

Unix Environment Setup

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To better follow the Formal Languages and Compilers laboratory lessons, you can optionally prepare a Unix environment on your personal computer. The environment will be composed of a Unix-based terminal with the following tools installed: `gcc` (or `clang`), `make`, `flex` and `bison`. The recommended options for the setup depend on your Operating System, and are the following:

Windows

1. Install Ubuntu via Windows Subsystem for Linux

On an up-to-date Windows 10 system, you can install Ubuntu through WSL from the Microsoft Store.

Proceed in following the instructions for linux.

macOS

A clang-based toolchain with the required tools can be installed by running the following command on a terminal:

```
xcode-select --install
```

Linux

The instructions for installing the required tools depend on your Linux distribution; on Ubuntu you can run:

```
sudo apt update && sudo apt install -y build-essential flex bison
```

Setup Validation

To validate your Unix setup, you can run the following commands, ensuring that none of them returns `not found`.

```
which gcc
```

```
which make
```

```
which flex
```

```
which bison
```

Text Editors

Programming will require a code-oriented text editor, the following editors are supported by all the aforementioned Operating Systems and open source:

1. Atom

2. Visual Studio Code
3. Neovim
4. Emacs