

## Culture Clash

### Scientific Motivations

- Scientists don't resist CE ideas, they just don't have time to implement them
- Funding system does not reward quality software or maintenance, only publication
- Lack of business model / incentive to make good software
- Startups hack together code and then improve it once they have a working product, whereas scientists publish the initial product and never go back to refining them

### Origins of Problem

- Field of CE now too big to know as a scientist, previously it was smaller and easier
- Open source community makes useful tools for CE people not researchers
- Realistic problems not taught in introductory CS classes

### Conclusions

- Mutual suspicion
- Lack of trust and funding
- Academia doesn't value multidisciplinary work
- Long term maintenance big problem with CSE codes
- Scientists don't value / have time for CE principles like TDD
- Scientists don't care about software as an end, instead want insights derived from it.

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