The fundamentals of technical writing | MUNI 2023

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Introduction to Asciidoctor

Asciidoctor is a fast text processor and publishing toolchain for converting AsciiDoc content to HTML5, DocBook and other formats. It is written in Ruby and packaged as a Ruby gem.

Installing Asciidoctor

Prerequisites

- Asciidoctor requires one of the following implementations of Ruby:
  - Ruby version 2.3 or later
  - JRuby version 9.1 or later
  - TruffleRuby version 20.2 or later
- Operating system requirements:
  - Ubuntu versions 18.04 LTS and 20.04 LTS
  - Fedora version 33 or later
  - macOS Mojave, Catalina, and Big Sur
    - Have Homebrew or MacPorts installed
  - Microsoft Windows 10

Procedure

Use your operating system package manager to install Asciidoctor:

- Install on Linux
- Install on macOS
- Install Windows

Linux operating system

1. Use Linux package manager to install Asciidoctor:
   a. On Debian-based distributions such as Ubuntu, use APT to install Asciidoctor.

```
sudo apt-get install -y asciidoctor
```

      i. Install package for converting AsciiDoc documents to PDF.

```
sudo apt-get install ruby-asciidoctor-pdf
```

   b. On RPM-based Linux distributions, such as Fedora, CentOS, and RHEL, use the DNF to install Asciidoctor.

```
sudo dnf install -y asciidoctor
```

i. Install package for converting AsciiDoc documents to PDF.

```
sudo dnf install rubygem-asciidoctor-pdf
```

macOs operating system

1. Use macOs package manager to install Asciidoctor:

   a. Use Homebrew to install Asciidoctor.

   ```
   brew install asciidoctor
   ```

   b. Use MacPorts to install Asciidoctor gem via the Asciidoctor port.

   ```
   sudo port install asciidoctor
   ```

2. Install `asciidoctor-pdf` package to convert AsciiDoc documents to PDF:

   ```
   gem install asciidoctor-pdf
   ```

Windows operating system

1. To install Asciidoctor on Windows operating system, follow the instructions on the official Asciidoctor project web page.
2. Use `gem` to install Asciidoctor.

   ```
   gem install asciidoctor
   ```

3. Install `asciidoctor-pdf` package to convert AsciiDoc documents to PDF.

   ```
   gem install asciidoctor-pdf
   ```

Verification

- Verify that Asciidoctor is available.

  ```
   asciidoctor --version
  ```

  You should see information about the Asciidoctor version and your Ruby environment printed in the terminal.

```
Asciidoctor 2.0.17 [https://asciidoctor.org]
Runtime Environment (ruby 3.1.3p185 (2022-11-24 revision 1a6b16756e) [x86_64-
linux]) (lc:UTF-8 fs:UTF-8 in:UTF-8 ex:UTF-8)
```

Next steps

1. Create and save an AsciiDoc document. You can copy the following example:

   sample.adoc

   ```
   == Writing in AsciiDoc

   You can write an AsciiDoc document using any text editor.
   We recommend selecting an editor that supports syntax highlighting for AsciiDoc.
   The color brings contrast to the text, making it easier to read.
   The highlighting also confirms when you have entered the correct syntax for an
   inline or block element.

   For more syntax examples see
   link:https://docs.asciidoctor.org/asciidoc/latest/syntax-quick-reference/[AsciiDoc
   Syntax Quick Reference].

   IMPORTANT: Save the file with a file extension of `.adoc`.
   ```

2. From the directory that contains your AsciiDoc document, run the following command.

   ```
   asciidoctor sample.adoc
   ```

3. List files in the current directory.
4. Open the `sample.html` in your web browser.

Additional resources

- Asciidoctor Docs, Install and Update
- Asciidoctor Errors and Warnings
- AsciiDoc Writer's Guide
- AsciiDoc Syntax Quick Reference

Git installation

1. Navigate to the Install Git guide.
2. Follow the steps to install Git according to the operating system you are using.

Configuring Git

Configure Git in command line interface with the following steps:

1. Set your Git user name:

```
$ git config --global user.name "your name"
```

2. Set your Git user e-mail:

```
$ git config --global user.email "your email"
```

Verification steps

1. Ensure that your Git user name and email are set:

```
$ git config --get-regexp user
user.name John Smith
user.email john.smith@example.com
```

Additional resources

- Git Documentation

Creating a pull request

Create a pull request to get your content reviewed and merged to the repository.

Prerequisites

- Add SSH key to your Github account.
- Fork and clone the technical-writing-course-brno repository.
- Have your AsciiDoc content ready.

Creating a pull request

This video demonstrates the basic workflow of submitting a pull request. The video includes Linux commands that might not work on other operating systems.

► Basic-git-workflow.webm *(video)*

Procedure

1. Navigate to the directory with your AsciiDoc files.
2. Use Asciidoctor to build your content locally:

```
asciidoctor index.adoc
```

3. Open the adoc.html file using any web browser and verify that your document was converted successfully.
4. Check the status of your Git working directory:

```
git status
```

5. Add new and changed files to the Git staging are:

```
git add <file-name.adoc> <image.adoc>
```

6. Create a commit:

```
git commit
```

   Enter your commit message in a text editor. You can also use a shortcut command `git commit -m "<your-commit-message>"`.

7. Push your changes to the base repository:

```
git push origin <branch-name>
```

8. Follow the URL from your terminal to create a pull request on Github.
9. Type a title and description for your pull request.
10. In the description, tag the names of the teachers to notify them you have completed your homework: @pmkovar @ragevou.
11. Click **Create Pull Request**.

Additional resources

- Learn Git Branching
- Git Cheat Sheet

Additional resources

- Information for MUNI students - spring 2023
- README.md
- Lecture slides
- Student’s homework projects