

Elixir runs on the Erlang VM, known for creating low-latency, distributed, and fault-tolerant systems. These capabilities and Elixir tooling allow developers to be productive in several domains, such as web development, embedded software, machine learning, data pipelines, and multimedia processing, across a wide range of industries. Here is a peek:

1. Preparation for the Workshop

| TODO |
|--------------------------------------------------------------------------------------|
| ✓ register for the workshop |
| ✓ join the WhatsApp group |
| ☐ install Elixir (and Erlang) on your computer |
| make sure your Text Editor of choice is installed and configured to your liking |
| ☐ install docker (and docker-compose) on your computer (might be useful to configure |
| databases and other accessories) |
| (optional) install extensions for Elixir/Phoenix in your editor |

2. Installation of Elixir

The quickest way to install Elixir is through install scripts, operating system package manager, or using one of the available version managers.

2.1. Version Managers

There are many tools that allow developers to install and manage multiple Erlang and Elixir versions. They are useful if you have multiple projects running on different Elixir or Erlang versions, can't install Erlang or Elixir as mentioned above or if the version provided by your package manager is outdated.

- asdf The Multiple Runtime Version Manager
- mise The front-end for your dev env

2.2. Install Scripts

Elixir and Erlang/OTP can be quickly installed for macOS, Windows, or Ubuntu using an install.sh/install.bat script.

If you are using bash (macOS/Ubuntu/Windows), run:

```
curl -fsSO https://elixir-lang.org/install.sh bash sh install.sh elixir@1.18.3 otp@27.2.3 installs_dir=$HOME/.elixir-install/installs export PATH=$installs_dir/otp/27.2.3/bin:$PATH export PATH=$installs_dir/elixir/1.18.3-otp-27/bin:$PATH iex
```

If you are using PowerShell (Windows), run:

```
curl.exe -fsSO https://elixir-lang.org/install.bat
.\install.bat elixir@1.18.3 otp@27.2.3
$installs_dir = "$env:USERPROFILE\elixir-install\installs"
$env:PATH = "$installs_dir\otp\27.2.3\bin;$env:PATH"
$env:PATH = "$installs_dir\elixir\1.18.3-otp-27\bin;$env:PATH"
iex.bat
```

Use install.sh --help or install.bat --help to learn more about available arguments and options.

It is highly recommended to add Elixir's bin path to your \$PATH environment variable to ease development.

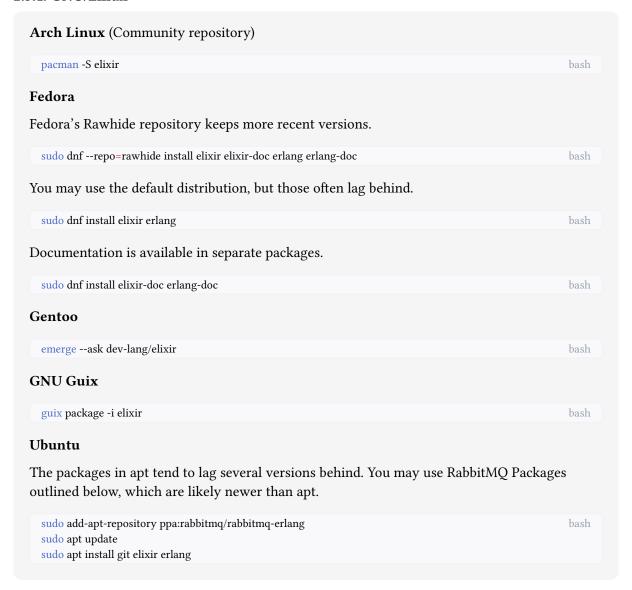
On Windows, there are instructions for different versions explaining the process.

On Unix systems, you need to find your shell profile file, and then add to the end of this file the following line reflecting the path to your Elixir installation:

export PATH="\$PATH:/path/to/elixir/bin" bash

2.3. System Package Manager

2.3.1. GNU/Linux



2.3.2. Windows



2.3.3. macOS



2.3.4. BSD



3. Text Editors

Some of the most popular text editors for Elixir development are:

- Visual Studio Code
- Sublime Text
- Neovim
- Emacs

All these editors are configurable, so don't be afraid to tweak them to your liking.



4. Questions

If you have any questions, feel free to ask in the WhatsApp group. The instructor or your colleagues will be happy to help you out.