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).
  - 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.
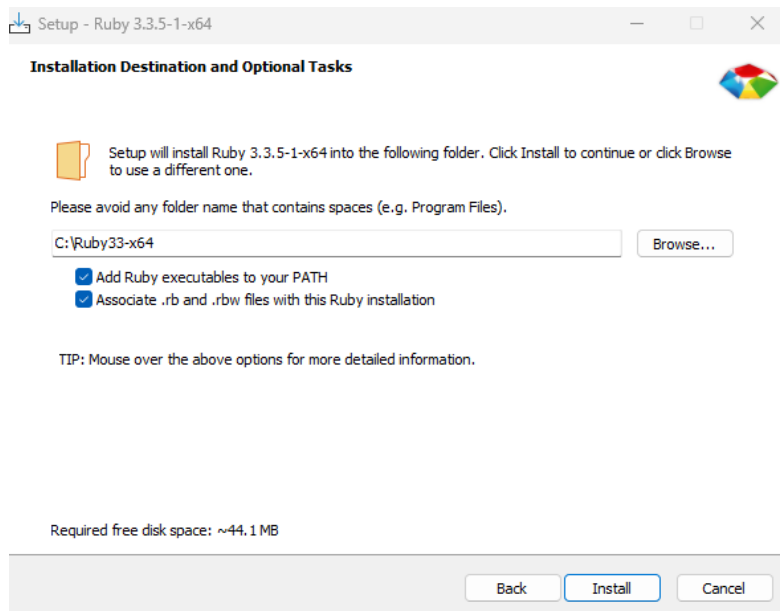- Check the versions already available on your system. (run *ruby −v* in terminal)

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**

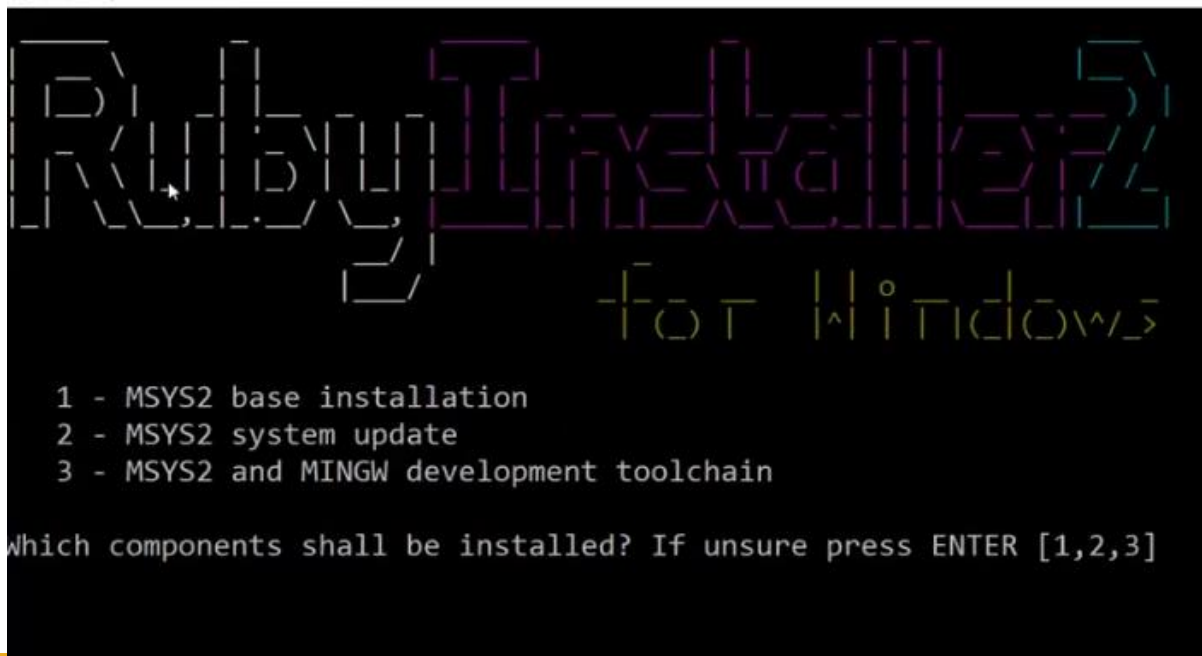- Install Jekyll and Bundler: **gem install jekyll bundler**

Installation for Windows

Download and install Ruby+Devkit 3.3.5 Version: [Downloads (rubyinstaller.org)](rubyinstaller.org)

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

Installation for Windows: Setting Up MSYS2

After Ruby installation, it will prompt you to install MSYS2

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