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Pranav on Data Science (/)

C++ For Jupyter Notebook

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When I'm experimenting with models I typically prefer to have my math and code in the same place. Python is the language of choice for data scientists as it integrates seamlessly with Jupyter Notebook (<https://jupyter.org/>) allowing for carefully placed analysis and explanations alongside code modules. However, recently I've been working on integrating a model into a piece of software where low latency is vital. C++ was the obvious answer in terms of language choice. I began looking for an interactive computing solution in C++ and eventually came across Xeus (<https://github.com/jupyter-xeus/xeus>); a C++ kernel for Jupyter Notebook (<https://jupyter.org/>) and Xeus-Cling (<https://github.com/jupyter-xeus/xeus-cling>); a C++ interpreter. Together, these two frameworks allow for seamless interactive computing.

Requirements:

- Mac OS/Linux/(Windows is still experimental at the time of this article)
- Conda package manager

Step 1: Install Conda

- Download the conda (<https://www.anaconda.com/products/individual>) package manager and install the appropriate version for your operating system

Step 2: Setup

Before you install the modules, you want to set up your own environment to prevent conflicts with your default setup. Open up a terminal and type 'conda activate'. Enter the following commands

```
conda create -n cling
```

Next, you want to install cling to your particular environment.

```
conda install xeus-cling -c conda-forge
```

Finally, install Xeus:

```
conda install xeus -c conda-forge
```

Step 3: Open A Notebook

Open a shell and switch to your cling environment.

```
conda activate cling
```

Open a notebook

```
jupyter notebook
```

You should now see the option to create a C++ notebook in Jupyter.



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My name is Pranav Ahluwalia. I am a Data Scientist and avid poker player
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