

GitSite's Guide

How to use GitSite.

Crypto Michael

https://gitsite.org/books/gitsite-guide/

2025-05-25

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GitSite Introduction

GitSite is a document platform based on modern Web technology, any individual and team can organize and write documents through Git, and automatically generate HTML5-compliant web sites.

Git is currently the most popular version control system, and hosting platforms such as GitHub provide powerful and reliable hosting of Git repositories. Many individuals and teams manage Markdown documents through Git on platforms like GitHub. GitSite does not require the use of specialized front-end build tools, nor does it require cumbersome configuration to quickly generate a web site based on Markdown documents from Git repositories, and all contents on the site is static HTML pages.

Design Goals

GitSite is designed to support Git repositories with no more than 10,000 Markdown documents, usually product documentation, knowledge bases, personal blogs, or a book. If the number of documents is very large, you may want to consider using database management, as GitSite's static page-based approach can slow down front-end searches significantly.

Install and Deploy

Install GitSite command line tool

Use npm to install GitSite command line tool:

```
$ npm install -g gitsite-cli
```

Use the following command to update the latest version:

```
$ npm update -g gitsite-cli
```

Setup a new site

First create an empty directory which will be used as your site's root directory and also a git repo. Let's name it as awesome :

```
$ mkdir awesome
```

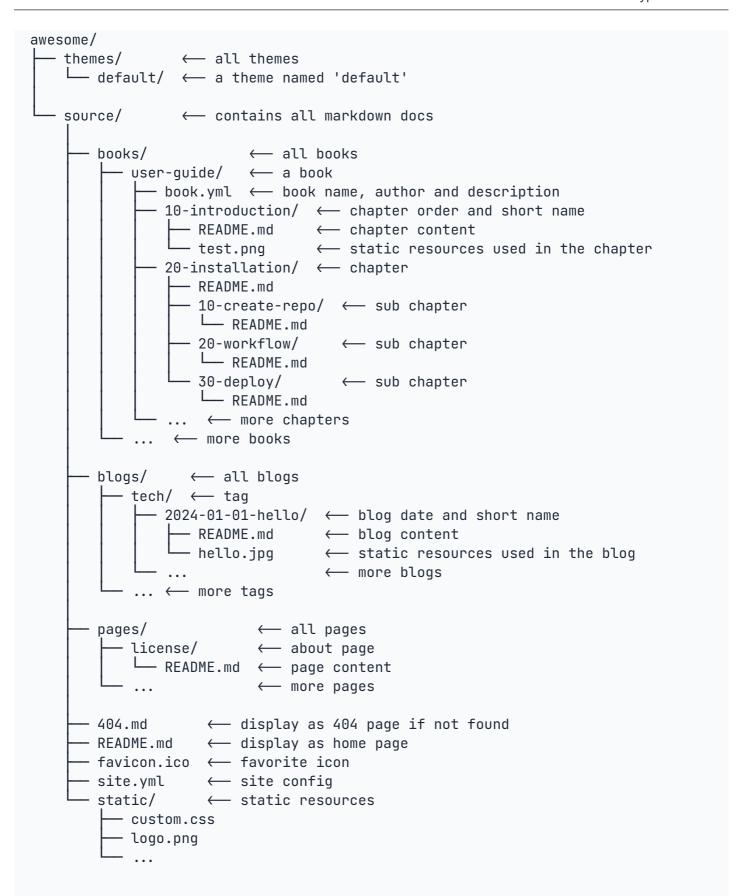
Run gitsite-cli init under the awesome directory:

```
$ cd awesome
$ gitsite-cli init
```

The GitSite command line tool does the following job to initialize your new site:

- 1. Check if current directory is an empty directory;
- 2. Download sample site from GitHub;
- 3. Unzip the sample site.

Now you can find the following files and directories under your awesome directory:

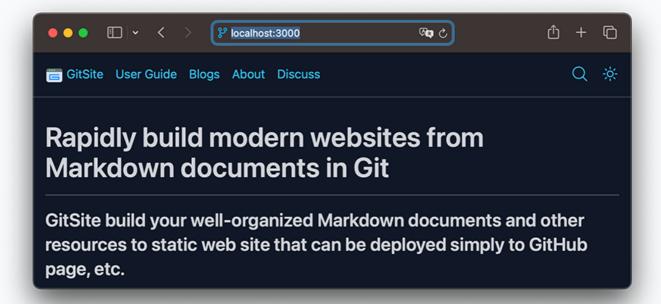


Preview site on local

Run | gitesite-cli serve | to start a local HTTP server to serve the site:

\$ gitsite-cli serve

Then you can visit your site on http://localhost:3000:



Update site settings

The site settings are stored in <code>source/site.yml</code> . You should update the settings:

- · Set your site's name, description, etc;
- Set your site's navigation menus;
- Set your Disqus, Google analytics ID, or just remove it.

Deploy to GitHub page

To deploy site to GitHub page, first create a repo on GitHub and push your local files to the remote.

To enable GitHub page, go to repo - Settings - Pages - Build and deployment: select GitHub Actions .

Make a new push to trigger the Action for deployment.

The workflow script file is .github/workflows/gitsite.yml . Check the sample gitsite.yml.

You must set the root-path: /<rootPath> under which your site is served for GitHub pages deployment without custom domain, it is often ///<p

site:

set when your site is served for GitHub pages without custom domain:
root-path: /gitsite

Check the sample site.yml.

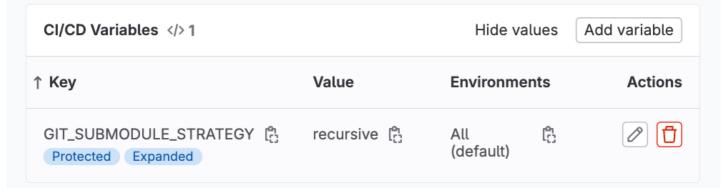
Deploy to GitLab page

It is similar to deploy site to GitLab, and GitLab requires a .gitlab-ci.yml script.

Please make sure the submodule function is enabled by: Project - Settings - CI/CD - Variables - Add variable:

Key: GIT SUBMODULE STRATEGY

Value: recursive



Check the sample .gitlab-ci.yml.

Deploy to CloudFlare page

To deploy site to CloudFlare page, create application from GitHub repo, then open application settings - Builds & deployments - Build configurations - Edit configurations :

- Framework preset: None
- Build command: npm install gitsite-cli -g && gitsite-cli build -o _site -v

- Build output directory: /_site
- Root directory: leave empty.

Deploy to Vercel

To deploy site to Vercel, create a new project by import GitHub repo, then configure project:

- Framework Preset: Other
- Root Direction: ./

Build and Output Settings:

- Build Command: npm install -g gitsite-cli && gitsite-cli build -o dist -v
- Output Directory: dist
- Install Command: leave empty.

Deploy to Self-hosted Nginx

GitSite generates pure HTML files by command <code>gitsite-cli build</code> . You can specify the output directory (default to <code>dist</code>) by <code>--output</code> or <code>-o</code> :

```
$ gitsite-cli build -o dist -v
```

You can run Nginx by Docker quickly:

```
$ docker run --rm -p 8000:80 -v /path/to/dist:/usr/share/nginx/html
nginx:latest
```

Site is served and can be previewed at http://localhost:8000 .

Organizing Your Contents

GitSite helps you organize your contents. There are 3 types of contents that GitSite supports. All files are put in source directory:

```
source/
books/
blogs/
pages/
site.yml
```

Books

A book contains a set of markdown documents organized with a tree structure:

Each directory must have a markdown file named README.md . GitSite scans the directory and generates book index as tree, sorted by directory name.

To specify the order, you can add sequence number in the directory name. For example:

This re-order the index with b, c and a. The sequence number is used for order and will be dropped in URL, so re-order a directory does not change the URL.

Blogs

Blogs are simple markdown files organized with a list of categories, and each directory name starts with ISO date format yyyy-MM-dd:

Pages

Pages are used to display single pages. Each page has a simple directory name:

```
pages/

— about/ ← URL: /pages/about/index.html
— license/ ← URL: /pages/license/index.html
— privacy/ ← URL: /pages/privacy/index.html
```

Pages are usually serves pages like License , Term of Service , etc.

Index file

All markdown documents are named README.md for this can be viewed on GitHub directly, and build to index.html. The first line of README.md must be heading 1, which is treated as title, and the rest of lines are content:

```
# This is title
This is content ...
More content ...
```

Write Content

Markdown is an easy-to-read, easy-to-write language for formatting plain text. You can use Markdown syntax, along with some additional HTML tags, to format your writing on GitHub or any other git repository.

If you're new to Markdown, you might want to start with Basic syntax or Markdown guide.

Basic Syntax

Headings

To create a heading, add 1 ~ 6 # symbols before your heading text.

A first-level heading has 1 # symbol, a second-level heading has 2 # symbols, and so on:

```
# Heading 1
## Heading 2
### Heading 3
#### Heading 4
##### Heading 5
###### Heading 6
```

Heading 1

Heading 2

Heading 3

Heading 4

Heading 5

Heading 6

Styling text

You can indicate emphasis with bold, italic, strikethrough, subscript, or superscript text in comment fields and .md files.

Style	Syntax	Example	Output
Bold	** **	This is a **bold** text.	This is a bold text.
Italic	* *	This is a *italic* text.	This is a <i>italic</i> text.
Strikethrough	~~ ~~	This is ~~not~~ a good idea.	This is not a good idea.
Subscript		This is a _{subscript} text.	This is a _{subscript} text.
Superscript		This is a ^{superscript} text.	This is a ^{superscript} text.

Quoting text

You can quote text with a > .

```
> To be, or not to be, that is the question
>
> -- Hamlet
```

To be, or not to be, that is the question.

-- Hamlet

Links

You can create an inline link by wrapping link text in brackets [] , and then wrapping the URL in parentheses () .

```
[License](/pages/license/index.html)
[GitHub](https://github.com)
```

License

GitHub

Images

You can display an image by adding ! and wrapping the alt text in [] . Alt text is a short text equivalent of the information in the image. Then, wrap the link for the image in parentheses () .

```
![Cat Logo](cat.png)
```



Lists

You can make an unordered list by preceding one or more lines of text with [-], * or + .

- JavaScript
- Python
- Rust
- JavaScript
- Python
- Rust

To order your list, precede each line with a number.

- JavaScript
- 2. Python
- 3. Rust
- 1. JavaScript

- 2. Python
- 3. Rust

Nested lists

You can create a nested list by indenting one or more list items below another item.

- Programming Languages
 - JavaScript
 - Python
 - Rust
- Operating Systems
 - 1. Windows
 - 2. Linux
 - 3. macOS
- Programming Languages
 - JavaScript
 - Python
 - Rust
- Operating Systems
 - 1. Windows
 - 2. Linux
 - 3. macOS

Paragraphs

You can create a new paragraph by leaving a blank line between lines of text.

Footnotes

You can add footnotes to your content by using this bracket syntax:

Earth is the third planet from the Sun [^sun].

Jupiter is the fifth planet from the Sun and the largest in the Solar

System. [^solar_system].

[^sun]: The [Sun](https://en.wikipedia.org/wiki/Sun) is the star at the center of the Solar System.

[^solar_system]: The Solar System is the gravitationally bound system of the Sun and the objects that orbit it.

Earth is the third planet from the Sun [1].

Jupiter is the fifth planet from the Sun and the largest in the Solar System. [2].

The position of a footnote in your Markdown does not influence where the footnote will be rendered. You can write a footnote right after your reference to the footnote, and the footnote will still render at the bottom of the Markdown.

- 1. The Sun is the star at the center of the Solar System. \leftarrow
- 2. The Solar System is the gravitationally bound system of the Sun and the objects that orbit it. ←

Table

You can build tables to organize information.

Creating a table

You can create tables with pipes | and hyphens - . Hyphens are used to create each column's header, while pipes separate each column. You must include a blank line before your table in order for it to correctly render.

First Header	Second Header
Content Cell	Content Cell
Content Cell	Content Cell

The pipes on either end of the table are optional.

Cells can vary in width and do not need to be perfectly aligned within columns. There must be at least three hyphens in each column of the header row.

```
| Command | Description |
|--- | --- |
| git status | List all new or modified files |
| git diff | Show file differences that haven't been staged |
```

Command	Description	
git status	List all new or modified files	
git diff	Show file differences that haven't been staged	

Formatting content within your table

You can use formatting such as links, inline code blocks, and text styling within your table:

```
| Command | Description |
| --- | --- |
| `git status` | List all *new or modified* files |
| `git diff` | Show file differences that **haven't been** staged |
```

Command	Description
git status	List all <i>new or modified</i> files
git diff	Show file differences that haven't been staged

You can align text to the left, right, or center of a column by including colons : to the left, right, or on both sides of the hyphens within the header row.

Left-aligned	Center-aligned	Right-aligned	
git status	git status	git status	
git diff	git diff	git diff	

To include a pipe | as content within your cell, use a \ before the pipe:

Name	Character
Backtick	`
Pipe	

Code Blocks

You can create fenced code blocks by placing triple backticks before and after the code block. We recommend placing a blank line before and after code blocks to make the raw formatting easier to read.

```
function test() {
   console.log('Hello, world.');
}
```

```
function test() {
  console.log('Hello, world.');
}
```

Syntax highlighting

You can add an optional language identifier to enable syntax highlighting in your fenced code block.

Syntax highlighting changes the color and style of source code to make it easier to read.

For example, to syntax highlight Python code:

```
"" python
#!/usr/bin/env python3

def main():
    name = 'Bob'
    print(f'Hello, {name}')

if __name__ == '__main__':
    main()
"""
```

This will display the code block with syntax highlighting:

```
#!/usr/bin/env python3

def main():
    name = 'Bob'
    print(f'Hello, {name}')

if __name__ == '__main__':
    main()
```

Alerts

Alerts are a Markdown extension based on the blockquote syntax that you can use to emphasize critical information. On GitHub, they are displayed with distinctive colors and icons to indicate the significance of the content.

Use alerts only when they are crucial for user success and limit them to one or two per article to prevent overloading the reader. Additionally, you should avoid placing alerts consecutively.

To add an alert, add text inside a fenced code block with the alert type=note identifier. This is **different** from GitHub which uses a special blockquote line to specify the alert type. Five types of alerts are available:

```
Useful information that users should know, even when skimming content.

"alert type=tip
Helpful advice for doing things better or more easily.

"alert type=important
Key information users need to know to achieve their goal.

"alert type=warning
Urgent info that needs *immediate* user attention to avoid problems.

"alert type=caution
Advises about **risks** or negative outcomes of certain actions.

""
```

(i) Note

Useful information that users should know, even when skimming content.



Helpful advice for doing things better or more easily.

① Important

Key information users need to know to achieve their goal.

Urgent info that needs immediate user attention to avoid problems.

① Caution

Advises about **risks** or negative outcomes of certain actions.

To specify the alert title, use title=Xyz:

```
```alert type=caution title=Error
There is an ERROR!
```

#### ① Error

There is an ERROR!

Title that contains spaces must be quoted with ":

```
```alert type=tip title="Useful Tips"
Helpful advice for doing things better or more easily.
```
```

#### 

Helpful advice for doing things better or more easily.

# **Videos**

To embed a video, add URL inside a fenced code block with the video identifier.

```
```video
https://www.youtube.com/watch?v=RcnksOUugcA
```



The default player aspect ratio is 4:3. You can set ratio by ratio=16:9 , and set max width with 640px by max-width=640 . Alignment can also be set to left , center or right :

```
```video ratio=16:9 max-width=640 align=center
https://www.youtube.com/watch?v=RcnksOUugcA
```
```



GitSite now support videos from YouTube and Bilibili.

Advanced Formatting

GitSite uses markdown plugins to extend the markdown format. You can create mathematical expressions, ASCII art, QRCode, diagrams and question forms in an easy way.

Mathematical Expressions

To enable clear communication of mathematical expressions, GitSite supports LaTeX formatted math within Markdown. For more information, see LaTeX/Mathematics in Wikibooks.

GitSite's math rendering capability uses Katex: an open source, JavaScript-based display engine.

Writing inline expressions

You can surround the expression with dollar symbols \$.

```
This sentence uses `$` delimiters to show math inline: \sqrt{3x-1}+(1+x)^2.
```

This sentence uses \$ delimiters to show math inline: $\sqrt{3x-1}+(1+x)^2$.

Writing expressions as blocks

To add a math expression as a block, add expression inside a fenced code block with the math identifier.

```
```math
\left(\sum_{k=1}^n a_k b_k \right)^2 \leq \left(\sum_{k=1}^n a_k^2 \right)
```
```

$$\left(\sum_{k=1}^n a_k b_k
ight)^2 \leq \left(\sum_{k=1}^n a_k^2
ight) \left(\sum_{k=1}^n b_k^2
ight)$$

You can set the alignment to center or right. For example, use align=center to set alignment to center:

```
```math align=center
\left(\sum_{k=1}^n a_k b_k \right)^2 \leq \left(\sum_{k=1}^n a_k^2 \right)
```
```

$$\left(\sum_{k=1}^n a_k b_k
ight)^2 \leq \left(\sum_{k=1}^n a_k^2
ight) \left(\sum_{k=1}^n b_k^2
ight)$$

You can still use GitHub-styled math expression block by start a new line and delimit the expression with two dollar symbols \$\$, but you cannot set alignment by this way (always display in center):

\$\$
\left(\sum_{k=1}^n a_k b_k \right)^2 \leq \left(\sum_{k=1}^n a_k^2 \right) \left(\sum_{k=1}^n b_k^2 \right)
\$\$

$$\left(\sum_{k=1}^n a_k b_k
ight)^2 \leq \left(\sum_{k=1}^n a_k^2
ight) \left(\sum_{k=1}^n b_k^2
ight)$$

☐ Tip

Use the visual editor provided by Wiris can help you write math expressions much easier.

Writing chemical equations

The Katex also supports chemical equations by the mhchem extension.

```
Chemical equation example: ce{CO2 + C -> 2 CO}.
```

Chemical equation example: $CO_2 + C \longrightarrow 2 \ CO$.

A complex chemical equation as a block:

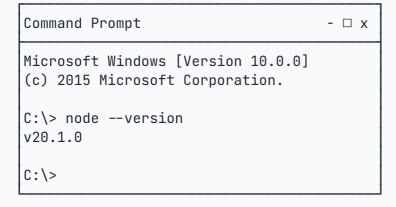
```
```math
\ce{Hg^2+ ->[I-] HgI2 ->[I-] [Hg^{II}I4]^2-}
```
```

$$Hg^{2+} \xrightarrow{I^{-}} HgI_{2} \xrightarrow{I^{-}} [Hg^{II}I_{4}]^{2-}$$

ASCII Art

To create an ASCII art, just add identifier ascii to code blocks:





QRCode

To create a QRCode, add text inside a fenced code block with the qrcode identifier.

GitSite's QRCode rendering capability uses qrcode-svg: an open source, JavaScript-based library.

```
```qrcode
https://gitsite.org
```
```

The text inside the fenced code block will be converted to a QRCode:



Image can be set by URL:

```
```qrcode image=like.png
https://gitsite.org
```
```



You can specify some extra arguments to control the QRCode:

| Parameter | Description |
|------------------------------|--|
| ecl=[l m h q] | The error correction level, default to ecl=1. |
| width=[size-in-px] | The width in px, default to width=200 . |
| align=[left center right] | The alignment of the QRCode, default to align=left . |
| image=[URL] | The image URL, default to none. |
| image-width=[size-in-
px] | The image width, default to auto. |
| info | Display the text content, if present. |
| link | Display the text as URL, if info present and the text is a valid link. |

Example:

```
```qrcode ecl=m width=300 align=center info link
https://gitsite.org
```



https://gitsite.org

# **Diagrams**

You can create diagrams to convey information through charts and graphs.

# Creating Mermaid diagrams

Mermaid is a Markdown-inspired tool that renders text into diagrams. For example, Mermaid can render flow charts, sequence diagrams, pie charts and more. For more information, see the Mermaid documentation.

GitSite don't require Mermaid JavaScript on page because it pre-compile Mermaid diagrams to SVGs which are embeded into HTML.

To create a Mermaid diagram, add Mermaid syntax inside a fenced code block with the mermaid identifier.



It is a good practice that use Mermaid live editor to make sure your markdown text can be compiled to Mermaid diagrams successfully.

# Creating flow chart

You can create a flow chart by specifying values and arrows.

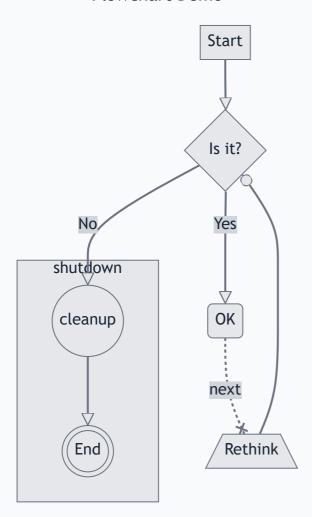
```
""mermaid

title: Flowchart Demo

flowchart TD
 A[Start] --> B{Is it?}
 B -->|Yes| C(OK)
 C -. next .-x D[/Rethink\]
 D --o B
 B -->|No| E((cleanup))
 subgraph shutdown
 E --> F(((End)))
```

end

#### Flowchart Demo



# Creating sequence diagram

A sequence diagram is an interaction diagram that shows how processes operate with one another and in what order.

```
imermaid

title: Sequence Diagram Demo

sequenceDiagram
 actor Alice
 autonumber
 Alice->>+John: Hello John, how are you?
 Alice->>+John: John, can you hear me?
```

```
Note right of John: John should response

John-->>-Alice: Hi Alice, I can hear you!

Note over Alice, John: A typical interaction

John-->>-Alice: I feel great!

loop Every minute

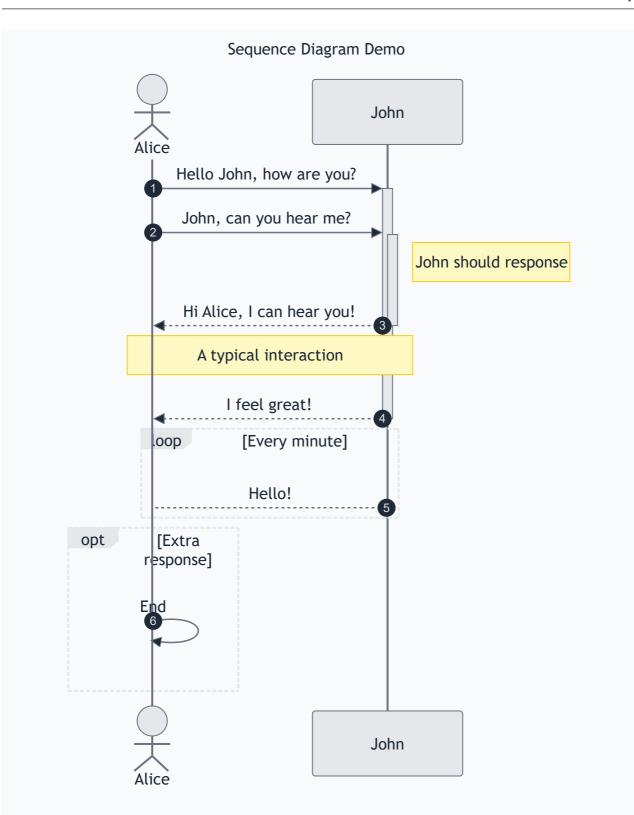
John-->Alice: Hello!

end

opt Extra response

Alice->>Alice: End

end
```

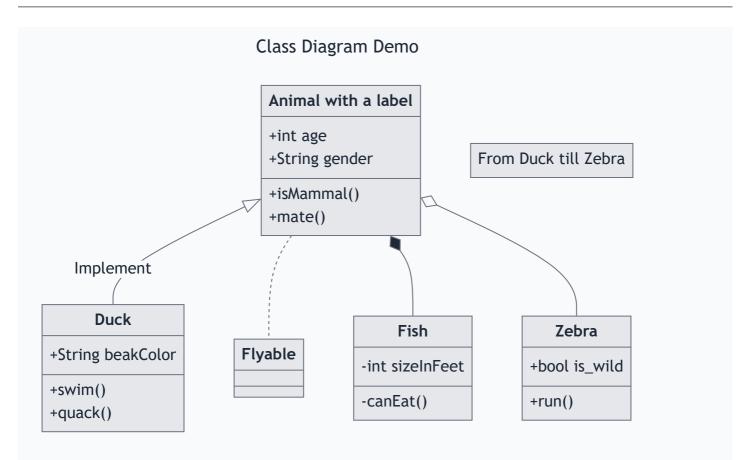


# Creating class diagram

The class diagram is the main building block of object-oriented modeling.

```
```mermaid
---
title: Class Diagram Demo
---
```

```
classDiagram
   class Animal["Animal with a label"]
   note "From Duck till Zebra"
   Animal < | -- Duck : Implement
   Animal .. Flyable
   Animal *-- Fish
   Animal o-- Zebra
   Animal : +int age
   Animal : +String gender
   Animal: +isMammal()
   Animal: +mate()
   class Duck{
   +String beakColor
   +swim()
   +quack()
   class Fish{
   -int sizeInFeet
   -canEat()
    }
   class Zebra{
   +bool is_wild
   +run()
    }
```



Creating state diagram

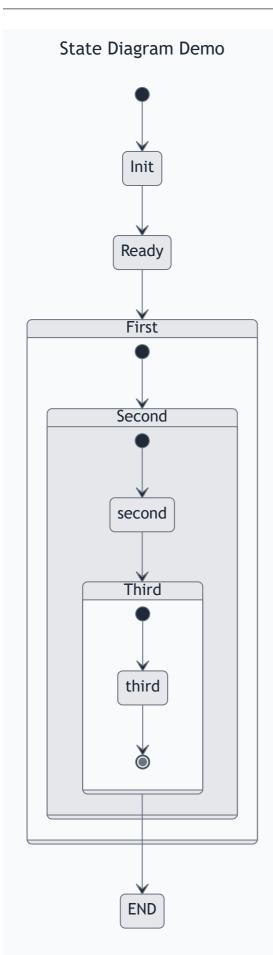
A state diagram is a type of diagram used in computer science and related fields to describe the behavior of systems.

```
title: State Diagram Demo
---
stateDiagram-v2
  [*] --> Init
  Init --> Ready
  Ready --> First
  state First {
    [*] --> Second

    state Second {
        [*] --> third

        state Third {
        [*] --> third
```

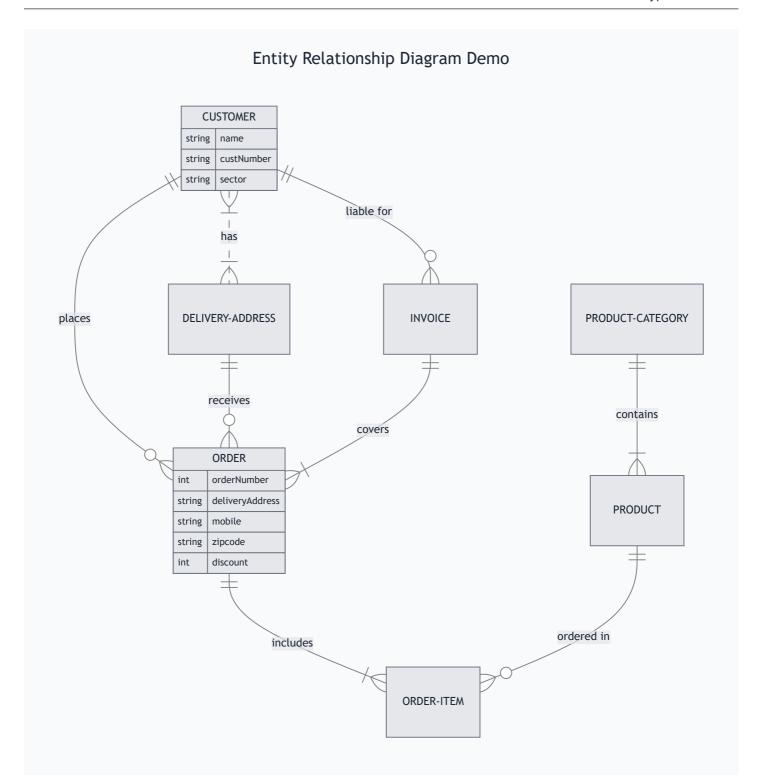
```
third --> [*]
}
}
Third --> END
```



Creating entity relationship diagram

An entity relationship model (or ER model) describes interrelated things of interest in a specific domain of knowledge.

```
```mermaid
title: Entity Relationship Diagram Demo
erDiagram
 CUSTOMER {
 string name
 string custNumber
 string sector
 }
 ORDER {
 int orderNumber
 string deliveryAddress
 string mobile
 string zipcode
 int discount
 }
 CUSTOMER } | ... | { DELIVERY-ADDRESS : has
 CUSTOMER ||--o{ ORDER : places
 CUSTOMER ||--o{ INVOICE : "liable for"
 DELIVERY-ADDRESS | | --o{ ORDER : receives
 INVOICE ||--|{ ORDER : covers
 ORDER | | -- | { ORDER-ITEM : includes
 PRODUCT-CATEGORY | | -- | { PRODUCT : contains
 PRODUCT | | --o{ ORDER-ITEM : "ordered in"
```



# Creating pie chart

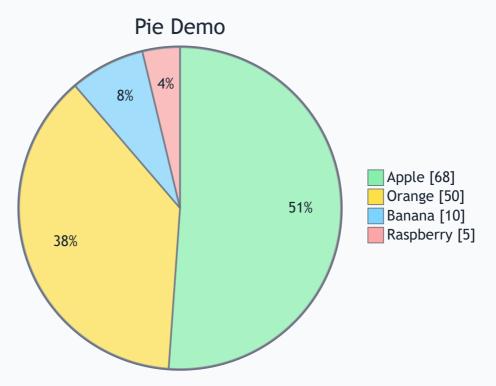
A pie chart is a circular statistical graphic, which is divided into slices to illustrate numerical proportion.

```
```mermaid
pie showData
title Pie Demo
"Apple" : 68
```

```
"Orange": 50

"Banana": 10

"Raspberry": 5
```



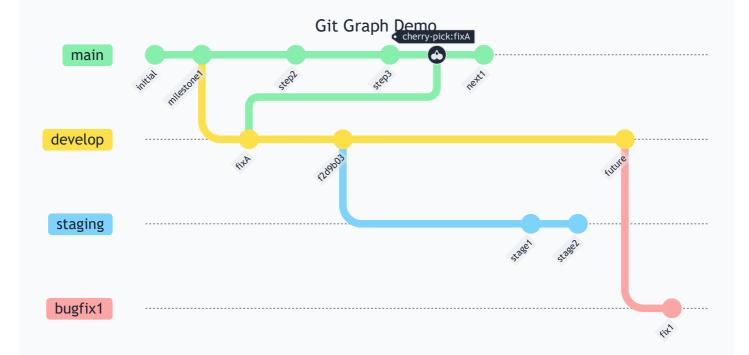
Creating git graph

A Git Graph is a pictorial representation of git commits and git actions on various branches.

```
""mermaid
---
title: Git Graph Demo
---
gitGraph
    commit id: "initial"
    commit id: "milestone1"
    branch develop
    commit id:"fixA"
    checkout main
    commit id:"step2"
    checkout develop
    commit id:"f2d9b03"
```

```
checkout main
  commit id:"step3"
  cherry-pick id:"fixA"
  commit id:"next1"
  checkout develop
  branch staging
  commit id:"stage1"
  commit id:"stage2"
  checkout develop
  commit id:"future"
  branch bugfix1
  commit id:"fix1"

>>>
```



Alignment

To align a Mermaid diagram, add align=left, align=center or align=right after the mermaid identifier:

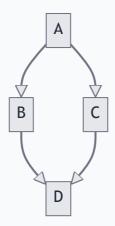
```
```mermaid align=center

title: Flowchart in center

graph TD;
```

```
A-->B;
A-->C;
B-->D;
C-->D;
```

#### Flowchart in center



## **Questions**

#### **Creating Questions**

You can create a question form by add identifier question and subtype with a code block.

## Creating single selection

Use question type=radio to create a single selection form:

```
```question type=radio
Which is the first browser that support **JavaScript**?
---
Internet Explorer
[x] Netscape Navigator
Mozilla Firefox
Google Chrome
```

The question and anwsers are seperated by $\begin{bmatrix} --- \end{bmatrix}$, and use $\begin{bmatrix} x \end{bmatrix}$ to mark the correct answer.

Which is the first browser that support JavaScript?

- Internet Explorer
- Netscape Navigator
- Mozilla Firefox
- Google Chrome

Creating multiple selections

Use question type=checkbox to create a multiple selection form:

```
```question type=checkbox
The planets that in the solar system:

```

<pre>[x] Earth [x] Mercury    Moon    Halley [x] Jupiter</pre>
The planets that in the solar system:    Earth   Mercury   Moon   Halley   Jupiter
Creating text input  Use question type=text to create a text input form:
```question type=text The largest planet in the solar system is: Jupiter
The largest planet in the solar system is:
Add ignorecase to ignore the case of answer:
<pre>```question type=text ignorecase The largest planet in the solar system is (ignore case): Jupiter ```</pre>
Both Jupiter and jupiter are correct answer:

The largest planet in the solar system is (ignore case):

Creating date input

Use question type=date to create a date input form:

```
```question type=date
When were the first modern Olympic Games held? (July 6, 1896)

1896-04-06
```
```

The provided answer must be ISO-8601 date format yyyy-MM-dd.

When were the first modern Olympic Games held? (July 6, 1896)



Customizing labels

You can also specify the label of submit, correct and wrong:

```
```question type=radio submit=Validate correct="Yes, it is correct!" wrong="S
Which is the first browser that support **JavaScript**?

 Internet Explorer
[x] Netscape Navigator
 Mozilla Firefox
 Google Chrome
```
```

Which is the first browser that support JavaScript?

- Internet Explorer
- Netscape Navigator
- Mozilla Firefox

| ○ Google Chrome | |
|-----------------|--|
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Music

To create a sheet music, add text inside a fenced code block with the abcjs identifier.

GitSite uses abcjs to render sheet music. Abcjs is an open source, JavaScript-based library that makes it easy to incorporate sheet music on websites.

You have to add the JavaScript because it cannot be rendered offline:

```
<script src="/static/abcjs-basic.js"></script>
<script src="/static/abcjs-init.js"></script>
```

The Abc notation inside the fenced code block will be converted to a sheet music:

```
T: Cooley's

M: 4/4

Q: 1/4=120

L: 1/8

R: reel

K: Emin

|:D2|EB{c}BA B2 EB|~B2 AB dBAG|FDAD BDAD|FDAD dAFD|

EBBA B2 EB|B2 AB defg|afe^c dBAF|DEFD E2:|

|:gf|eB B2 efge|eB B2 gedB|A2 FA DAFA|A2 FA defg|

eB B2 eBgB|eB B2 defg|afe^c dBAF|DEFD E2:|
```

Cooley's

reel



You can specify the max width by max-width=640 and the alignment by align=center. The really interesting thing is that you can play the music by controls instruction:

```
T: Cooley's

M: 4/4

Q: 1/4=120

L: 1/8

R: reel

K: Emin

|:D2|EB{c}BA B2 EB|~B2 AB dBAG|FDAD BDAD|FDAD dAFD|

EBBA B2 EB|B2 AB defg|afe^c dBAF|DEFD E2:|

|:gf|eB B2 efge|eB B2 gedB|A2 FA DAFA|A2 FA defg|

eB B2 eBgB|eB B2 defg|afe^c dBAF|DEFD E2:|
```


☐ Tip

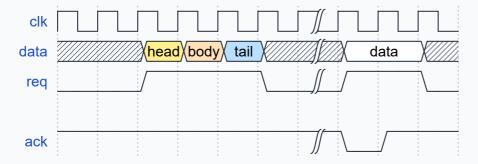
The offical abcjs website provides a live editor with synth, so you can edit your sheet and check if it has errors.

Digital Timing

To create a digital timing diagram (wave form), add text inside a fenced code block with the wavedrom identifier.

GitSite uses wavedrom to render digital timing diagrams. Wavedrom is an open source, JavaScript-based library that makes it easy to render digital timing diagrams into SVG vector graphics.

```
```wavedrom
{ signal: [
 { name: "clk", wave: "p.....|..." },
 { name: "data", wave: "x.345x|=.x", data: ["head", "body", "tail", "data"]
 { name: "req", wave: "0.1..0|1.0" },
 {},
 { name: "ack", wave: "1.....|01." }
]}
```



You can specify the alignment by align=center .

☐ Tip

Use the wavedrom online editor to edit your digital timing digram.

#### **Create PDF**

GitSite has an excellent feature that can export the whole book to a single PDF file.

To create PDF you must run the site on your local computer:

```
$ gitsite-cli serve
```

To create a PDF based on a book, for example, <code>gitsite-guide</code>, just open the url <a href="http://localhost:3000/books/gitsite-guide/pdf">http://localhost:3000/books/gitsite-guide/pdf</a> in browser and PDF is generated on-the-fly.

You can download the generated PDF gitsite-guide.pdf here.

#### **Technical Details**

GitSite uses Puppeteer and pdf-lib to generate PDF from HTML. In general, there are 3 HTML pages which generated by gitsite-cli:

```
 The content page: /books/gitsite-guide/pdf.html;
 The front cover page: /books/gitsite-guide/pdf.front.html;
```

3. The back cover page: /books/gitsite-guide/pdf.back.html .

The URLs listed above are only available on local development mode. You can check the pages to preview PDF content.

Header and footer on every page can also be customized. Header and footer are defined in the following templates:

```
 Header template: pdf_header.html;
```

Footer template: pdf_footer.html .

# **Developer's Guide**

GitSite uses Nunjucks as the template engine, rendering Markdown documents in real time for local preview, and converting markdown documents to HTML files in build mode.

All themes are stored in the themes directory. You can install multiple themes, and the default theme is used by default. To specify a particular theme, you can configure it in site.yml:

```
site:
theme: default
```

Template files are required under a specific theme:

```
default

── blog.html ←─ for blog full page

── blog_content.html ←─ for blog content page

── book.html ←─ for book chapter page

── book_content.html ←─ for book chapter content page

── page.html ←─ for any single document page

── pdf.html ←─ for generate PDF content

── pdf_front.html ←─ for generate PDF front cover

── pdf_back.html ←─ for generate PDF back cover

── pdf_header.html ←─ for generate PDF header

── pdf_footer.html ←─ for generate PDF footer

── post-build.mjs ←─ (optional) auto executed after build

── pre-build.mjs ←─ (optional) auto executed before build

── static ←─ (optional) store static files
```

Nunjucks template engine enables the inheritance and referencing of other templates within a single template. This feature proves advantageous for reusing components, allowing for the extraction of common parts such as header and footer.

#### Create a new theme

To create a new theme, the best way is copying the default theme and rename it, then update the theme setting in site.yml . This allows you change the theme progressively.

Themes are version controlled with source in the same repo.



# GitSite's Guide

How to use GitSite.

Crypto Michael

Website: https://gitsite.org/books/gitsite-guide/

Version: 2025-05-25