

Module 4.2

Introduction



Teaching Sessions

- Python brushup and Docker
- Virtualisering (Azure)
- Python, Web Service API
- Distribuerede systemer
- Machine Learning
- AI - (Deep Learning)
- IT architecture & Microservice
- IT security



GitHub Pages - 4.2 website

tuehellsternkea.github.io/study

- Slides
- Guides - text and video
- Extra material
- Files
- Ekstra links

CODING

clouD

AZURE

The cloud for space stations, startups, and everything in between.



Azure Database for
MySQL servers



Azure Workbooks



Virtual machines



IoT Hub



App Services

GitHub

Git is the most popular distributed version control system in the world.

Linus Torvalds, the creator of the Linux kernel, built this tool back in 2005.

<https://github.com>



gitHub

GitHub Desktop

GitHub Desktop simplifies your development workflow

<https://desktop.github.com>



The screenshot shows the GitHub Desktop application window. At the top, it says "GitHub Desktop". Below that, a large text block reads: "Matters instead of fighting with Git. Whether you're new to Git or GitHub Desktop simplifies your development workflow." To the right of this text is a purple button with white text that says "Download for Windows (64bit)". Below the download button, there is smaller text: "Download for macOS or Windows (msi)" and "By downloading, you agree to the Open Source Applications Terms." The main area of the app shows a pull request titled "Add event handler to dropdown component" with status "Current branch esc-pr #3972 ✓". It also shows a commit by "iAmWillShepherd and Markus Olsson committed c79e71c 1 changed file". The bottom of the screen shows the GitHub logo and the text "Co-Authored-By: Markus Olsson <niik@users.noreply.github.com>".

Visual Studio Code

Visual Studio Code is an open-source cross-platform code editor developed by Microsoft.

It has a built-in debugging support, embedded Git control, syntax highlighting, code completion, integrated terminal, code refactoring and snippets.

<https://code.visualstudio.com>

Go Run Terminal Help

Welcome - Visual Studio Co

VisualStudioCode.md

Welcome

Introduction

Customize

repository...

Tools and languages

Install support for JavaScript

Settings and keybindings

Install the settings and keybo

Color theme

Make the editor and your co

Learn

atsheet

Find and run all commands

Rapidly access and search co

Interface overview

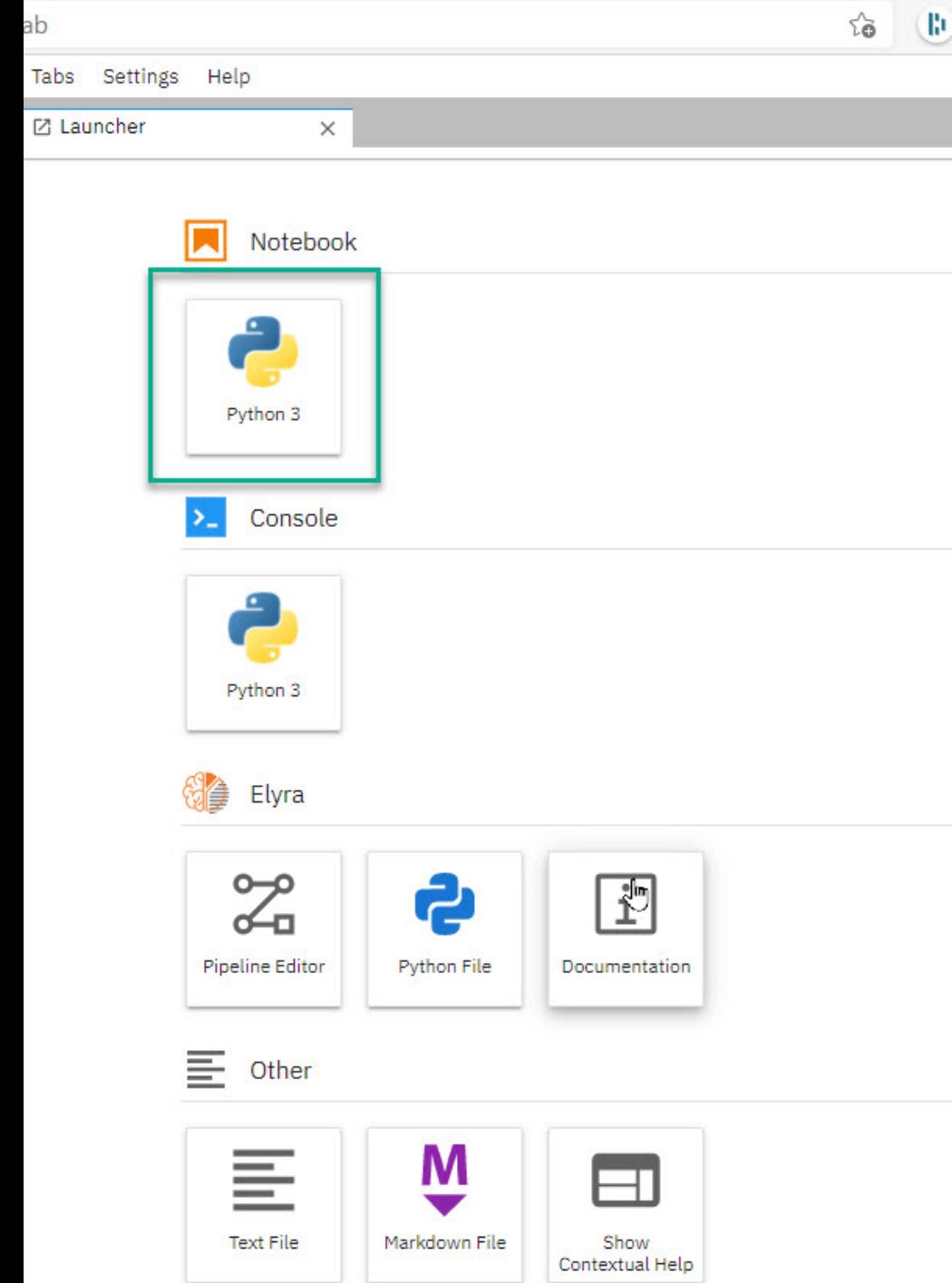
Get a visual overlay highlight

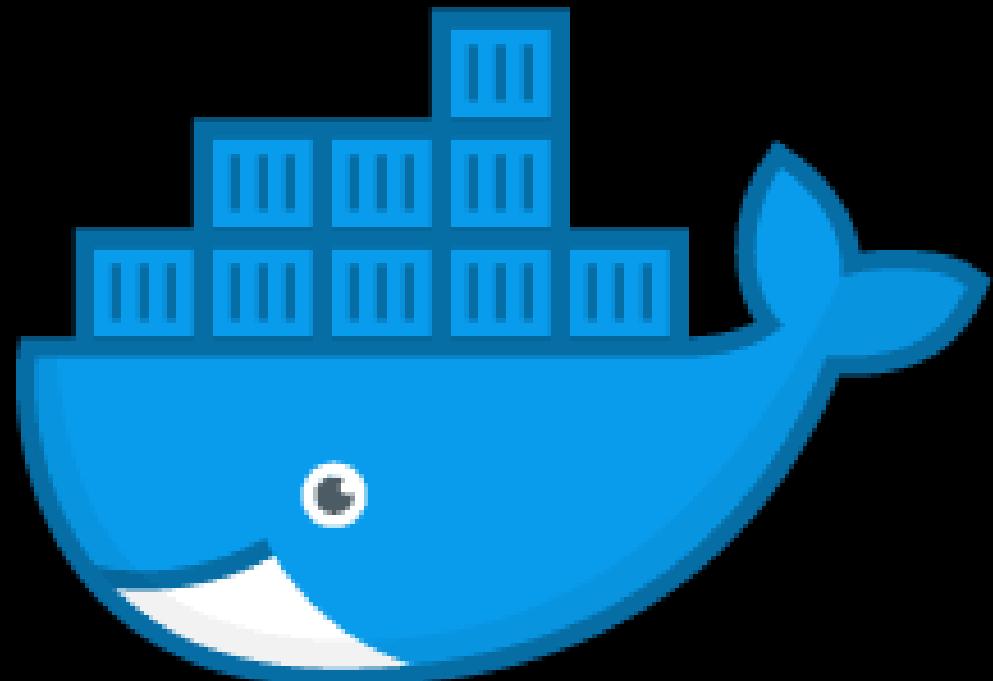
/ markdown | ✓ VisualStudioCode.md

Jupyter Lab

JupyterLab is the latest web-based interactive development environment for notebooks, code, and data. Its flexible interface allows users to configure and arrange workflows in data science, scientific computing, computational journalism, and machine learning.

<https://jupyter.org>





docker

MySQL

MySQL is an open-source relational database management system (*RDBMS*).

Its name is a combination of *My*, the name of co-founder Michael Widenius's daughter, and *SQL*, the abbreviation for Structured Query Language.

