Review

- Why do we need issue tracking tools?
- What features do they have?
  - Unique features?
- Which tool did you like best?

AGILE DEVELOPMENT

Agile Development

- Iterative, incremental development
- Various frameworks/constructions
  - Extreme programming
    - Continuous integration, test-driven development, extensive code reviews, pair programming
  - Scrum
    - Organize work in sprints
  - Kanban
    - Limit work in progress

Not mutually exclusive

JIRA   http://csjira.wlu.edu

- Collaboration tool
- Issue Tracking Tool
  - One of few proprietary tools we'll use

Agile Development Framework: Scrum

- **The Scrum framework in 30 seconds**
  - ➤ Product owner creates prioritized wish list, *a product backlog*
  - ➤ Team works in a *sprint*, usually 2-4 weeks
    - During planning, team picks a subset of wish list, *a sprint backlog*, and decides how to implement those pieces
    - Daily Scrum: team meets daily to assess its progress
      - ➤ ScrumMaster keeps the team focused on its goal
    - At end of sprint, work should be potentially shippable:
      - ➤ ready to hand to a customer, put on a store shelf, or show to a stakeholder
    - The sprint ends with a sprint review and retrospective
  - ➤ Repeat sprint

`https://www.scrumalliance.org/why-scrum`