

# Scientific Programming with Python

# What to expect?

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- Introduction to Python 3: variables, functions, loops, conditions, ... (today)
- OOP, modules, numpy, matplotlib, ... (Tue, Wed)
- Pytorch, Tensorflow (Thu, Fri)
- 5 days, 9:00–12:00 and 13:00–15:00

# What is our goal?

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- First Python course after years of Python usage in courses and research
- “Hands-on” experience using basic Python + packages for scientific problems
- Exercises and mini projects throughout the course

# How will it end?

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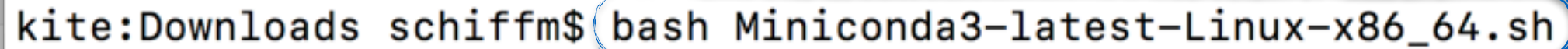
- Steady and active participation is expected
- Individual project ➡ Friday afternoon
- Individual presentation + quiz ➡ next week

# How to begin?

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- **Install Python 3.6 via the miniconda installer:**  
`https://conda.io/miniconda.html`
- **Local installation, no root required, easy to remove and maintain, binary packages**
- **Course material available on Github:**  
`https://github.com/cwehmeyer/scipro`

## Miniconda

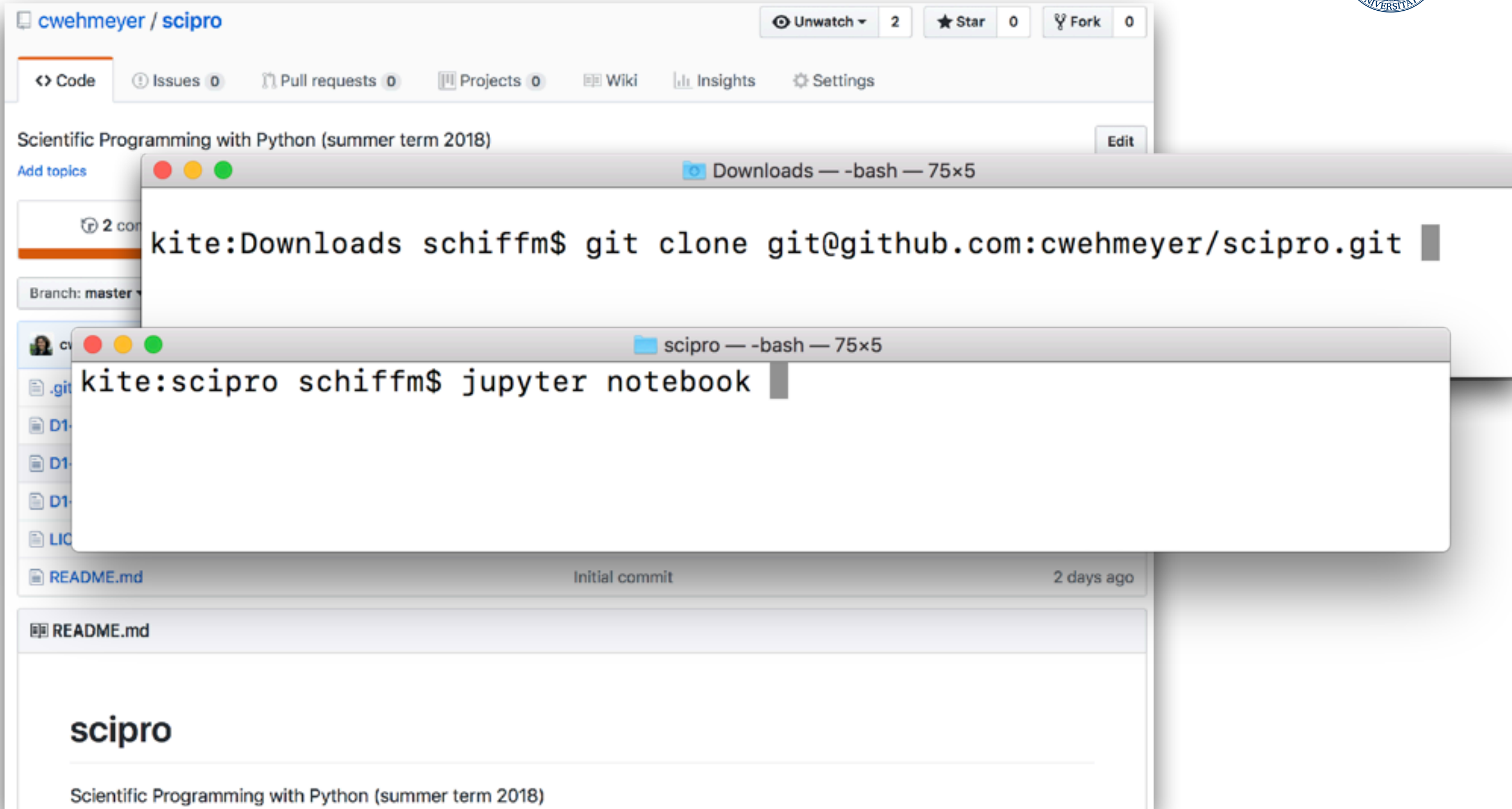


```
kite:Downloads schiffm$ bash Miniconda3-latest-Linux-x86_64.sh
```

```
kite:Downloads schiffm$ conda config --add channels conda-forge
```

```
kite:Downloads schiffm$ conda update conda
```

```
kite:Downloads schiffm$ conda install numpy matplotlib jupyter notebook
```



The screenshot shows a GitHub repository page for 'cwehmeyer / scipro' and two terminal windows. The repository page includes navigation tabs (Code, Issues, Pull requests, Projects, Wiki, Insights, Settings), repository details (Scientific Programming with Python (summer term 2018)), and a file list (README.md, Initial commit, 2 days ago). The top terminal window shows the command to clone the repository: `git clone git@github.com:cwehmeyer/scipro.git`. The bottom terminal window shows the command to start a Jupyter notebook: `jupyter notebook`.

cwehmeyer / scipro

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Scientific Programming with Python (summer term 2018) Edit

Add topics

2 commits

Branch: master

cv

Downloads — -bash — 75x5

```
kite:Downloads schiffm$ git clone git@github.com:cwehmeyer/scipro.git
```

scipro — -bash — 75x5

```
kite:scipro schiffm$ jupyter notebook
```

README.md Initial commit 2 days ago

README.md

# scipro

Scientific Programming with Python (summer term 2018)