

# GETTING STARTED WITH HUGO

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## My Info

- First semester CS student
- Open source developer

## Primary research and learning area

- CS theory (Data Structure and Algorithms, AI)
- Version Control and JAMStack technologies

## Blog

- <https://www.CSaju.com>



# EXPECTATIONS

You can expect

- Hugo Basic
- Build project and deploy on server
- Tech Trends
- Learning curve
- Tips

# HUGO

A Fast & Modern Static Website Engine

# HUGO

- Static site generator
- Probably fastest framework powered by Go lang
- Support Markdown
- Use Go templates
- Single binary CLI tool with no dependencies.

# ALTERNATIVES AND SIMILAR

- Jekyll
- WordPress
- Gatsby JS
- Pelican
- Many more



# WHY HUGO

- Cheap and easy for startup
- Performance
- Free Hosting on GitHub Pages with custom domain
- Awesome documentation
- Integrate with Disqus
- Active Open source community

# INSTALL HUGO

For Mac & Linux Distro

```
brew install hugo
```

For Windows

```
choco install hugo -confirm
```

# CREATE SITE

```
aju@Dataju: ~/Desktop$ hugo new site ProjectName
Congratulations! Your new Hugo site is created in /home/aju/Desktop/ProjectName.

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.
aju@Dataju:~/Desktop$
```

# HUGO SITE STRUCTURE

- > archetypes
- > content
- > data
- > layouts
- > resources
- > static
- > themes
- ⚙ config.toml**

# CONFIGURING FILE

```
⚙ config.toml ✘  
⚙ config.toml  
1 # Main config file for icon theme.  
2 theme = "hugo-icon"  
3 baseURL = "https://aju100.github.io/2k76/"  
4 languageCode = "en-AU"  
5 title = "2k76 CSIT"  
6 logo = "favicon.jpeg"  
7
```

# RUN PROJECT ON LOCAL MACHINE

```
aju@Dataju:~/Desktop/ProjectName$ hugo server -D
Building sites ... WARN 2019/11/08 09:32:17 found no layout file for "HTML" for "home": You should create a template file which matches Hugo Layouts Lookup Rules for this combination.
WARN 2019/11/08 09:32:17 found no layout file for "HTML" for "taxonomyTerm": You should create a template file which matches Hugo Layouts Lookup Rules for this combination.
WARN 2019/11/08 09:32:17 found no layout file for "HTML" for "taxonomyTerm": You should create a template file which matches Hugo Layouts Lookup Rules for this combination.

| EN
+-----+-----+
 Pages | 3
 Paginator pages | 0
 Non-page files | 0
 Static files | 0
 Processed images | 0
 Aliases | 0
 Sitemaps | 1
 Cleaned | 0

Total in 14 ms
Watching for changes in /home/aju/Desktop/ProjectName/{archetypes,content,data,layouts,static}
Watching for config changes in /home/aju/Desktop/ProjectName/config.toml
Environment: "development"
Serving pages from memory
Running in Fast Render Mode. For full rebuilds on change: hugo server --disableFastRender
Web Server is available at http://localhost:1313/ (bind address 127.0.0.1)
Press Ctrl+C to stop
```

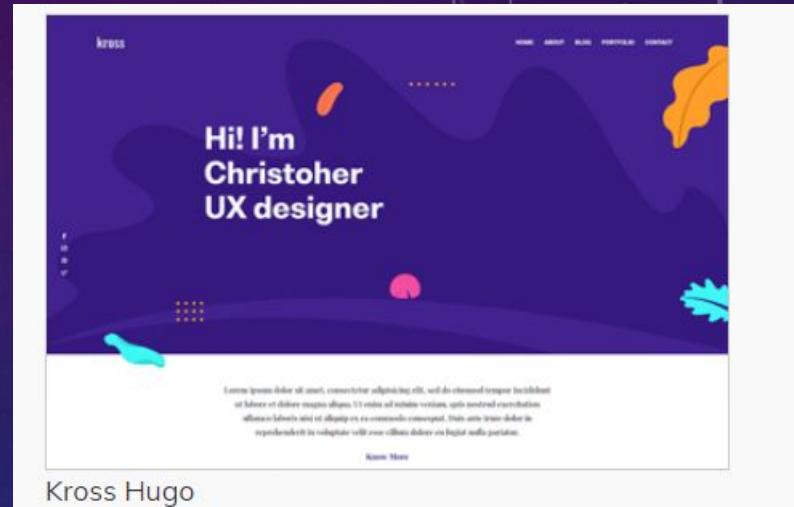
# HUGO THEMES

To install theme

git submodule <https://link> themes/nameOfTheme

Activate theme in your site

Go to theme folder, copy the config.toml of examplesite to root directory and edit it.



Kross Hugo

A screenshot of the Hugo Learn theme documentation. On the left, there is a sidebar with navigation links: "Basics", "Content", "Shortcodes", "MORE", "Github repo", "Showcases", "Hugo Documentation", and "Credits". The main content area shows a "Change default colors" section with a sub-section for "Red variant". It includes a code snippet for "params": "# Change default color scheme with a variant one" and "themeVariant = "red"" and a preview of the theme's interface with a red color scheme. A blue arrow points to the "themeVariant" code line.

Learn

# THEME STRUCTURE

```
└── themes
    └── ga-hugo-theme
        ├── archetypes
        ├── layouts
        │   └── _default
        │       ├── list.html
        │       ├── single.html
        └── partials
            ├── footer.html
            ├── header.html
            └── 404.html
        └── LICENSE.md
        └── README.md
    └── theme.toml
```

# CREATE BLOG POST

aju@Dataju: ~/Desktop/first\_site

aju@Dataju: ~/Desktop

x

aju@Dataju: ~/Desktop/first\_site

x

```
aju@Dataju:~/Desktop/first_site$ hugo new first.md
/home/aju/Desktop/first_site/content/first.md created
aju@Dataju:~/Desktop/first_site$ █
```



## EXPLORER



## OPEN EDITORS

X ↓ first.md content



## FIRST\_SITE

&gt; .vscode

&gt; archetypes

## content

&gt; first.md

&gt; data

&gt; layouts

&gt; resources

&gt; static

## themes

config.toml



## OUTLINE

↓ first.md X

content &gt; ↓ First.md

```
1  ---
2  title: "First"
3  date: 2019-11-11T15:58:13+05:45
4  draft: true
5  ---
6
7
```

# WHAT IF WE DO THIS ?

```
aju@Dataaju: ~/Desktop × aju@Dataaju: ~/Desktop/fir... × aju@Dataaju: ~/Desktop/fir...
aju@Dataaju:~/Desktop/first_site$ hugo new first.md
/home/aju/Desktop/first_site/content/first.md created
aju@Dataaju:~/Desktop/first_site$ hugo new coding/second.md
/home/aju/Desktop/first_site/content/coding/second.md created
aju@Dataaju:~/Desktop/first_site$ ls
archetypes config.toml content data layouts resources static themes
aju@Dataaju:~/Desktop/first_site$ █
```

## List Template - Home

## Codings

Monday, Nov 11, 2019

First

Monday, Nov 11, 2019

This is a first page.

# Getting bore, right?

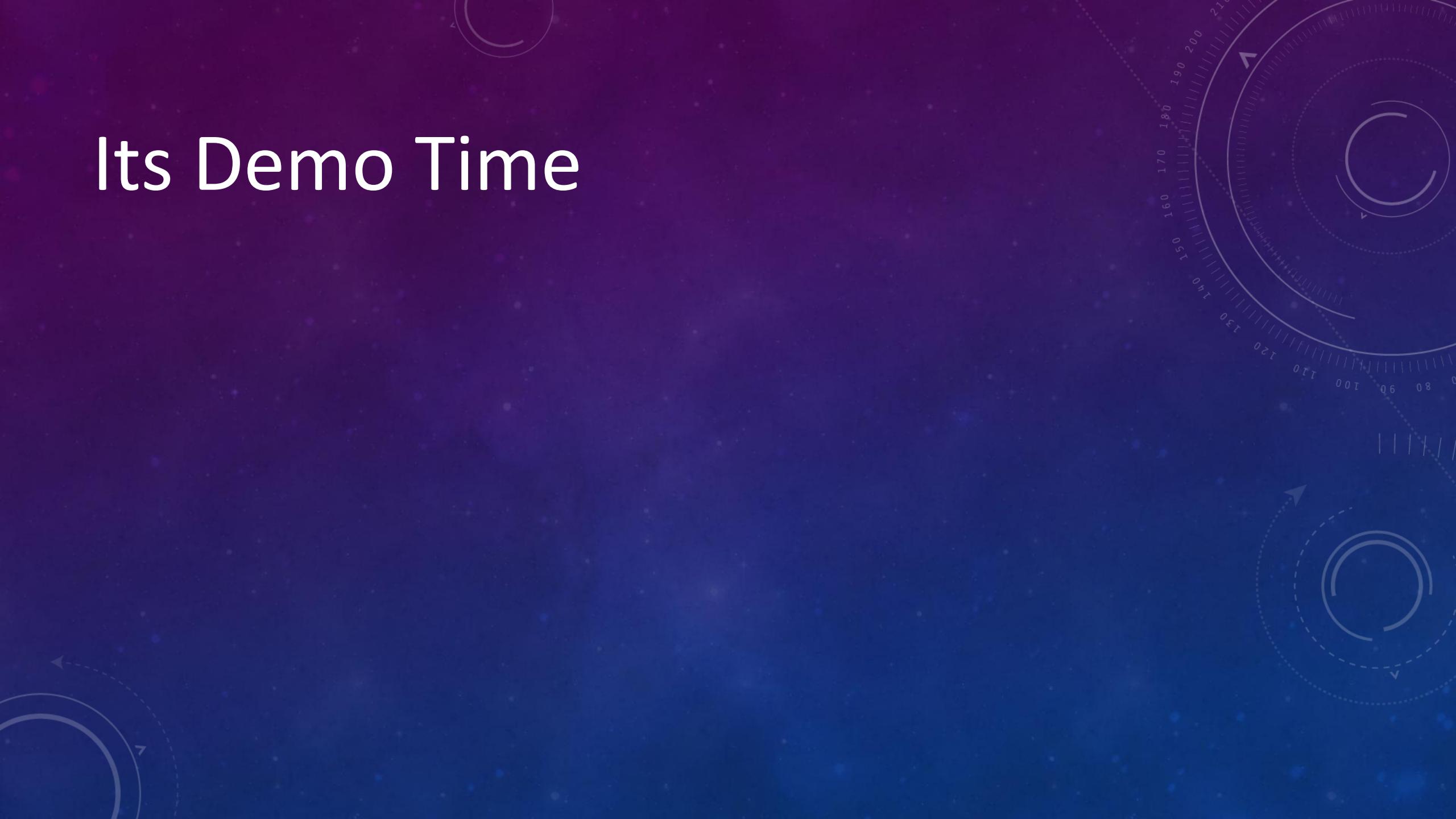


Theory



Practical

# Its Demo Time



# HOSTING & DEPLOYMENT

- AWS
- Azure
- Netlify
- GitHub
- Bitbucket
- Gitlab
- Many more

# MY RECENT PROJECTS

- Portfolio site ([www.aju.github.io](http://www.aju.github.io))
- Small local tech community ([www.csit2k76.com](http://www.csit2k76.com))

*“Building project is not big deal, making it in a large scale is a big deal.”*

# FURTHER READING !!!

## Links

<https://golang.org/>

<https://gohugo.io/>

<https://github.com/budparr/awesome-hugo>

## Books

GO: GO Programming Language, 2019 Edition

**Working with Static Sites: Bringing the Power of Simplicity to Modern Sites**

## Follow on twitter

<https://twitter.com/GoHugoIO>

<https://twitter.com/golang>

<https://twitter.com/bepsays>

<https://twitter.com/spf13>

QUESTIONS ARE WELCOME ?

THANK YOU ALL OF YOU  
AND  
SAGARMATHA COLLEGE