Robert Haines

Head of Research Software Engineering
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- From Research Associate
  - Writing code
  - Writing (some) papers

- To Software Engineer
  - Designing and building systems
  - Writing (fewer) papers

- To Research Software Engineer
  - Collaborating with researchers on projects
  - Writing papers

- To Head of Research Software Engineering
  - Managing expectations

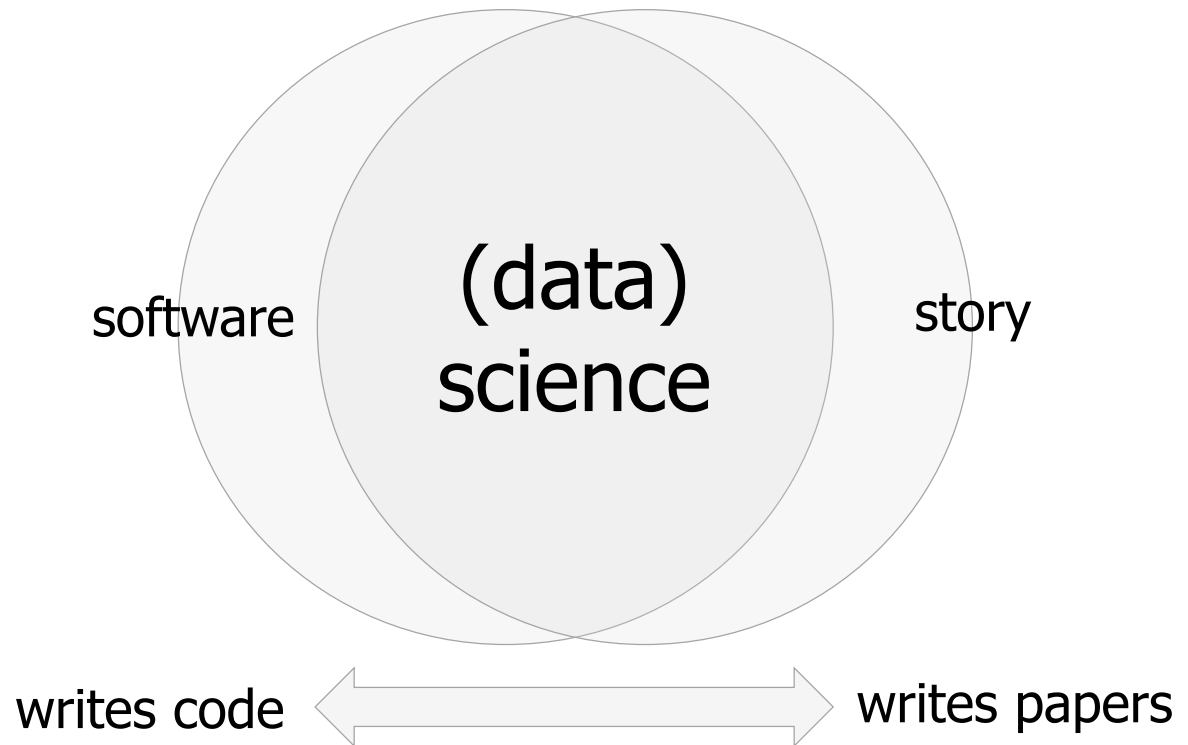https://xkcd.com/1425/ (CC-BY-NC 2.5)

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"*While some of us work on the software necessary to produce results, and others work on the surrounding story necessary to explain them, in team-based research we are all **scientists**"*

Jay, Haines, Vigo, Matentzoglu, Stevens
10.3897/rio.3.e13236

software   (data) science   story

writes code ⟷ writes papers

Can we answer these questions with a combination of RSE and DS:

- How do we translate between scientific theory and code?
- How do we properly test code derived from theory?