

Research Tools

Liangwang Ruan

2021.12.1

Documentation

Personal Website

Awesome everything



VimAwesome

AWESOME VIM PLUGINS
from
ACROSS THE UNIVERSE

- Language
- Completion
- Code display
- Integrations
- Interface
- Commands
- Other

Search

Tip: use `/` to search, `g/k` to navigate, `n/p` to flip pages

19462 PLUGINS

» fugitive.vim

by TIM POPE

47185

14774

fugitive.vim: A Git wrapper so awesome, it should be illegal

surround.vim

by TIM POPE

34226

9772

surround.vim: quoting/parenthesizing made simple

The NERD tree

by MARTY GRENFELL

27440

15847

A tree explorer plugin for vim.

Syntastic

by MARTY GRENFELL

22358

10933

Syntax checking hacks for vim

vim-gitgutter

by ANDY STEWART

21806

7219

A Vim plugin which shows git diff markers in the sign column and stages/previews/undoes hunks and pa...

Awesome Python

Life is short, you need Python.

Awesome Python

A curated list of awesome Python frameworks, libraries, software and resources.

Inspired by [awesome-php](#).

Admin Panels

Libraries for administrative interfaces.

- [ajenti](#) - The admin panel your servers deserve.
- [django-grappelli](#) - A jazzy skin for the Django Admin-Interface.
- [django-jet](#) - Modern responsive template for the Django admin interface with improved functionality.
- [django-suit](#) - Alternative Django Admin-Interface (free only for Non-commercial use).
- [django-xadmin](#) - Drop-in replacement of Django admin comes with lots of goodies.
- [flask-admin](#) - Simple and extensible administrative interface framework for Flask.
- [flower](#) - Real-time monitor and web admin for Celery.
- [jet-bridge](#) - Admin panel framework for any application with nice UI (ex Jet Django)
- [wooeey](#) - A Django app which creates automatic web UIs for Python scripts.

Table of contents

- Admin Panels
- Algorithms and Design Patterns
- ASGI Servers
- Asynchronous Programming
- Audio
- Authentication
- Build Tools
- Built-in Classes Enhancement
- CMS
- Caching
- ChatOps Tools
- Code Analysis
- Command-line Interface
- Development
- Command-line Tools
- Compatibility
- Computer Vision
- Concurrency and Parallelism
- Configuration
- Cryptography
- Data Analysis
- Data Validation
- Data Visualization
- Database

Awesome Lists

An awesome list is a list of awesome things curated by the community. There are awesome lists about everything from [CLI applications](#) to [fantasy books](#). The [main repository](#) serves as a curated list of awesome lists.



Here are 4,750 public repositories matching this topic...

Awesome Dev Env

A curated list of awesome tools, resources and workflow tips making an awesome development environment.

Inspired by [awesome-go](#), which was in turn inspired by [awesome-python](#).

Contributing

[Guidelines](#) tweaked and adapted from [awesome-go](#) - thanks!

But in short:

- List is alphabetically sorted
- If you think an item shouldn't be here [open an issue](#)

Many thanks to everyone on the [contributor list](#) :)

Content

Documentation

Why documentation is important?

- Take note for meetings
- Help to make your idea clear
- Trace project progress
- Explain your idea to others
- ...

Why not use Word?

- Only Windows and local
- Hard to adjust format
- No code/texmath support

May Contain:

- Text
- Code
- Equation
- Image
- Video
- Table
- Links

Think before code!

Markdown

What's Markdown?

- Light-weighted, portable, rendered to HTML
 - Support codeblock, equation, image, weblink...
 - Source text for ****everything****: websites, notes, books...
- > Use `Paste Image` vscode extension to insert image from clipboard

Shortcomings

- No detailed formatting like font, space, image size...
- No cross reference
- No universal standard

= AsciiDoc

Asciidoctor

A *fast* text processor & publishing toolchain for converting
AsciiDoc to HTML5, DocBook & more.



Download gem
from RubyGems



Checkout source
from GitHub

```
= Hello, AsciiDoc!  
Doc Writer <doc@example.com>  
  
An introduction to  
http://asciidoc.org[AsciiDoc].  
  
== First Section  
  
* item 1  
* item 2  
  
[source,ruby]  
puts "Hello, World!"
```

[Asciidoctor](#) is a fast, open source, Ruby-based text processor for parsing AsciiDoc® into a document model and converting it to output formats such as HTML 5, DocBook 5, manual pages, PDF, EPUB 3, and other formats.

Asciidoctor also has an ecosystem of extensions, converters, build plugins, and tools to help you author and publish content written in [AsciiDoc](#). You can find the documentation for these projects at <https://docs.asciidoctor.org>.

In addition to running on Ruby, Asciidoctor can be executed on a JVM using [AsciidoctorJ](#) or in any JavaScript environment using [Asciidoctor.js](#).

Key documentation

- [Asciidoctor Documentation](#)
- [AsciiDoc Language Documentation](#)
- [AsciiDoc Syntax Quick Reference](#)

“Use AsciiDoc for document markup. Really. It's actually **readable** by humans, easier to parse and way more flexible than XML.

— Linus Torvalds

Asciidoctor Project

The Asciidoctor project is an effort to bring a comprehensive and accessible publishing toolchain, centered around the AsciiDoc syntax, to a growing range of ecosystems, including Ruby, JavaScript and the JVM.

In addition to an AsciiDoc processor and a collection of stylesheets, the project provides

`\subsection{\LaTeX}`

```
\usepackage{xcolor}
```

```
\begin{itemize}
```

```
\item The standard of papers, theses, books
```

```
\item Millions of templates
```

```
\item Flexible and customizable
```

```
\end{itemize}
```

```
\textbf{Tips}: Use \textcolor{red}{snippets} to speed up
```

```
\href{https://castel.dev/post/lecture-notes-1/}{Vim+LaTeX}
```

```
\textbf{Tips}: Use Overleaf for cooperation
```

Cheat sheet is useful

L ^A T _E X Math Cheatsheet			
package		environment	command
Cheng Tan Kyoto University ctan@c-tan.com https://c-tan.com 2018-01-13			
List of Symbols			
Relation Symbols			
$<$	<code><</code>	$>$	<code>></code>
\leq	<code>\leq</code>	\geq	<code>\geq</code>
\ll	<code>\ll</code>	\gg	<code>\gg</code>
\subset	<code>\subset</code>	\supset	<code>\supset</code>
\subseteq	<code>\subseteq</code>	\supseteq	<code>\supseteq</code>
\nsubseteq	<code>\nsubseteq</code>	\nnsupseteq	<code>\nnsupseteq</code>
\sqsubset	<code>\sqsubset</code>	\sqsupset	<code>\sqsupset</code>
\sqsubseteq	<code>\sqsubseteq</code>	\sqsupseteq	<code>\sqsupseteq</code>
\preceq	<code>\preceq</code>	\succeq	<code>\succeq</code>
$=$	<code>=</code>	\doteq	<code>\doteq</code>
\approx	<code>\approx</code>	\equiv	<code>\equiv</code>
\vdash	<code>\vdash</code>	\dashv	<code>\dashv</code>
\smile	<code>\smile</code>	\frown	<code>\frown</code>
\models	<code>\models</code>	\mid	<code>\mid</code>
\prec	<code>\prec</code>	\succ	<code>\succ</code>
\sphericalangle	<code>\sphericalangle</code>	\measuredangle	<code>\measuredangle</code>
\parallel	<code>\parallel</code>	\nparallel	<code>\nparallel</code>
\asymp	<code>\asymp</code>	\bowtie	<code>\bowtie</code>
\vdash	<code>\vdash</code>	\dashv	<code>\dashv</code>
\smile	<code>\smile</code>	\frown	<code>\frown</code>
\models	<code>\models</code>	\mid	<code>\mid</code>
\prec	<code>\prec</code>	\succ	<code>\succ</code>
\sphericalangle	<code>\sphericalangle</code>	\measuredangle	<code>\measuredangle</code>
\parallel	<code>\parallel</code>	\nparallel	<code>\nparallel</code>
\asymp	<code>\asymp</code>	\bowtie	<code>\bowtie</code>
\vdash	<code>\vdash</code>	\dashv	<code>\dashv</code>
\smile	<code>\smile</code>	\frown	<code>\frown</code>
\models	<code>\models</code>	\mid	<code>\mid</code>
\prec	<code>\prec</code>	\succ	<code>\succ</code>
\sphericalangle	<code>\sphericalangle</code>	\measuredangle	<code>\measuredangle</code>
\parallel	<code>\parallel</code>	\nparallel	<code>\nparallel</code>
\asymp	<code>\asymp</code>	\bowtie	<code>\bowtie</code>
\vdash	<code>\vdash</code>	\dashv	<code>\dashv</code>
\smile	<code>\smile</code>	\frown	<code>\frown</code>
\models	<code>\models</code>	\mid	<code>\mid</code>
\prec	<code>\prec</code>	\succ	<code>\succ</code>
\sphericalangle	<code>\sphericalangle</code>	\measuredangle	<code>\measuredangle</code>
\parallel	<code>\parallel</code>	\nparallel	<code>\nparallel</code>
\asymp	<code>\asymp</code>	\bowtie	<code>\bowtie</code>
\vdash	<code>\vdash</code>	\dashv	<code>\dashv</code>
\smile	<code>\smile</code>	\frown	<code>\frown</code>
\models	<code>\models</code>	\mid	<code>\mid</code>
\prec	<code>\prec</code>	\succ	<code>\succ</code>
\sphericalangle	<code>\sphericalangle</code>	\measuredangle	<code>\measuredangle</code>
\parallel	<code>\parallel</code>	\nparallel	<code>\nparallel</code>
\asymp	<code>\asymp</code>	\bowtie	<code>\bowtie</code>
\vdash	<code>\vdash</code>	\dashv	<code>\dashv</code>
\smile	<code>\smile</code>	\frown	<code>\frown</code>
\models	<code>\models</code>	\mid	<code>\mid</code>
\prec	<code>\prec</code>	\succ	<code>\succ</code>
\sphericalangle	<code>\sphericalangle</code>	\measuredangle	<code>\measuredangle</code>
\parallel	<code>\parallel</code>	\nparallel	<code>\nparallel</code>
\asymp	<code>\asymp</code>	\bowtie	<code>\bowtie</code>
\vdash	<code>\vdash</code>	\dashv	<code>\dashv</code>
\smile	<code>\smile</code>	\frown	<code>\frown</code>
\models	<code>\models</code>	\mid	<code>\mid</code>
\prec	<code>\prec</code>	\succ	<code>\succ</code>
\sphericalangle	<code>\sphericalangle</code>	\measuredangle	<code>\measuredangle</code>
\parallel	<code>\parallel</code>	\nparallel	<code>\nparallel</code>
\asymp	<code>\asymp</code>	\bowtie	<code>\bowtie</code>
\vdash	<code>\vdash</code>	\dashv	<code>\dashv</code>
\smile	<code>\smile</code>	\frown	<code>\frown</code>
\models	<code>\models</code>	\mid	<code>\mid</code>
\prec	<code>\prec</code>	\succ	<code>\succ</code>
\sphericalangle	<code>\sphericalangle</code>	\measuredangle	<code>\measuredangle</code>
\parallel	<code>\parallel</code>	\nparallel	<code>\nparallel</code>
\asymp	<code>\asymp</code>	\bowtie	<code>\bowtie</code>
\vdash	<code>\vdash</code>	\dashv	<code>\dashv</code>
\smile	<code>\smile</code>	\frown	<code>\frown</code>
\models	<code>\models</code>	\mid	<code>\mid</code>
\prec	<code>\prec</code>	\succ	<code>\succ</code>
\sphericalangle	<code>\sphericalangle</code>	\measuredangle	<code>\measuredangle</code>
\parallel	<code>\parallel</code>	\nparallel	<code>\nparallel</code>
\asymp	<code>\asymp</code>	\bowtie	<code>\bowtie</code>
\vdash	<code>\vdash</code>	\dashv	<code>\dashv</code>
\smile	<code>\smile</code>	\frown	<code>\frown</code>
\models	<code>\models</code>	\mid	<code>\mid</code>

Pandoc

Pandoc a universal document converter

[About](#)

[Installing](#)

[Getting started](#)

[Demos ▾](#)

[Documentation ▾](#)

[Help](#)

[Extras](#)

[Releases](#)

About pandoc

If you need to convert files from one markup format into another, pandoc is your swiss-army knife. Pandoc can convert between the following formats:

(← = conversion from; → = conversion to; ↔ = conversion from and to)

Lightweight markup formats

- ↔ [Markdown](#) (including [CommonMark](#) and [GitHub-flavored Markdown](#))
- ↔ [reStructuredText](#)
- [AsciiDoc](#)
- ↔ [Emacs Org-Mode](#)
- ↔ [Emacs Muse](#)
- ↔ [Textile](#)
- ← [txt2tags](#)

HTML formats

- ↔ (X)HTML 4
- ↔ HTML5

Ebooks

- ↔ [EPUB](#) version 2 or 3
- ↔ [FictionBook2](#)

Documentation formats

- [GNU TexInfo](#)
- ↔ [Haddock](#) markup

Roff formats

- ↔ [roff man](#)
- [roff ms](#)

TeX formats

- ↔ [LaTeX](#)
- [ConTeXt](#)

XML formats

- ↔ [DocBook](#) version 4 or 5

Word processor formats

- ↔ Microsoft Word [docx](#)
- ↔ Rich Text Format [RTF](#)
- ↔ OpenOffice/LibreOffice [ODT](#)
- [OpenDocument XML](#)
- Microsoft [PowerPoint](#)

Interactive notebook formats

- ↔ [Jupyter notebook \(ipynb\)](#)

Page layout formats

- [InDesign ICML](#)

Wiki markup formats

- ↔ [MediaWiki](#) markup
- ↔ [DokuWiki](#) markup
- ← [TikiWiki](#) markup
- ← [TWiki](#) markup
- ← [Vimwiki](#) markup
- [XWiki](#) markup
- [ZimWiki](#) markup
- ↔ [Jira](#) wiki markup

Slide show formats

- [LaTeX Beamer](#)
- [Slidy](#)
- [reveal.js](#)
- [Slideous](#)
- [S5](#)
- [DZSlides](#)

Pandoc

Markdown to:

- **PDF:** `pandoc --pdf-engine=xelatex --template=tmp.latex xxx.md -o xxx.pdf`
- **LaTeX:** `pandoc --pdf-engine=xelatex --template=tmp.latex xxx.md -o xxx.tex`
- **HTML:** `pandoc xxx.md --toc --o xxx.html --katex`
- **Docx:** `pandoc xxx.md --reference-doc ref.docx --o xxx.docx`
- **Slides:** `pandoc xxx.md --o xxx.html -t revealjs`


LaTeX to:

- **Markdown:** `pandoc xxx.tex --o xxx.md`
- **Docx:** `pandoc xxx.tex --o xxx.docx --bibliography=ref.bib`





Write LaTeX in Markdown


```
1 ---
2 header-includes:
3   - \usepackage{graphicx}
4 ---
5
6 # Test LaTeX
7
8 \begin{figure}[htb]
9 \centering
10 \includegraphics[width=0.48\linewidth]{1-2d.png}
11 \hfill
12 \includegraphics[width=0.48\linewidth]{1-3d.png}
13 \end{figure}
```


Slidev

 Slidev

Guide ▾ Theme ▾ Customize ▾ Resources ▾ English ▾



 Search CTRL K




Slidev

Presentation **Slides** for **Developers** Beta

[Get Started](#) [Learn More](#)

or try it now

```
$ npm init slidev
```

 Stars 17k

./slides.md

```
---
layout: cover
background: https://sli.dev/demo-cover.png
---

# Welcome to Slidev!

Presentation Slides for Developers

---

# Page 2

- 📄 Write slides in a single Markdown file
- 🌈 Themes, code block
```

Page 2

- 📄 Write slides in a single Markdown file
- 🌈 Themes, code block

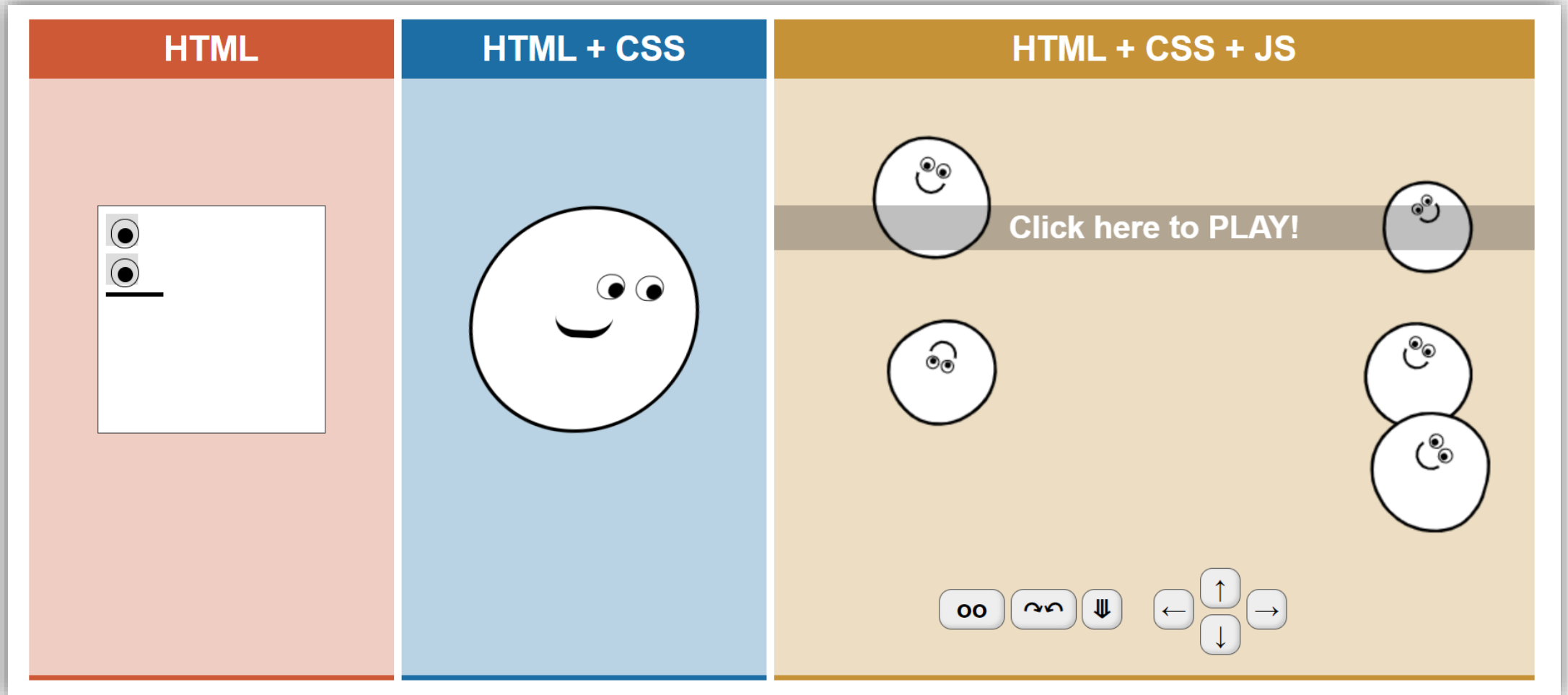
Online Tools

- Overleaf
- Notion
- Grammarly
- Google/Tencent Docs

Documentation

Personal Website

Frontend Basic



From <https://html-css-js.com/>

Frontend Basic

HTML

```
19 <!DOCTYPE html>
20 <html>
21 <head>
22 <title>HTML CSS JS</title>
23 </head>
24 <body>
25 <h1 id="Hello">World</h1>
26 <p>blablabla</p>
27 </body>
28 </html>
```

CSS

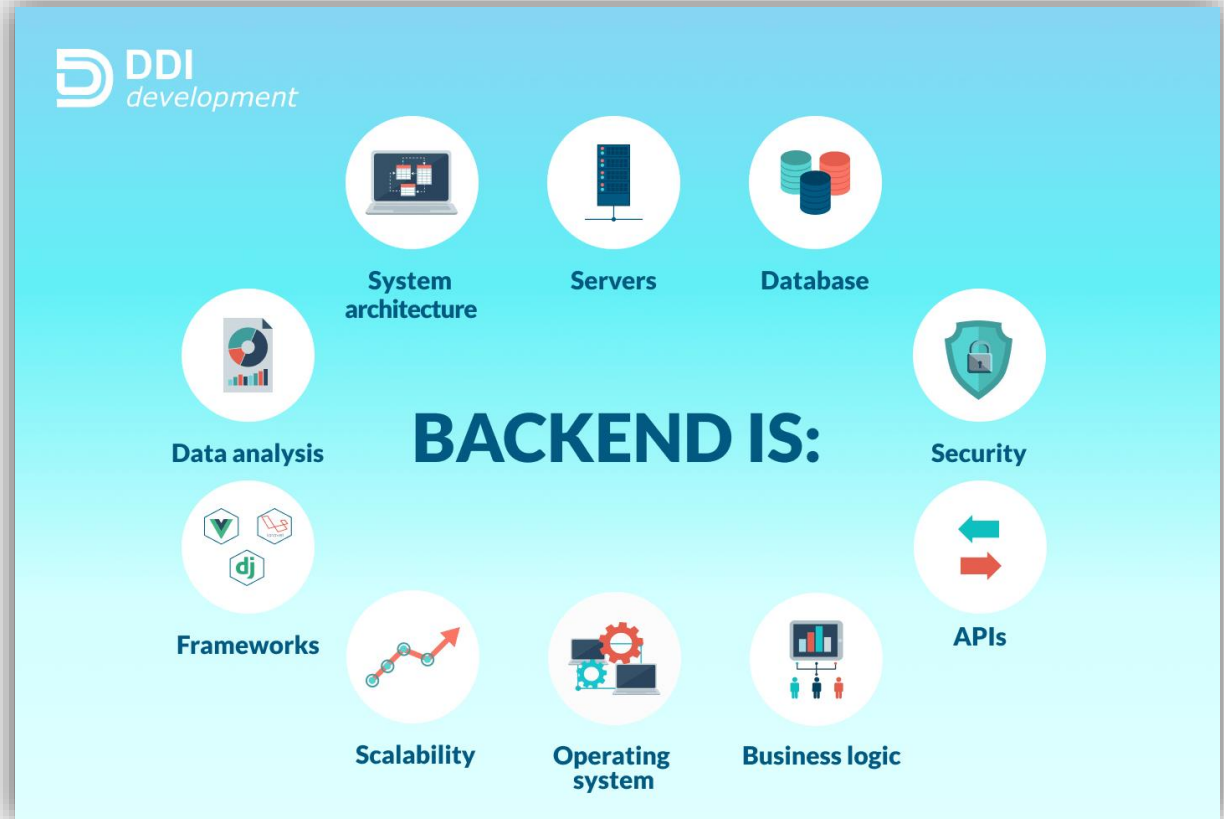
```
1 /* CSS styles */
2 h1 {
3   font-family: Impact, sans-serif;
4   color: #CE5937;
5 }
```

Javascript

```
1 // JavaScript
2 document.getElementById('Hello').innerText +=
3   " Editors";
```

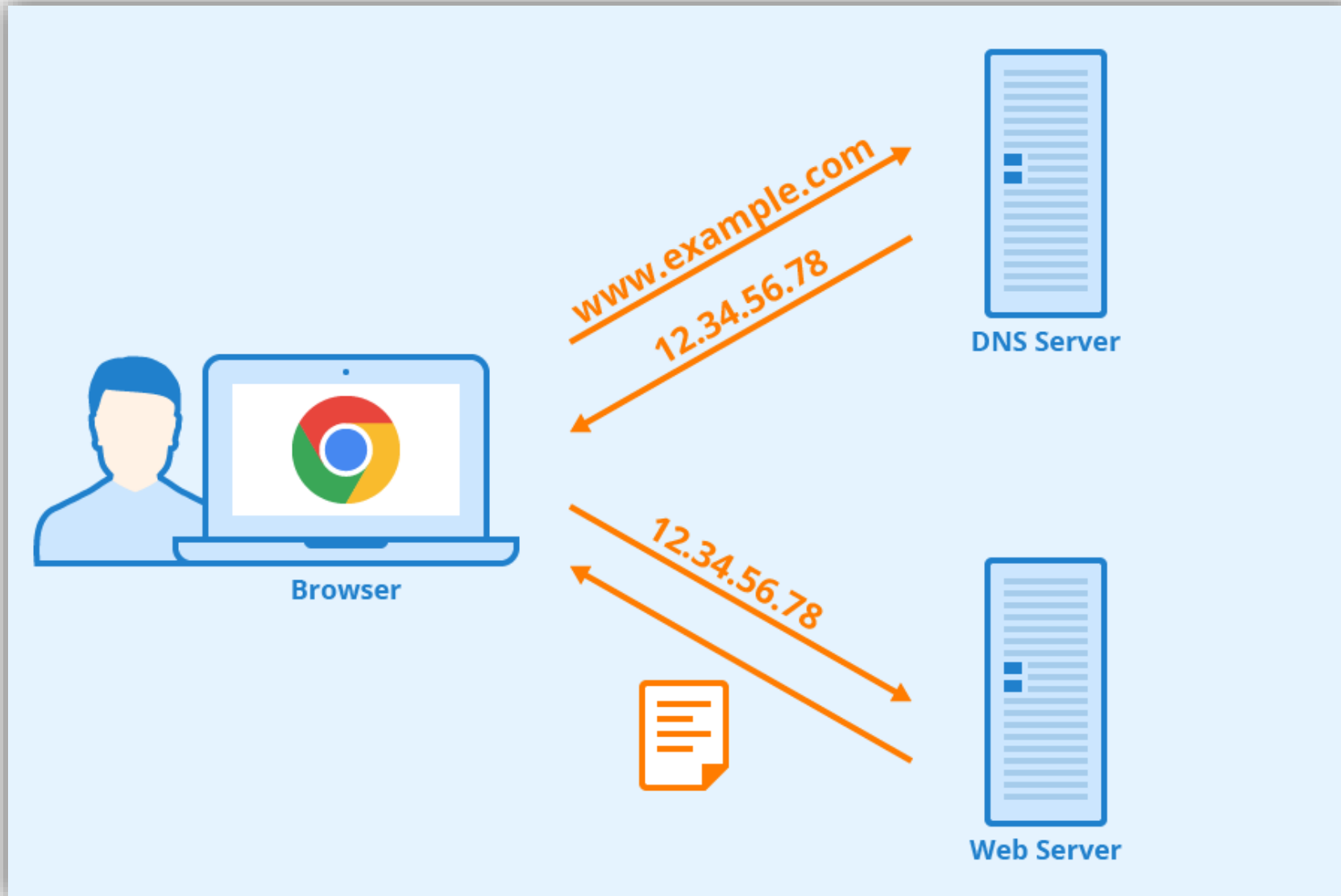

Backend Basic

- A (group of) server(s)
- Deal with requests
- Access database
- Run logic on server-side
- ...



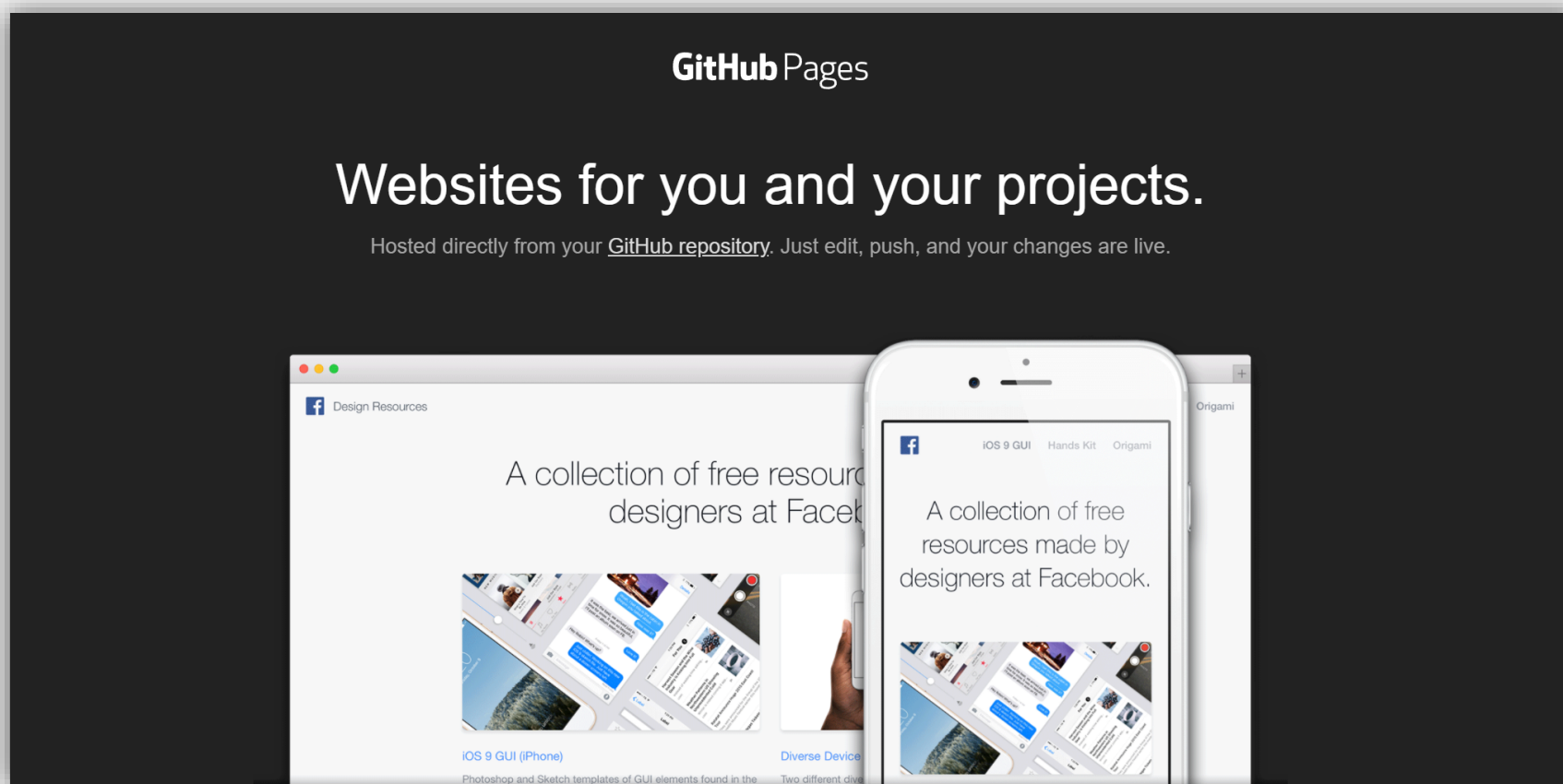
Everything you can't see

DNS




Github Pages

Free static site hosting service



Static Site Generator

HUGO 🔍 Search the Docs



The world's fastest framework for building websites

Hugo is one of the most popular open-source static site generators. With its amazing speed and flexibility, Hugo makes building websites fun again.


[Quick Start](#)

November 17, 2021

This version fixes one bug introduced in 0.89.0.

November 15, 2021

This version fixes a couple of bugs introduced in 0.89.0.

[HOME](#) [DOCS](#) [RESOURCES](#) [SHOWCASE](#) [NEWS](#) 🔍 Search the docs

Transform your plain text into static websites and blogs.

Simple

No more databases, comment moderation, or pesky updates to install—just *your content*.

[How Jekyll works →](#)

Static

[Markdown](#), [Liquid](#), HTML & CSS go in. Static sites come out ready for deployment.

[Jekyll template guide →](#)

Blog-aware

Permalinks, categories, pages, posts, and custom layouts are all first-class citizens here.

[Migrate your blog →](#)

[Quick-start Instructions](#)

```
~ $ gem install bundler jekyll
```

Github Action

```
1  name: github pages
2
3  on:
4    push:
5      branches:
6        - master # Set a branch to deploy
7
8  jobs:
9    deploy:
10     runs-on: ubuntu-18.04
11     steps:
12       - uses: actions/checkout@v2
13         with:
14           submodules: true # Fetch Hugo themes (true OR recursive)
15           fetch-depth: 0   # Fetch all history for .GitInfo and .Lastmod
16
17       - name: Setup Hugo
18         uses: peaceiris/actions-hugo@v2
19         with:
20           hugo-version: '0.82.1'
21           extended: true
22
23       - name: Build
24         run: hugo --minify
25
26       - name: Deploy
27         uses: peaceiris/actions-gh-pages@v3
28         with:
29           github_token: ${ secrets.GITHUB_TOKEN }
30           # publish_dir: ./docs
31           publish_branch: gh-pages
32           cname: lwruan.com
```

Google Search Console

欢迎使用 Google Search Console

要开始使用，请先选择资源类型



网域 新

- 给定网域的所有子网域的所有网址 (m.、www. 等)
- 与给定网域对应的所有 https 或 http 网址
- 需进行 DNS 验证

example.com

请输入域名或子域名

继续

或



网址前缀

- 仅包含所输地址名下的网址
- 仅包含采用指定协议的网址
- 支持多种验证方法

https://www.example.com

请输入网址

继续

Thanks for Listening