
  ${cmsfn.decode(content).description}
  [ @cms.area name="main"/ ]
</body>
</html>
```

### "Basic" dialog definition

```
form:
  tabs:
    - name: tabText
      label: Texts
      fields:
        - name: title
          class: info.magnolia.ui.form.field.definition.TextFieldDefinition
          label: Title
        - name: description
          class: info.magnolia.ui.form.field.definition.RichTextFieldDefinition
          label: Description
  actions:
    commit:
      class: info.magnolia.ui.admincentral.dialog.action.SaveDialogActionDefinition
    cancel:
      class: info.magnolia.ui.admincentral.dialog.action.CancelDialogActionDefinition
```

### "Image" component definition

```
title: Image
templateScript: /webinar/templates/components/image.ftl # Path to template
renderType: freemarker
visible: true

dialog: webinar:components/image
```

## "Image" dialog definition

```
form:
  tabs:
    - name: tabText
      label: Select image from DAM
      fields:
        - name: image
          class: info.magnolia.ui.form.field.definition.LinkFieldDefinition
          targetWorkspace: dam
          appName: assets
          label: Select image
          identifierToPathConverter:
            class: info.magnolia.dam.app.assets.field.translator.AssetCompositeIdKeyTranslator
          contentPreviewDefinition:
            contentPreviewClass: info.magnolia.dam.app.ui.field.DamFilePreviewComponent

actions:
  commit:
    class: info.magnolia.ui.admincentral.dialog.action.SaveDialogActionDefinition
  cancel:
    class: info.magnolia.ui.admincentral.dialog.action.CancelDialogActionDefinition
```

## Image component freemarker template

```
[#if content.image?has_content]
  [#assign link = damfn.getAssetLink(content.image)]
  
[/#if]
```

## Useful tools

### Fish Shell

Humorously described as, "A command line shell for the 90's", fish is a user-friendly command line shell that features nice command auto-completions, easier scripting and good usability (well, for a command line shell.)

Homepage at <http://fishshell.com/>

### Silver Searcher

A command-line tool for quickly searching files (and optimized for searching in code files)

Homepage at <http://geoff.greer.fm/ag/>

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