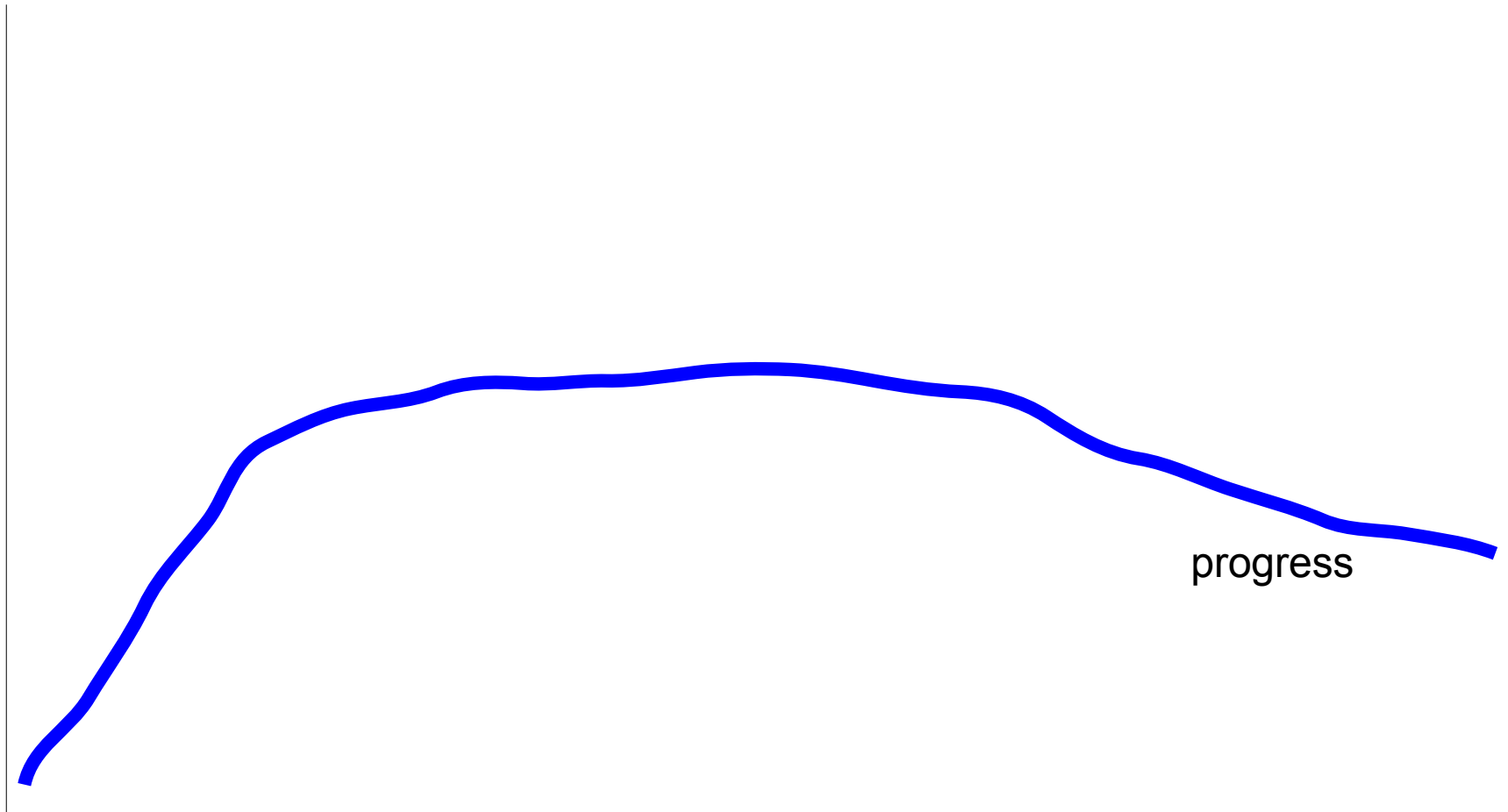# Introduction to the Course (2)

01219116 / 01219117
Programming 2
Spring Semester 2018

Skills
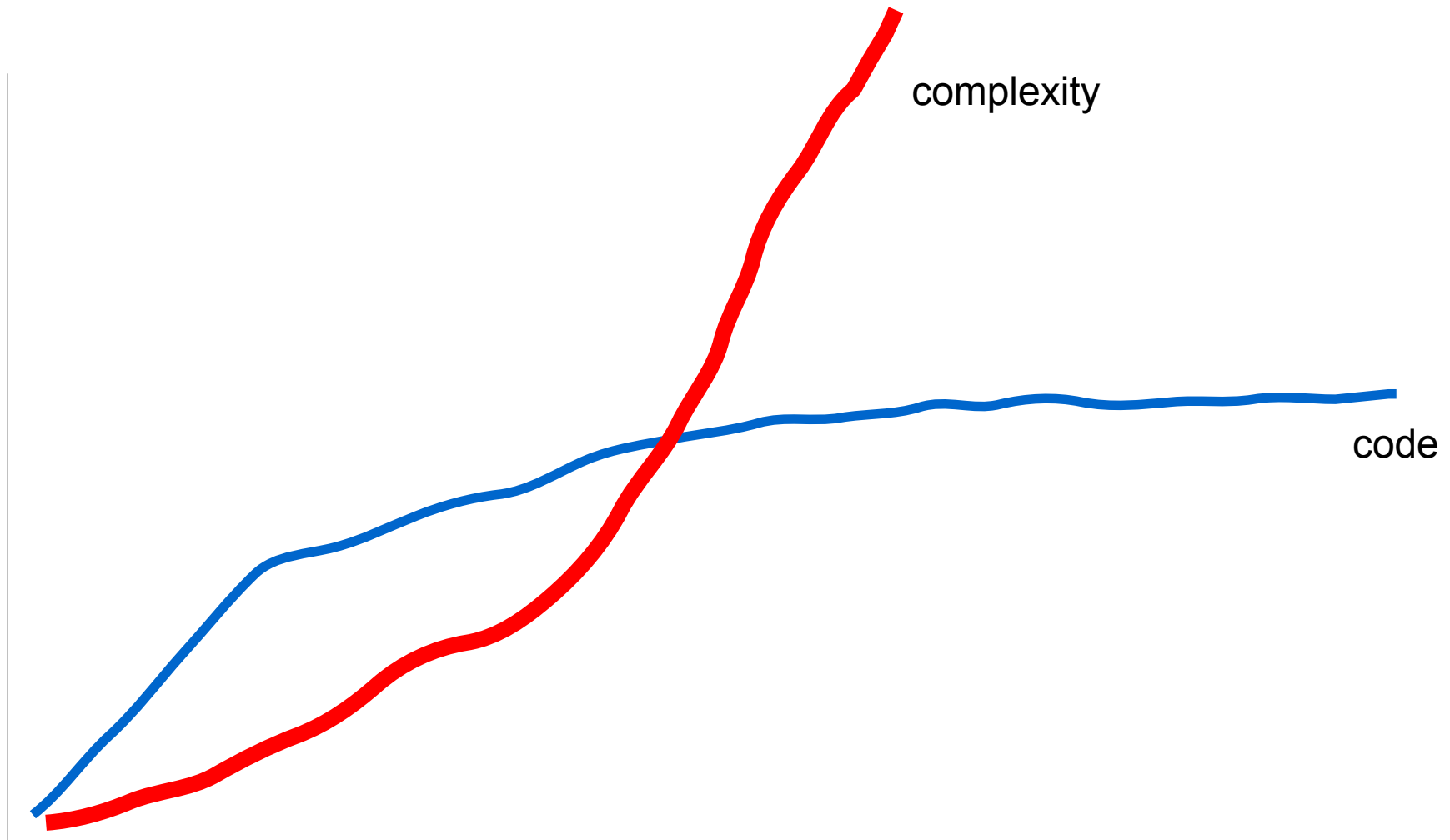
- Basic programming skills
  - Coding
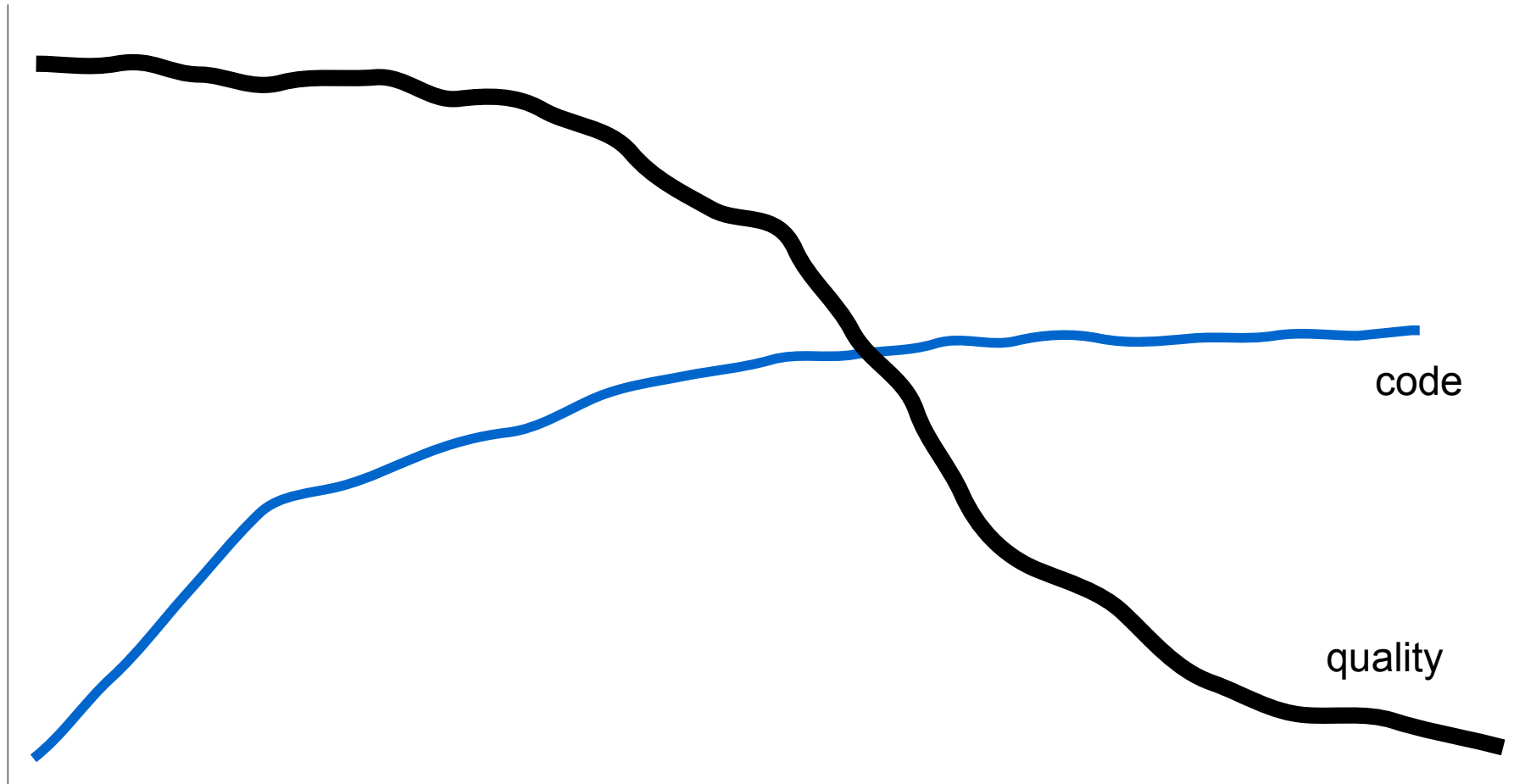 - Debugging   **ONE DAY WORK**

Basic skills: Progress over time

progress

Basic skills: codes/difficulties

complexity

code

Basic skills: code quality rating

Skills

- Basic programming skills
  - Coding
  - Debugging   **ONE DAY WORK**

        - How to keep making progress while
          - the software gets larger
          - the software gets more complex

SCALING UP   - changes are arriving

Is it possible?

- Engineering practices and cultures help facebook to keep building new features while the code base grows at an increasing rate.

Skills for not-so-small software

- Project breakdown

  - so that you can develop incrementally

- Complexity reduction techniques

  - so that you understand what you have done

- Automation

  - so that you do not have to do repetitive work

- Work tracking

  - so that you understand how well you work

- Planning/Estimation

  - so that you can make commitment