# **Tooling** Digital areer Institute



# Goal of the Submodule

The goal of this submodule is to help the learners install and run Python 3, install VSCode and run Python code on their machines. By the end of this submodule, the learners should be able:

- install and run Python 3 locally
- understand IDEs
- download VSCode
- edit and run Python code on VSCode
- add plugins of VSCode



### Topics

- Python installation
- IDE
- IDE Plugins



#### Glossary



Term	Definition
IDE	Integrated Development Environment

### Python 3 Installation



#### pyenv

pyenv lets you easily switch between multiple versions of Python per user and per project.

#### Install pyenv



brew install pyenv



2. echo 'eval "\$(pyenv init -)"' >> ~/.bash\_profile | ~/.zshrc



3. source ~/.bash\_profile

#### Install python



1. pyenv list

2. pyenv install 3.9.0



3. pyenv global 3.9.0

## IDE-Integrated Development Environment

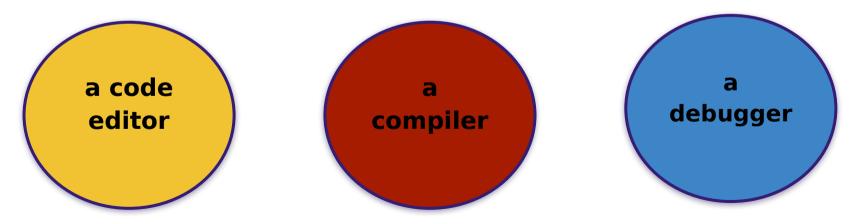


#### What is an IDE in Programming?



#### An IDE is:

- an application that facilitates application development.
- a piece of software that acts as a text editor, debugger, and compiler all in one.
- designed to make coding easier for developers and provides a central interface featuring tools like:



#### IDE



# **Code Editor**

clean.

#### Compiler

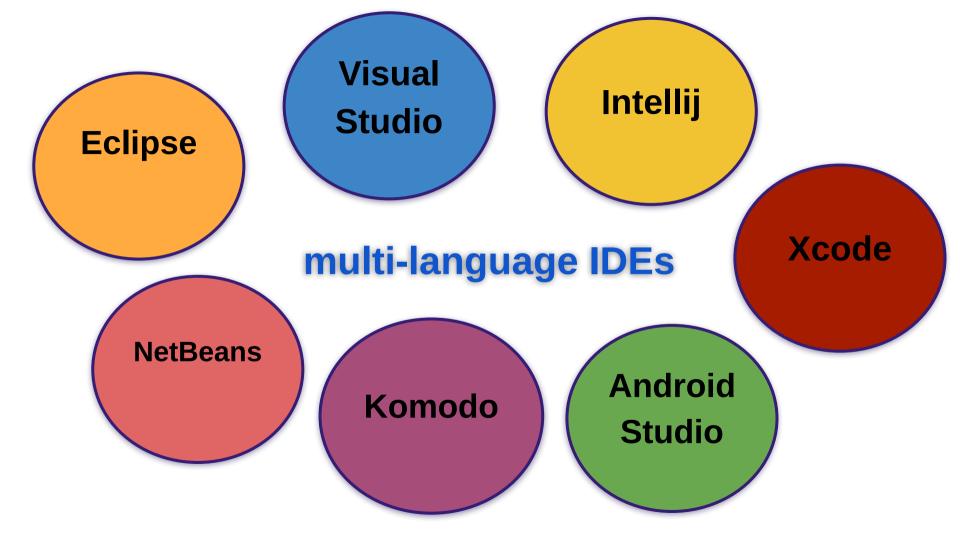
A compiler that transforms code written by a human into machine-readable form.

A code editor that's designed to help us write and edit

our code. It also helps us make it more readable and

#### **Debugger**

A debugger that helps us eliminate errors from our programs so that our code executes and performs the way it should. This feature provides tools to help us examine our code.



#### Features of Multi-lang IDEs



#### Intellisense

# **Smart code editing**

#### **Debugger**

# **Extension/plugin** manager

**Version Control** 

provide code completion, quick info, and member lists on a project.

indent code lines, match words and brackets, and also highlight keywords.

powerful debugging features and along with a graphical debugger and breakpoints.code written by a human into machine-readable form.

add new extensions/plugins to extend your IDE's functionality.

offer support for various version control systems like Git, Subversion, Mercurial, CVS and so on.

#### **VSC**ode



1. Go to this website



2. Download for Mac OS X



3. Double-click on VSCode-osx. zip to expand the contents



4. Drag Visual Studio Code.app to the Applications folder, making it available in the Launchpad.

5. Add VS Code to your Dock by right-clicking on the icon and choosing Options, Keep in Dock.

# Self Study



Topic: VSCode Plugins



# Documentation



#### Resources



- Install brew
- Install Python with pyenv
- Install Python 3
- What is an IDE in Programming?
- Download VSCode
- Install VSCode on macOS

# THANK YOU

Contact Details
DCI Digital Career Institute gGmbH

