b UNIVERSITÄT BERN

CAS Applied Data Science

Ethics and best practices for scientific computing and data science

BEST PRACTICES

PD Dr. Sigve Haug, sigve.haug@math.unibe.ch

2019-06-11



^b UNIVERSITÄT BERN

PLOS BIOLOGY

Reflect on best practices for scientific computing based on article on Ilias

OPEN ORCESS Freely available online

Community Page

Best Practices for Scientific Computing

Greg Wilson¹*, D. A. Aruliah², C. Titus Brown³, Neil P. Chue Hong⁴, Matt Davis⁵, Richard T. Guy⁶[¤], Steven H. D. Haddock⁷, Kathryn D. Huff⁸, Ian M. Mitchell⁹, Mark D. Plumbley¹⁰, Ben Waugh¹¹, Ethan P. White¹², Paul Wilson¹³

1 Mozilla Foundation, Toronto, Ontario, Canada, 2 University of Ontario Institute of Technology, Oshawa, Ontario, Canada, 3 Michigan State University, East Lansing, Michigan. United States of America. 4 Software Sustainability Institute. Edinburgh. United Kingdom. 5 Space Telescope Science Institute. Baltimore. Marvland. United

Questions and Objectives

^b UNIVERSITÄT BERN

- What are best practices (in this article) ?
- Why are they considered as good or best?
- Give examples and or own experiences

Everyone gets acquainted with the article; when published, by whom, in which journal. Everyone reads the introduction and the conclusion.

Teams of two present two of the eight best practices. Every team has 20 minutes.

 $u^{\scriptscriptstyle b}$

Questions ? Enjoy !