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Supporting research software community through training

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The Software Sustainability Institute



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A national facility for cultivating better, more sustainable, research software to enable world-class research

- Software reaches boundaries in its development cycle that prevent improvement, growth and adoption
- Providing the expertise and services to negotiate to the next stage
- Developing the policy and tools to support the community developing and using research software



EPSRC

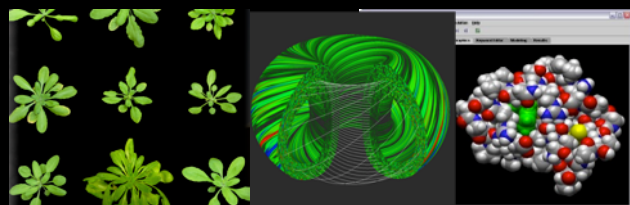
Pioneering research and skills

Supported by EPSRC Grant EP/H043160/1
+ EPSRC/ESRC/BBSRC grant EP/N006410/1



Software

Helping the community to develop software that meets the needs of reliable, reproducible, and reusable research



Training

Delivering essential software skills to researchers via CDTs, institutions & doctoral schools

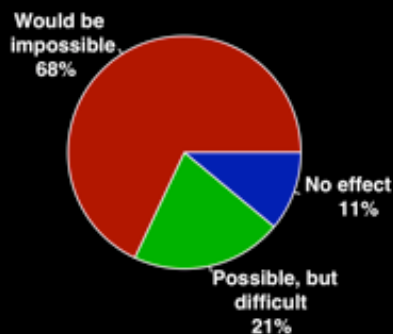
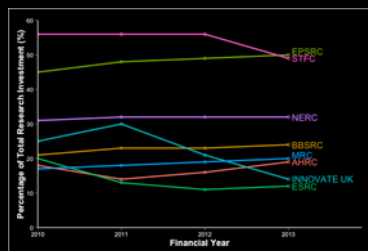


Outreach

Exploiting our platform to enable engagement, delivery & uptake

Collecting evidence on the community's software use & sharing with stakeholders

Bringing together the right people to understand and address topical issues



Policy

Community

Training focus



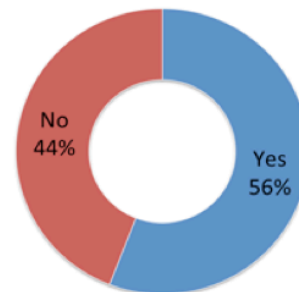
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Software development in research is common, training for skills in software development is not (yet).

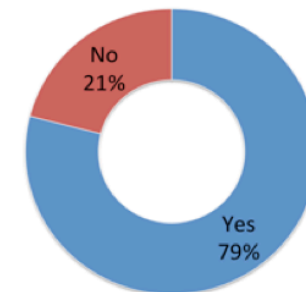
- Computational skills for researchers across domains
- Identifying needs & finding solutions
- Coordinating and administering training workshops
- Growing a pool of certified instructors and fostering community of practice
- Supporting UK projects in developing and delivering training activities



Do you develop your own research software?



If you develop software, have you received any training in software development?



Software and Data Carpentry



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- Long-term partnership with SWC/DC
- Administration and coordination of UK workshops
- Supporting adoption of SWC/DC training model in other training programmes
- International impact & influence
- Over 50 UK workshops since 2012



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Instructor Training



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- Educational pedagogy & SWC/DC specifics
- 60 certified instructors in the UK...
- ...more to be trained
- Included in SWC/DC partnerships
- Useful for anyone who teaches and develops training materials

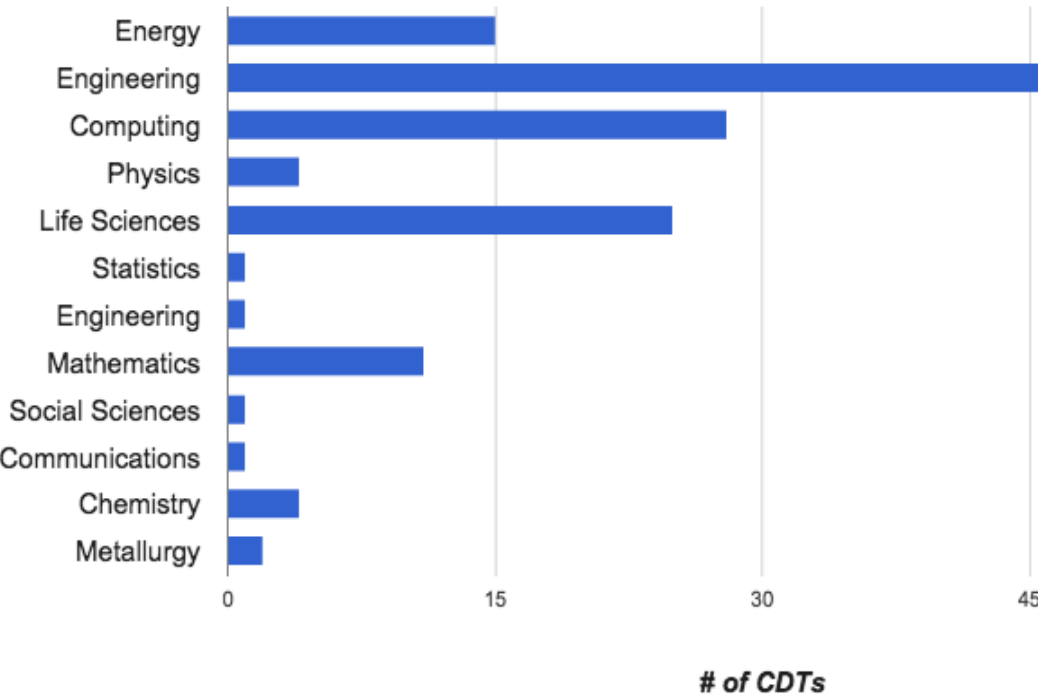


Centres for Doctoral Training



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EPSRC Centres for Doctoral Training by domain



- 4-year doctoral training programme
- cohorts of PhD students
- targeting a specific area of research
- transferable skills

117

EPSRC

Engineering and Physical Sciences Research Council

21+



14+



11+



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Arts & Humanities Research Council



Supporting training for CDTs



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- Helping CDTs develop the best strategy for teaching computational skills to the next generations of doctoral students
- Growing CDTs capacity to deliver training (SWC / DC Instructor Training)
- Exploring and categorizing the needs for training among CDTs



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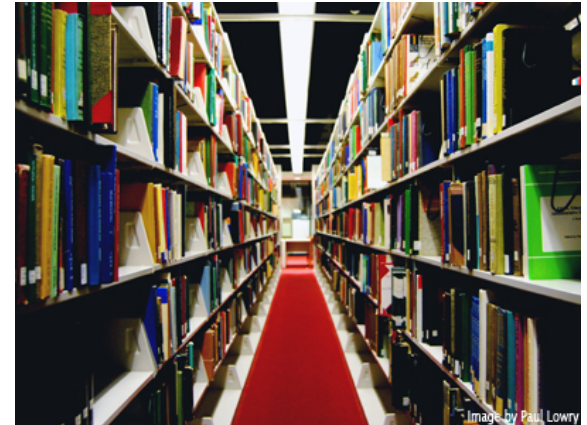


Resources and top tips



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- Sharing is caring
- Guides and Top Tips
 - Software development
 - Repositories and project infrastructure
 - Running workshops
 - Citing software
 - Data Handling
 - Community building and project management
- Advice on computational training for researchers



Thank you!



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Questions?

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