

Jeeva S. Chelladhurai CEO, Comorin Consulting Services +91 97319 77222 jeeva@comorin.co



13. Customizing UI

- Introduction
- Steps in Modifying Jenkins Code
- Manual Modification
- Simple Theme Plugin
- Custom Job Icon plugin





Introduction



- The open source feature of Jenkins allows it to be extensively modified and used according to our needs
- Can modify things from wordings, color schemes & even the overall view of the different elements
- The UI in Jenkins build on jelly files similar coding as an html page & uses java to convert them to html
- Jelly files has a large amount of tags for particular UI features
- Can modify the overall theme of the Jenkins using Simple Theme Plugin



Steps in Modifying Jenkins Code



- 1. Fork the GitHub repo for Jenkins & clone it https://github.com/jenkinsci/jenkins
- 2. Make the necessary changes in code
- 3. Build the source code using this command mvn clean package -pl war -am -DskipTests -Dfindbugs.skip
- 4. Go to war/target in the source code and run java -jar jenkins.war
- 5. Go to localhost:8080 to access the modified UI



Manual Modification from the Source Code



Steps in Manual modification of UI

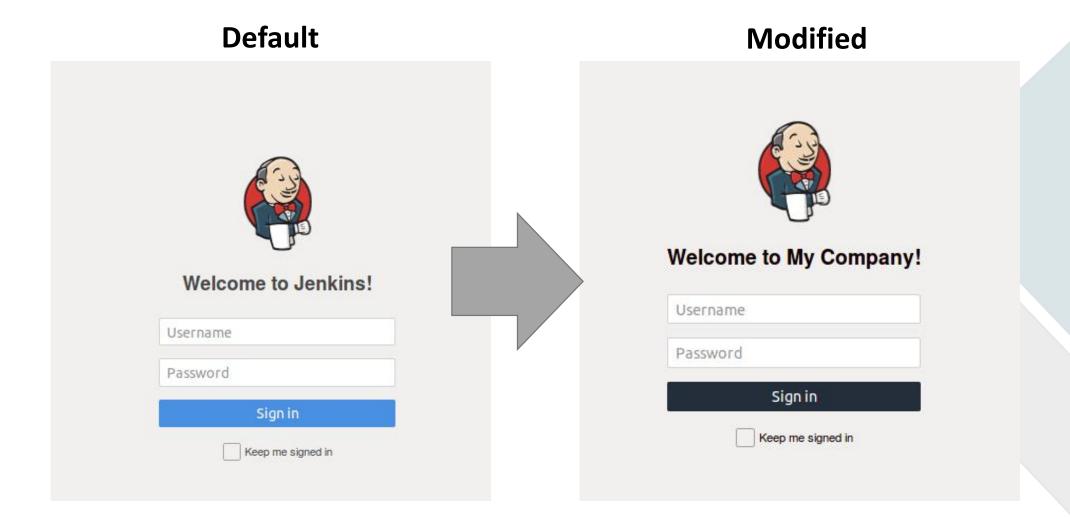
- Select the UI component you want to modify
- Modify the corresponding jelly file & properties file
- Modify the styles based on requirement in the css files in

war/src/main/webapp/css folder



Example: Customizing the Login Page









Step 1.1: Modify the words "My Company"

- Go to login.jelly file in core/src/main/resources/Jenkins/model/Jenkins
- Here you can see the part of the login screen between logo and input boxes
- The "simple-header.jelly" file is included

```
<p
```

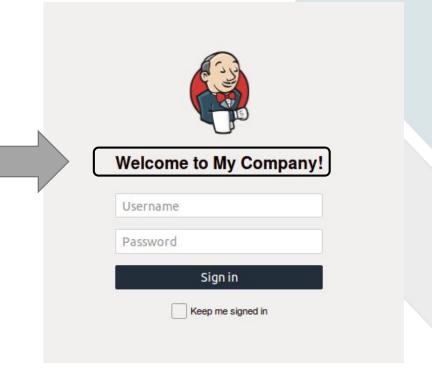




Step 1.2: Find the file & modify it to "Welcome to My Company!"

• Go to

jenkins/core/src/main/resources/jenkins/model/DefaultSimplePageDecorator/simple-header.jelly







Step 2: Change the colors of the sign in button

Modify the css file in war/src/main/webapp/css/simple-page.theme.css

```
nain-bg-color-focus: #2171ce;
nain-bg-color: #232E3A;
danger-color: #C4000A;
or: #100000;
le-page .logo {
ckground-image: url('../images/jenkins.svg');
ckground-repeat: no-repeat;
ckground-position: 50% 0;
ight: 130px;
le-page form .submit input:focus {
rder: solid lpx #2171ce; /*var(--main-bg-color-focus)
le-page form .submit input {
kground-color: #232E3A; /*var(--main-bg-color);*/
der: solid lpx #232E3A; /*var(--main-bg-color-focus)
le-page input.normal:focus {
rder: solid lpx #2171ce; /*var(--main-bg-color-focus)
nple-page .danger {
rder: lpx solid #C4000A; /*var(--danger-color);*/
<-shadow: 0 0 1px #C4000A; /*var(--danger-color);*/</pre>
```

Welcome to My Company!
Username
Password
Sign in
Keep me signed in

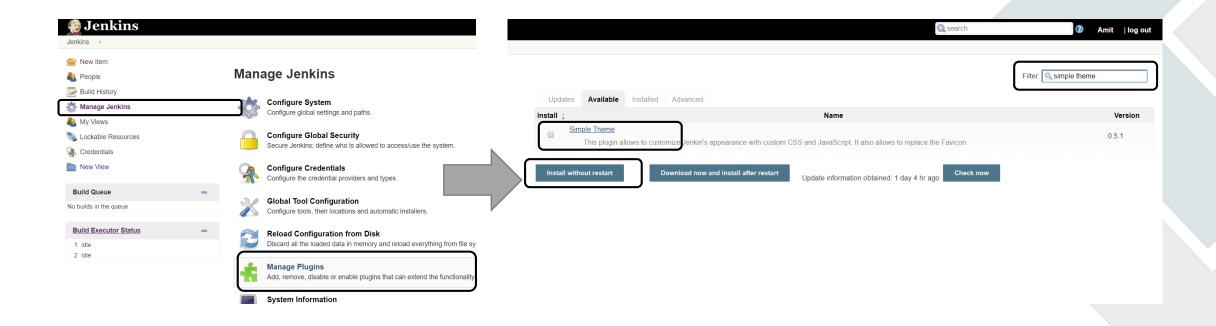


Simple Theme Plugin



Step 1: Install the Simple theme plugin

Manage Jenkins -> Manage Plugins -> Search Simple Theme -> Select Available Install without Restart







- To give colors & generate a css file follow the given link:
- http://afonsof.co m/jenkinsmaterial-theme/

Build your own theme with a company logo!

1. Select your color

red	pink	purple	deep-purple	indigo	blue	light-blue
cyan	teal	green	light-green	lime	yellow	amber
orange	deep-orange	brown	grey	blue-grey		

2. Choose your company logo

Minimum height: 40px

• Preferred type: Transparent PNG

• Preferred size: up to 10KB

DOWNLOAD YOUR THEME!

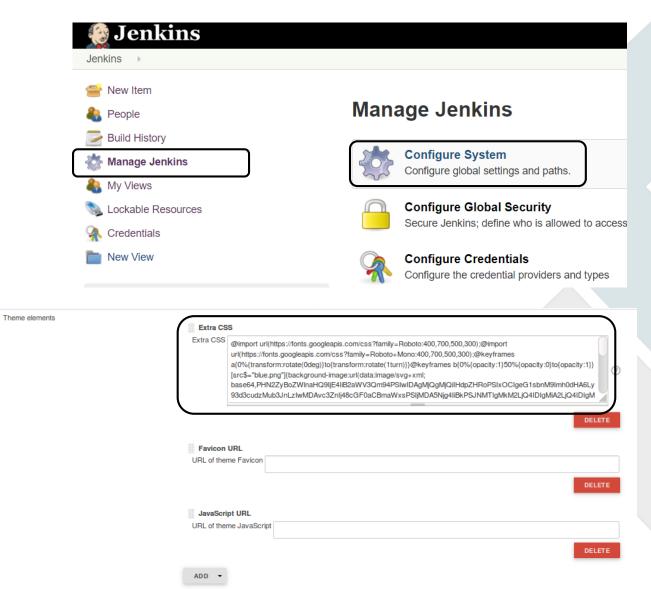
So you love **Jenkins** but hate its ugly user interface and icons... Me too! Introducing **Jenkins Material Theme**. You can turn your favorite frog CI tool into a handsome prince in few steps! Install this Jenkins Theme!





Step 2: Applying the theme

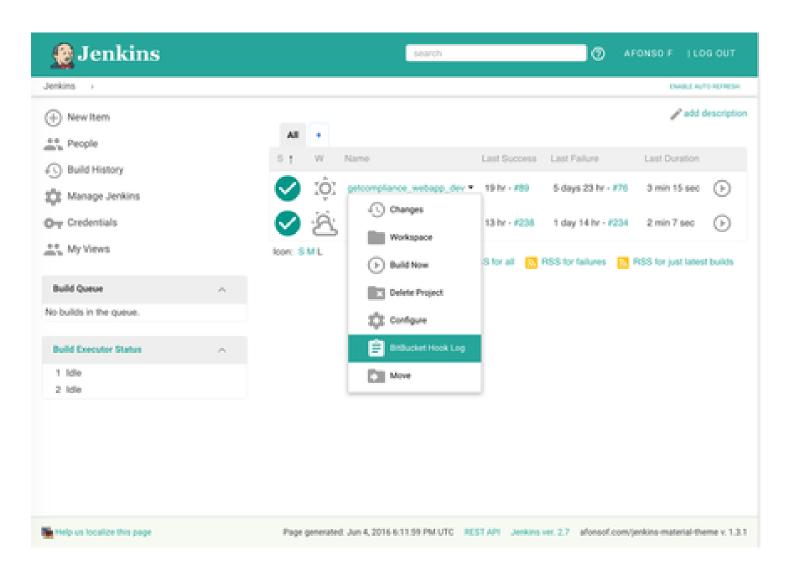
- Manage Jenkins →
 Configure system → Theme
 → Paste the CSS file generated
- Apply → Save





UI Output





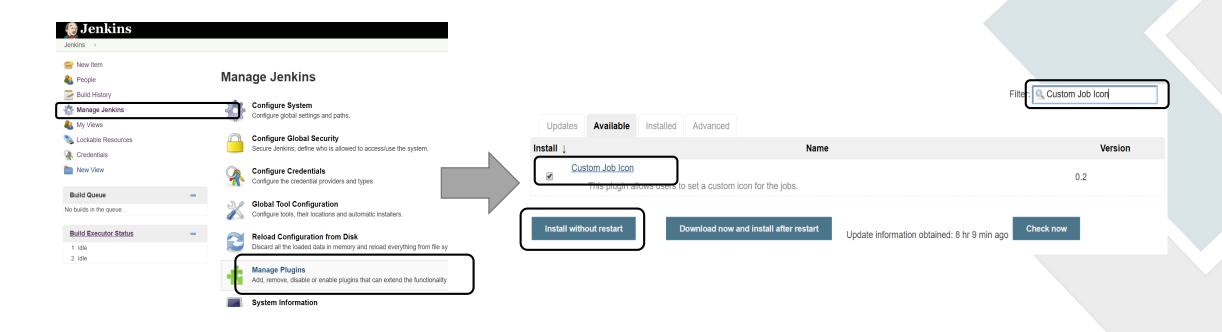


Custom Job Icon



Step 1: Install the Simple theme plugin

 Manage Jenkins -> Manage Plugins -> Search Custom Job Icon -> Select Available -> Install without Restart







Step 2: Add icons to Jenkins

- Manage Jenkins -> Configure System -> Custom icons -> Choose File
- -> Add -> Refresh icon list

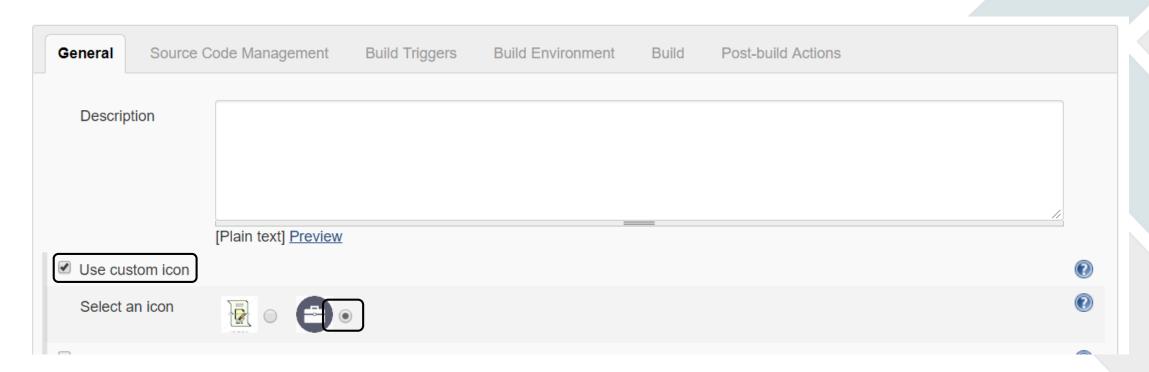






Step 3: Add icons to Job

Configure job -> Use custom icon -> Select an icon -> Apply -> Save







- Go back to the Jenkins dashboard
- You can see the icon at the right end of the job view

