

CMPSC 104 - Document Engineering Prof. Hang Zhao



jekyll

What is jekyll?

- Jekyll is a static site generator (ssg) that converts plain text into static websites and blogs.
- It uses simple, human-readable languages like **Markdown** to generate HTML.
- Jekyll integrates seamlessly with **GitHub Pages** for free hosting.

Why?

- Ideal for creating static websites without needing a database or server-side code.
- Easy to Use: we can use markdown only without knowledge about html, css or javascript.
- **Version Control Friendly**: works well with Git and GitHub, allowing developers to collaborate, track changes, and manage deployments efficiently.

Installation

Installing Ruby and RubyGems

- **Ruby**: Jekyll is built with Ruby, so you need it to run Jekyll and manage your static site.
- RubyGems:
 - Package manager of ruby that allows us to install, update, and maintain Ruby programs (called gems).
 - O We'll use it to install and manage Jekyll and its dependencies, such as Bundler

Installation for MacOS

- MacOS comes with Ruby and RubyGems pre-installed.
- Check the versions already available on your system. (run ruby v in terminal)

Installation for MacOS

If your Ruby version is too old (e.g., Ruby 2.x), proceed with the following steps to update Ruby.

- Check if Homebrew is Installed. (run brew v in terminal)
- If not installed, install Homebrew using:

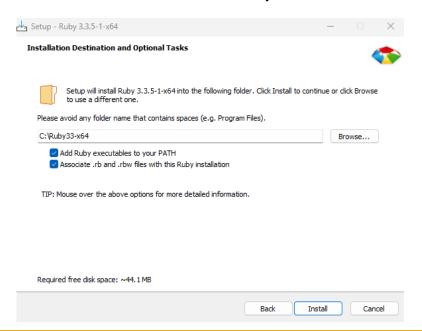
/bin/bash -c "\$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"

- Check if rbenv is Installed. (run rbenv v in terminal)
- If not installed, use Homebrew to install rbenv: *brew install rbenv*
- Install Ruby 3.3.5 with rbenv, run the following commands in terminal:
 - rbenv init
 - rbenv install 3.3.5
 - rbenv global 3.3.5
 - ruby-v
- Install Jekyll and Bundler: gem install jekyll bundler

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Installation for Windows

Download and install Ruby +Devkit 3.3.5 Version: <u>Downloads (rubyinstaller.org)</u>



Run 'ridk install' to install MSYS2 and development toolchain. MSYS2 is required to install gems with C extensions.

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Installation for Windows: Setting Up MSYS2

After Ruby installation, it will prompt you to install MSYS2



MSYS2 64bit Setup

Completing the MSYS2 64bit Wizard

Click Finish to exit the MSYS2 64bit Wizard.

Run MSYS2 64bit now.

Fixing Ruby Installation Issues on Windows

Step 1: Uninstall the Incorrect Ruby Installation

- Navigate to Control Panel > Programs > Programs and Features.
- Look for Ruby +Devkit 3.3.5 in the list of installed programs.
- Right-click on Ruby and select Uninstall.
- Follow the prompts to fully remove Ruby from the system.

Step 2: Verify Ruby is Completely Removed: *ruby -v*

• If Ruby was removed, you should see an error message or no version number returned.

Installation for Windows

Install Jekyll and Bundler Gems:

After setting up Ruby and MSYS2, open cmd and run: gem install jekyll bundler

Create and Serve a Jekyll Site

Create a new Jekyll project:

- jekyll new my-awesome-site
- cd my-awesome-site
- bundle exec jekyll serve