

BUILDING HPC CARPENTRY

Applying the Software and Data Carpentry model to training needs in large scale research computing

Agenda and links: <https://hpc-uk.github.io/sc17-hpccarpentry-bof/>

SWC/DC Features

Finding Gaps

Skills

Community

Instruction

- Researchers writing programs without any training in useful “industry-standard” best practices
- Researchers struggling with quantity of data and how to organize, analyze, and otherwise manage it

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SWC/DC Features

Finding Gaps

Skills

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Instruction

- **research-focused**
 - basic “toolbox” skills for everyday use
 - **best practices**
- modular code, using data structures, reproducibility
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SWC/DC Features

Finding Gaps

Skills

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Instruction

Community developed, open-source lessons

Workshops taught by peers

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SWC/DC Features

Finding Gaps

Skills

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Instruction

- Hands-on and interactive
 - Incorporate feedback
- Research-based instructor training

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BOF Agenda

- Go through these features, discuss, and share ideas.
- Specifically:
 - Target Audience
 - Learning Outcomes + Lessons
 - Community Needs

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AUDIENCE

Learner Profiles

- Tool from the development world (user profiles)
- Profile elements
 - the person's general background
 - the problem they face
 - how they feel about the subject
 - how the course will help them

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Activity

- On your own, brainstorm the characteristics of the novice HPC user from your perspective.
- Include skills (e.g. *I am not comfortable with the command line*), mindset (e.g. *I am intimidated learning about HPC*), and desired goals. You can produce multiple, distinct profiles if you wish.
- Add your profile to your group's Google Doc.

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In your group

- Compare profiles. What common characteristics emerge? Discuss and put into a list ordered by your collective evaluation of importance.
- Look at the profile that was handed out. Does it align or differ with your individual profile, or the list of characteristics from your group?

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