

Build a themed, secure website in 10 minutes

St. Louis Unix Users Group

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Why a theme?

- Look & feel
 - Well beyond normal builders capabilities
 - Look & feel much more *sophisticated*
- Separates content and presentation
- No need to write HTML, JS, or other code
- Options for changing to a different theme
- Great way to build a site with minimal effort!!

Issues with Themes

- Complexity

- Complicated UIs
- Steep learning curve
- Admin UI always be available

- Security

- Themes require an admin GUI
 - A GUI requires executable code ON the server
 - Persistent hacking target (e.g. /wp-admin)
- Requires specialized knowledge and *plugins* for any semblance of security

Better way to build a themed site

- USE a theme
- NO code (e.g. PHP) on the server
- SERVE with STATIC html/js
- SITE files are READ ONLY!!
- Simple to BUILD with a container
- CAN add executable code, if required

Tonight's solution

- *Static site generator*
- Hundreds of themes available
- Never touch HTML/JS (unless desired)
- Content build with yaml (no coding)
- Build/test on local machine

Hugo

- Main site
<https://gohugo.io/>
- Themes – hundreds
<https://themes.gohugo.io/>
- Commercial themes
<https://github.com/themefisher/>

Installing

- <https://gohugo.io/getting-started/installing/>
 - Snap package
 - System package
 - Current version
- <https://github.com/gohugoio/hugo/releases>
 - Current 0.92.0
 - Linux binary 64-bit
https://github.com/gohugoio/hugo/releases/download/v0.92.0/hugo_0.92.0_Linux-64bit.tar.gz

Download

- hugo_0.92.0_Linux-64bit.tar.gz
- Install
 - Copy to ~/bin/hugo.0.92.0
 - Unzip

```
lvl users 48640000 Jan 12 02:31 hugo*  
lvl users 11357 Jan 12 02:18 LICENSE  
lvl users 10216 Jan 12 02:18 README.md
```
- Symlink ~/bin/hugo to hugo.0.92.0/hugo
ln -s hugo.0.92.0/hugo .

Create a site

```
$ hugo new site sluug
```

Congratulations! Your new Hugo site is created in `/home/lvl/ownCloud/lvl/LVL/Presentations/Hugo/sluug`.

Just a few more steps and you're ready to go:

1. Download a theme into the same-named folder.
Choose a theme from <https://themes.gohugo.io/> or create your own with the "hugo new theme <THEMENAME>" command.
2. Perhaps you want to add some content. You can add single files with "hugo new <SECTIONNAME>/<FILENAME>.<FORMAT>".
3. Start the built-in live server via "hugo server".

Visit <https://gohugo.io/> for quickstart guide and full documentation.

Installed

```
drwxrwxr-x 2 lvl users 24 Jan 12 14:09 archetypes/  
-rw-rw-r-- 1 lvl users 82 Jan 12 14:09 config.toml  
drwxrwxr-x 2 lvl users  6 Jan 12 14:09 content/  
drwxrwxr-x 2 lvl users  6 Jan 12 14:09 data/  
drwxrwxr-x 2 lvl users  6 Jan 12 14:09 layouts/  
drwxrwxr-x 2 lvl users  6 Jan 12 14:09 static/  
drwxrwxr-x 3 lvl users 48 Jan 12 14:15 themes/
```

- Site configuration:
config.toml

Add a theme

- Note: Many themes include an example site, but few actually include one *configured*.
- Theme directory: sluug.org/themes/
- Install a theme:
git clone <theme URL>
 - Dream theme
[https://github.com/g1eny0ung/hugo-theme-dream.](https://github.com/g1eny0ung/hugo-theme-dream)
 - Meghna theme
<https://themes.gohugo.io/themes/meghna-hugo/>

Dream

archetypes/
CHANGELOG.md
data/
docs/
exampleSite/
gulpfile.js
i18n/
images/
layouts/
LICENSE
netlifyCMS/
package.json
README.md
src/
static/
theme.toml
yarn.lock

Meghna

archetypes/
assets/
exampleSite/
images/
layouts/
LICENSE
netlify.toml
README.md
static/
theme.toml

Test a theme

- IF the theme provides a configured examplesite
from theme directory
hugo server -themesDir ../../themes
- Start work: copy files from example site to site dir
- Tweak and test in realtime:
in site directory
hugo server

Enjoy!

Hugo: Static Website Generator

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