

# Person-hours estimate

We will estimate using the lines of code technique with projects 1 and 3. These two projects were built by our team using web languages, so they are the most representative for project 4.

Project 1:

- 688 lines of code
- About 80 person-hours
- $80/688 \approx 0.12$  person-hours per line of code

Project 3:

- 1224 lines of code
- 112 person-hours
- $112/1224 \approx 0.09$  person-hours per line of code

Average between projects 1 and 3: **0.10 person-hours per line of code**

Estimating the lines of code will be tricky as a lot of this project involves modifying existing code as well writing a test suite (which we have not done before). The simplest thing to do is to estimate the number of new lines in project 4, which would be the total lines minus the 1224 lines from project 3. We estimate this to be about **800 lines of code**.  $800 * 0.10 \approx$  **80 person-hours for project 4**.