

Software Carpentry workshop



**Research Computing Center
University of Chicago**

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<http://tinyurl.com/ycke9v>



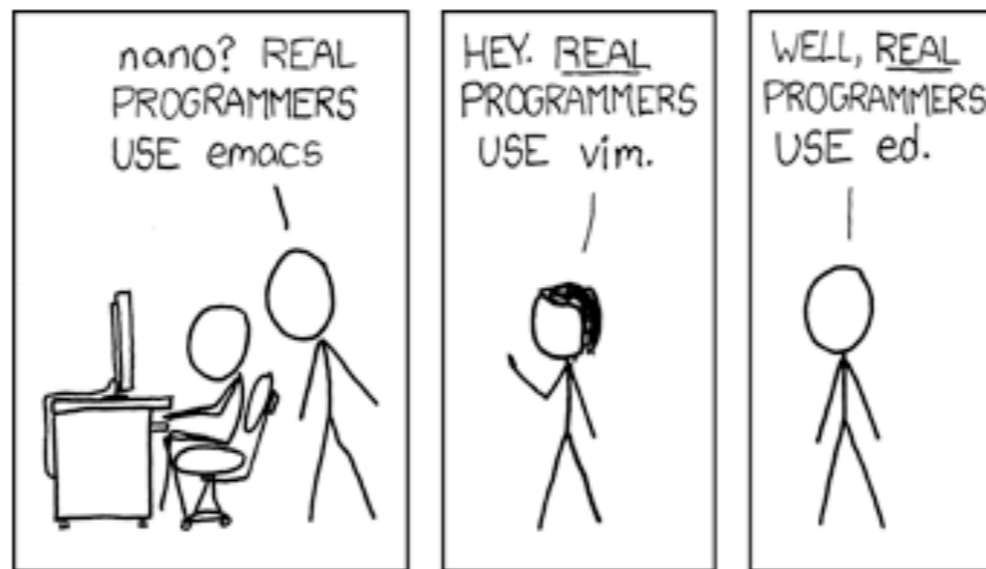


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Getting started...

- Pre-workshop survey.
- Setup:
 - Projector
 - Wifi
 - Power outlets
 - Text editor
 - Python
 - *Windows difficulties*
- RCC cluster access:
 - Request RCC account
 - Yubikeys
- Coffee, snacks.
- Breaks, stretches.
- Etherpad.
 - *Introductions*
- Introduce yourself to your neighbors.
- Ask us questions
 - *Keyboard shortcuts*
- Pace, experience levels.
- Post-workshop survey.
- Feedback.

There is no best tool—use
whatever works for you.



Workshop schedule

Day 1

- The Unix shell (a.m.)
— *Yuxing Peng*
- Programming in Python (p.m.)
— *Hossein Pourreza*

Day 2

- High-performance computing (HPC) using Python (a.m.)
— *Jonathan Skone*
- Version control using Git (p.m.)
— *Peter Carbonetto*

The Software Carpentry approach

1. Learning through “live coding.”
 - Especially learning from our mistakes!
2. Hands on—*using your own computer.*
3. Lateral knowledge transfer.
4. Collaborative note-taking (Etherpad).



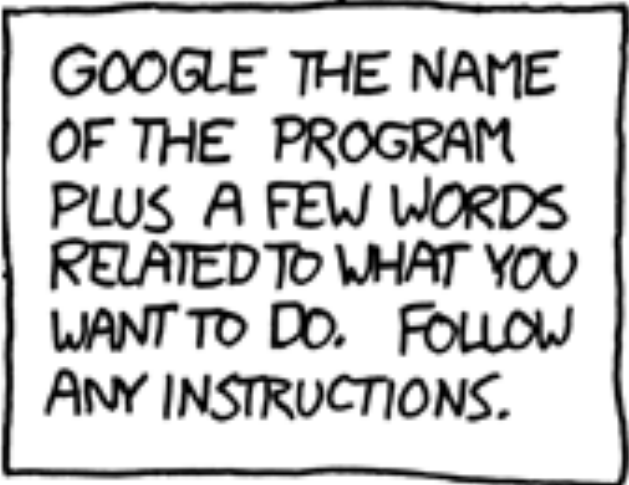
Workshop aims

1. Improve comfort level in basic computing skills.
2. Introduce tools & terminology so that you can explore more on your own.
3. Help develop an *effective computing environment*.
 - Including a *high-performance* computing (HPC) environment.
4. Keep you engaged!

When you get stuck

1. Talk to your neighbors.
2. Ask for help (Yellow Stickies).
3. Pair up with your neighbor, and wait for the break.

4.



GOOGLE THE NAME
OF THE PROGRAM
PLUS A FEW WORDS
RELATED TO WHAT YOU
WANT TO DO. FOLLOW
ANY INSTRUCTIONS.

Other recommended resources

- **Software Carpentry**
<http://software-carpentry.org/lessons>
- **Data Carpentry**
<http://www.datacarpentry.org/lessons>
- **Practical Computing for Biologists**
<http://practicalcomputing.org>
- **Effective Computation in Physics**
<http://physics.codes>