**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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