The Carpentries in SSH

Kristoffer L Nielbo
`knielbo@sdu.dk`
`knielbo.github.io`

Dept. of History & SDU eScience Center
University of Southern Denmark

January 31, 2019

Outline

The Carpentries in SSH

Kristoffer L Nielbo
knielbo@sdu.dk
knielbo.github.io

Digitization or
Transformation
Data deluge
Basic computing skills

The Carpentries
Organization
From humanities
computing
Features

SDU ⚘

The Carpentries in SSH

Kristoffer L Nielbo
knielbo@sdu.dk
knielbo.github.io

SDU

The Carpentries in
SSH

Kristoffer L Nielbo
knielbo@sdu.dk
knielbo.github.io

Digitization or
Transformation
Data deluge
Basic computing skills
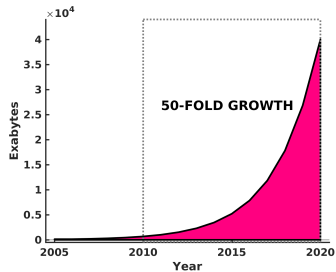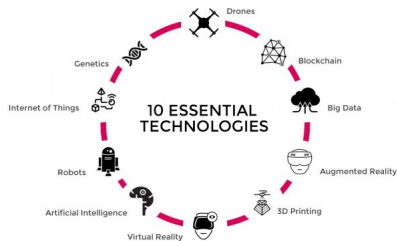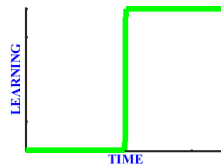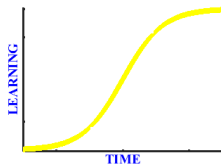
The Carpentries
Organization
From humanities
computing
Features

"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

SDU

The Carpentries in SSH

Kristoffer L Nielbo
knielbo@sdu.dk
knielbo.github.io

The Carpentries in
SSH

Kristoffer L Nielbo
knielbo@sdu.dk
knielbo.github.io

Digitization or
Transformation
Data deluge
Basic computing skills

The Carpentries
Organization
From humanities
computing
Features
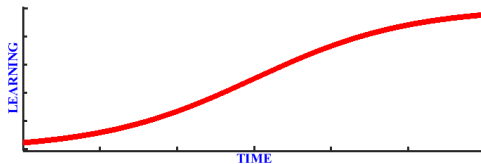
CARPENTRIES|introduction

———

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

- offers workshops in popular `programming languages`, `shell scripting`, `version control`, and - increasingly basic data science science skills have also

been included → Software*, Data,& Library Carpentry `build tools`

- teaching material is developed by a `community of instructors` ($\sim$ 1000)

SDU❧

The Carpentries in SSH

Kristoffer L Nielbo
knielbo@sdu.dk
knielbo.github.io

Digitization or
Transformation
Data deluge
Basic computing skills

The Carpentries
Organization
From humanities
computing
Features

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 matrial is primarily focused on `scientific computing`

SDU❦

The Carpentries in SSH

Kristoffer L Nielbo
knielbo@sdu.dk
knielbo.github.io

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`

SDU ⚘

The Carpentries in SSH

Kristoffer L Nielbo
knielbo@sdu.dk
knielbo.github.io
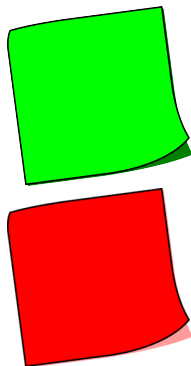
```
1  if questions:
2      try:
3          answer()
4      except RunTimeError:
5          pass
6      else:
7          print "thank you"
```

SDU