The Carpentries in SSH

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Outline

1. Digitization or Transformation
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   - Basic computing skills

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Digitization or Transformation
Data deluge
Basic computing skills
The Carpentries Organization
From humanities computing
Features
“The fact is, it’s hard for scientists to do the cool things their colleagues are excited about without basic computing skills, and impossible for them to know what other new things are possible. Our ambition is to change that: not just to make scientists more productive today, but to allow them to be part of the changes that are transforming science in front of our eyes.”

Greg Wilson 2016, Software Carpentry Foundation
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**CARPENTRIES introduction**

- non-profit organization (1996-2012) that promotes basic computing skills for research through short intensive workshops financed through memberships, workshops, and grants

- offers workshops in popular programming languages, shell scripting, version control, and - increasingly basic data science skills have also been included → Software*, Data,& Library Carpentry build tools

- teaching material is developed by a community of instructors (~1000)
SOFTWARE CARPENTRY as a humanist

- training resources invested with multiple ‘generations’ of instructors’ experiences
- common standard (education and development) for teaching basic computing skills
- community treatment against expert blind spot
- course material is primarily focused on scientific computing
SOFTWARE CARPENTRY|practice

- feedback and lateral knowledge transfer
- *live coding*
- meet learners on own ground
- pair programming - diversity (code of conduct)
- open lessons
- industry standards tools
  ...
- lessons
if questions:
    try:
        answer()
    except RunTimeError:
        pass
else:
    print "thank you"