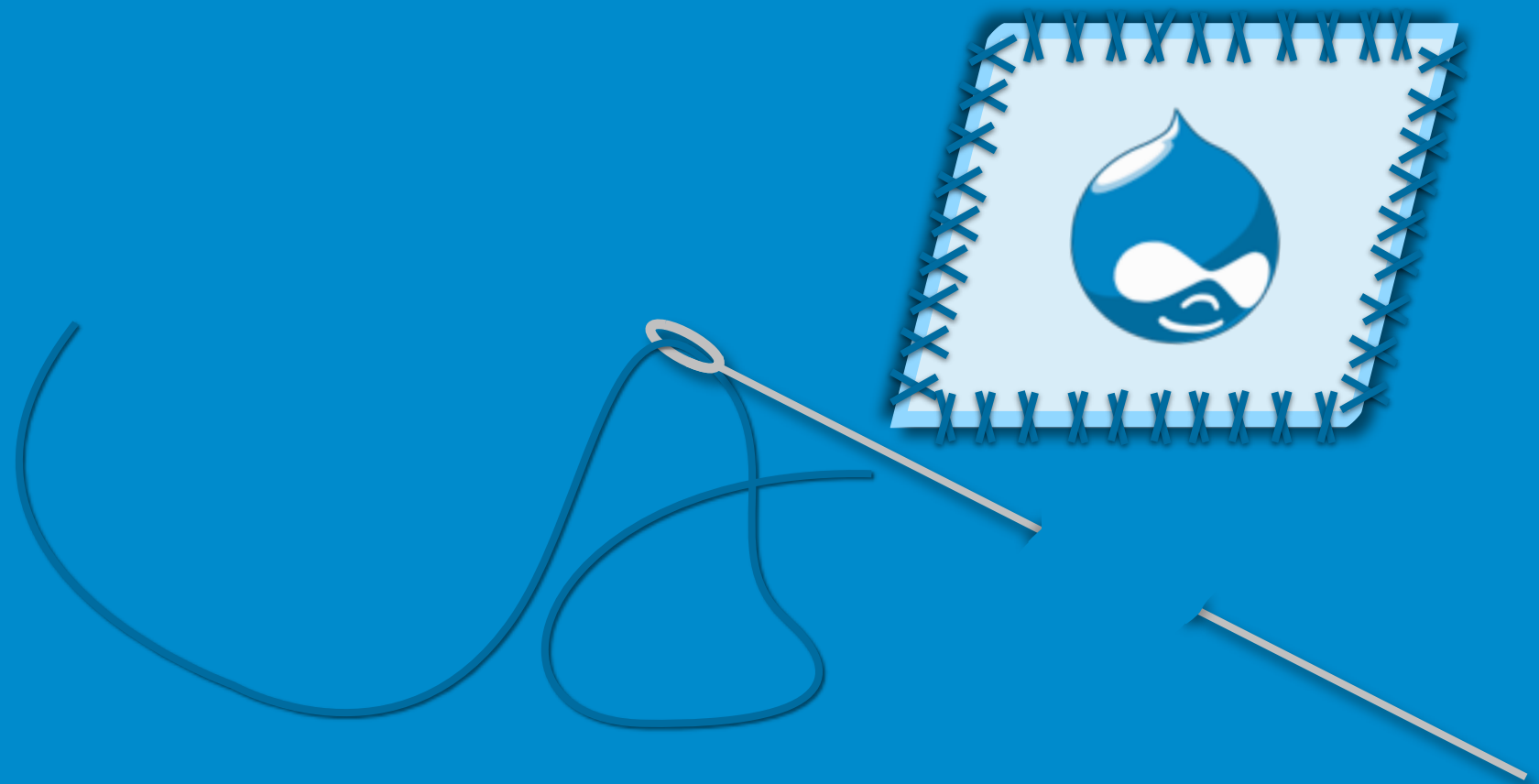


Patch Review

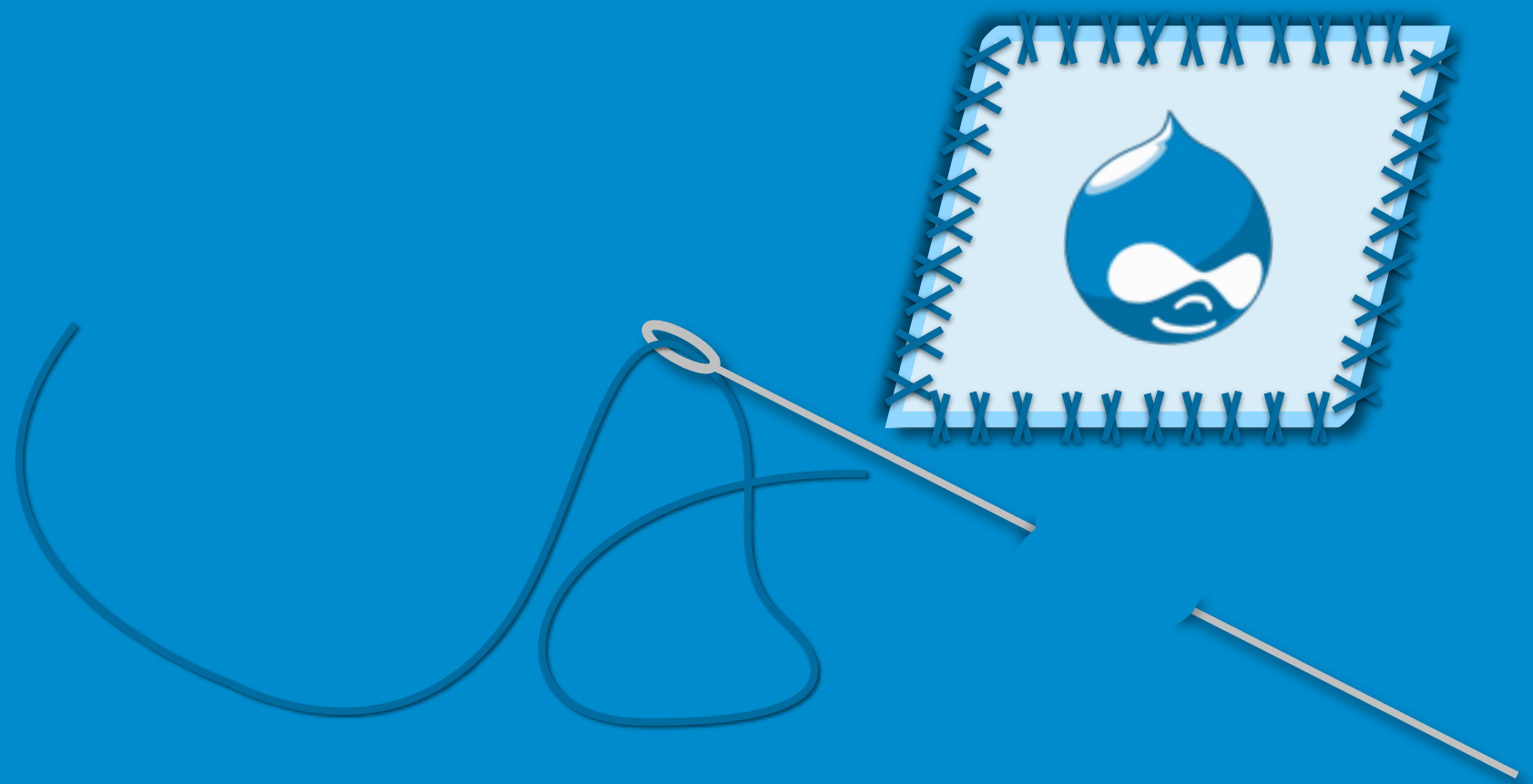


Who are we?



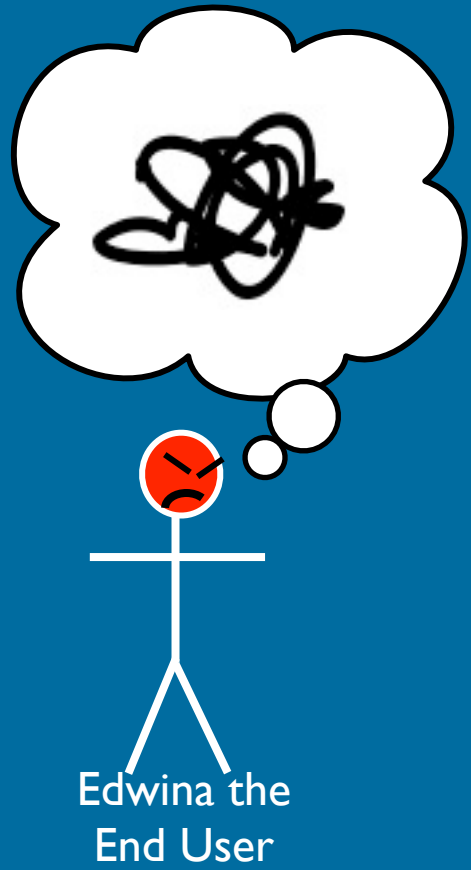
- Jess (xjm)
- Andrea (zendoodles)

Patch what?



How improvements are made

How improvements are made



How improvements are made



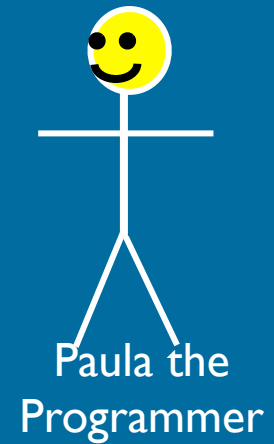
Issue queue



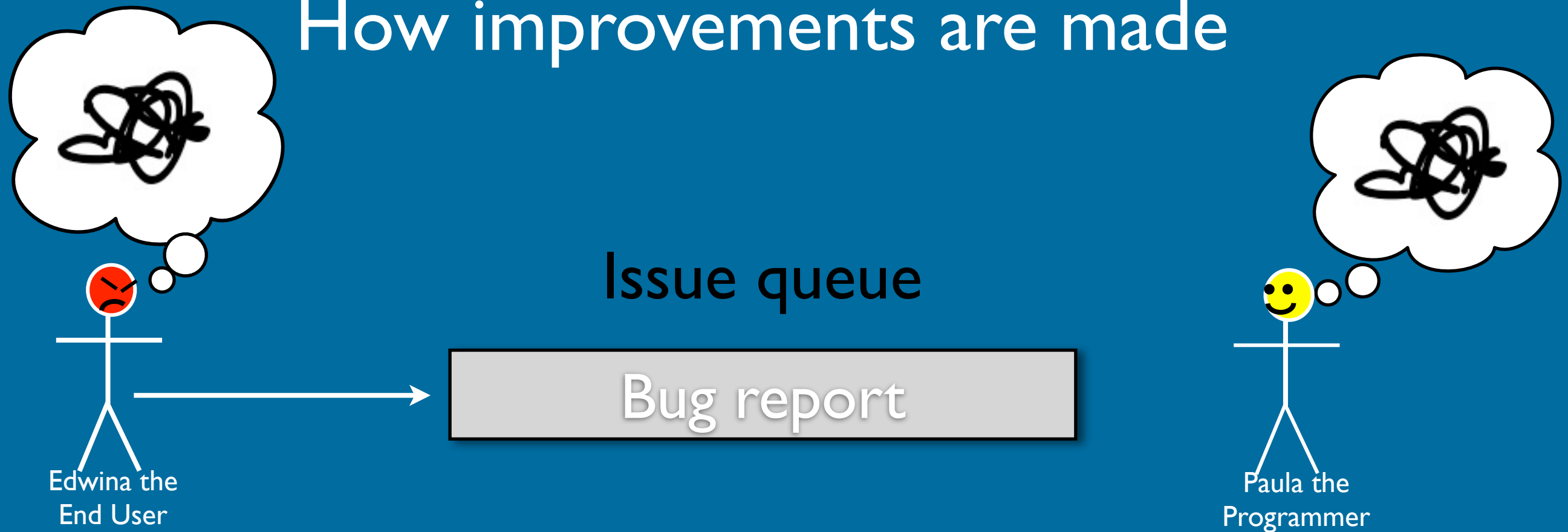
How improvements are made



Issue queue



How improvements are made



How improvements are made



Edwina the
End User

Issue queue

Bug report

Paula the
Programmer

Hey,
look! A bug
report!

How improvements are made



Edwina the
End User

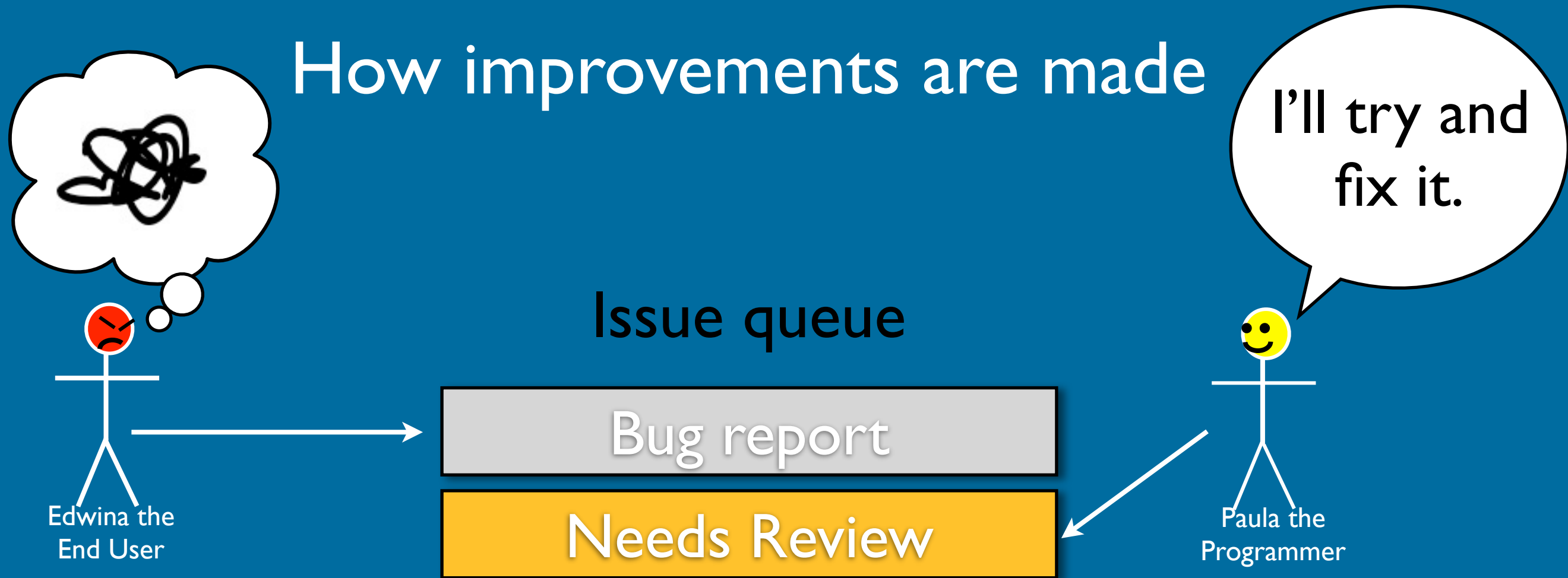
Issue queue

Bug report

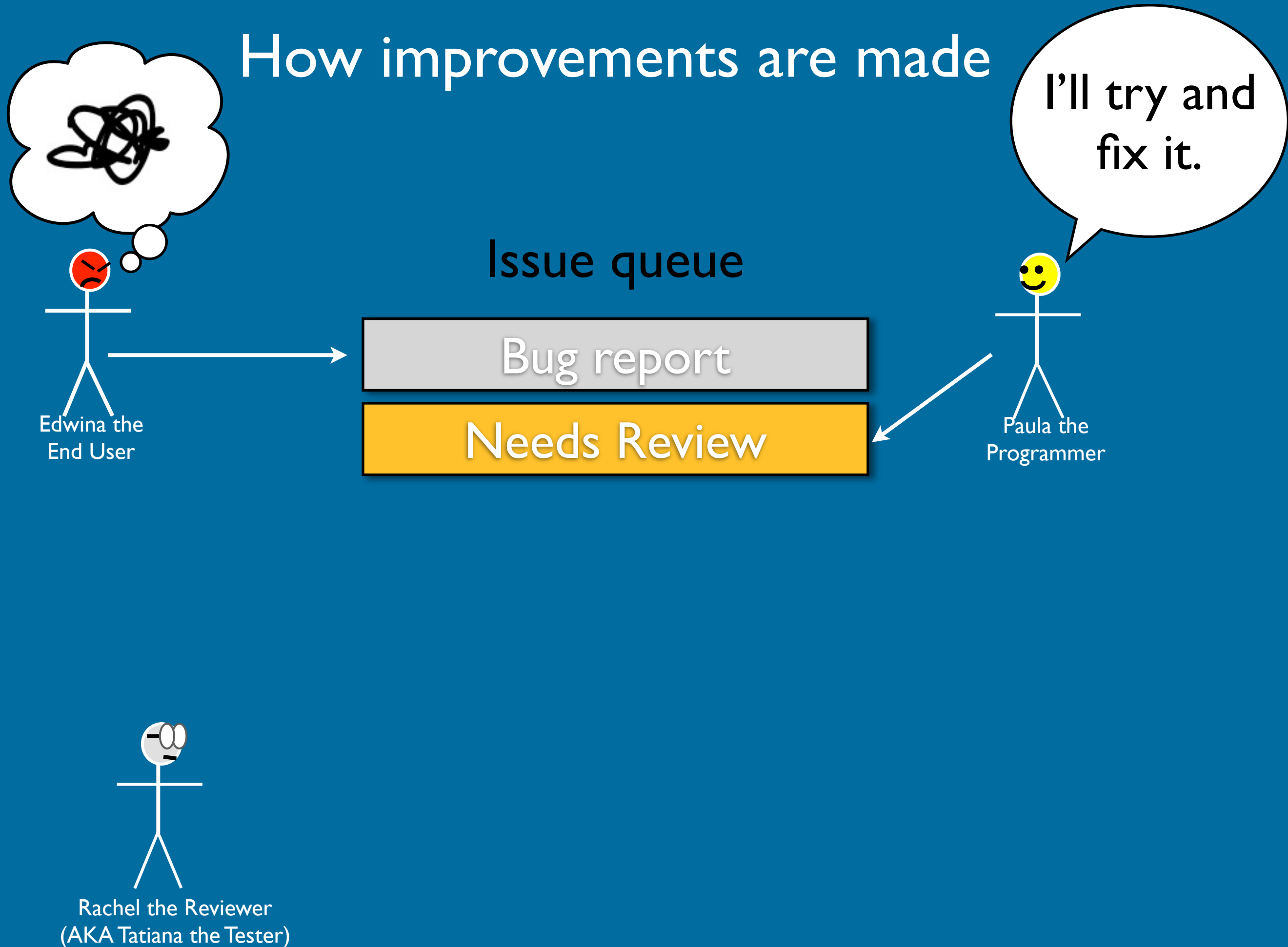
I'll try and
fix it.

Paula the
Programmer

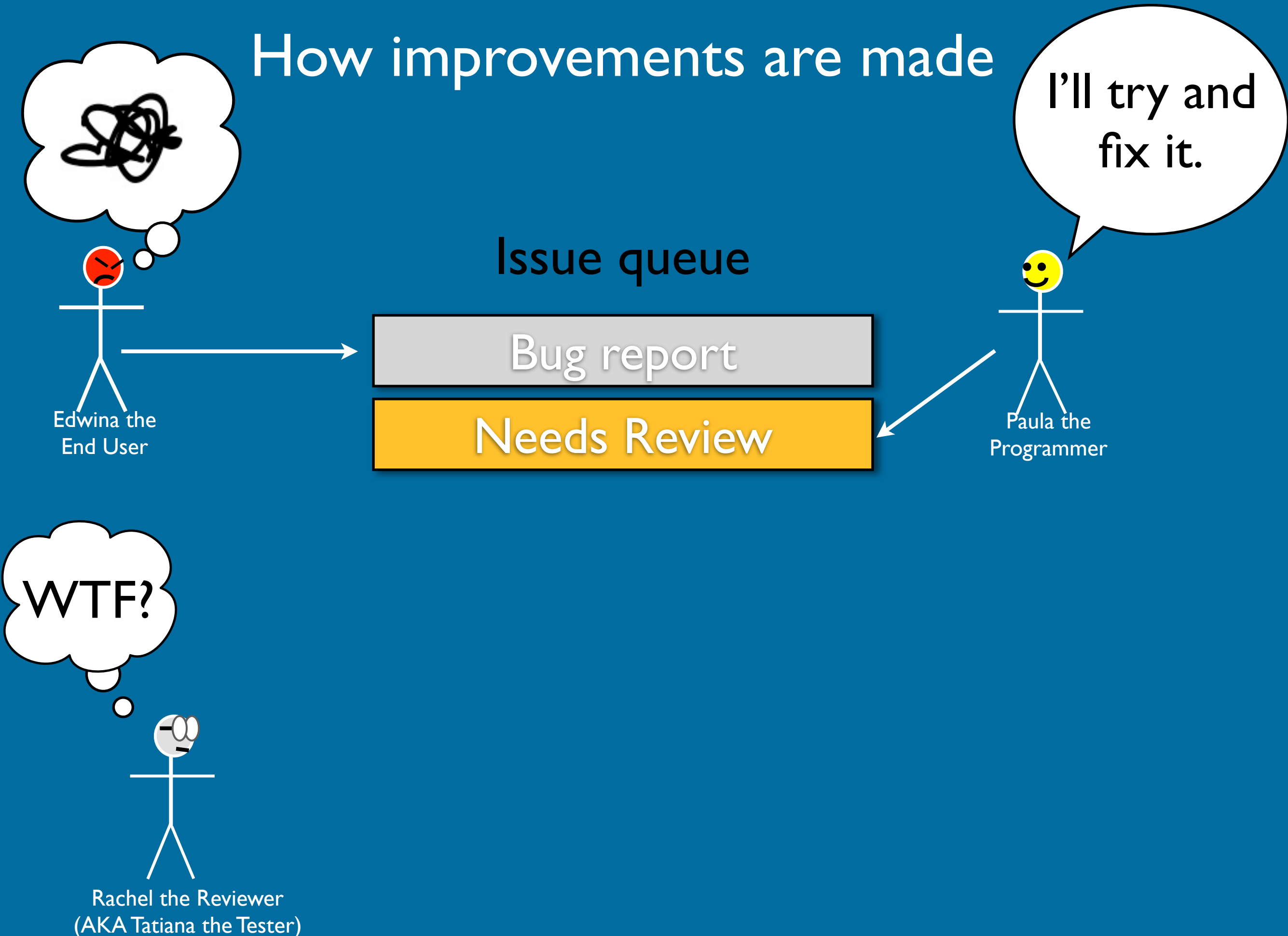
How improvements are made



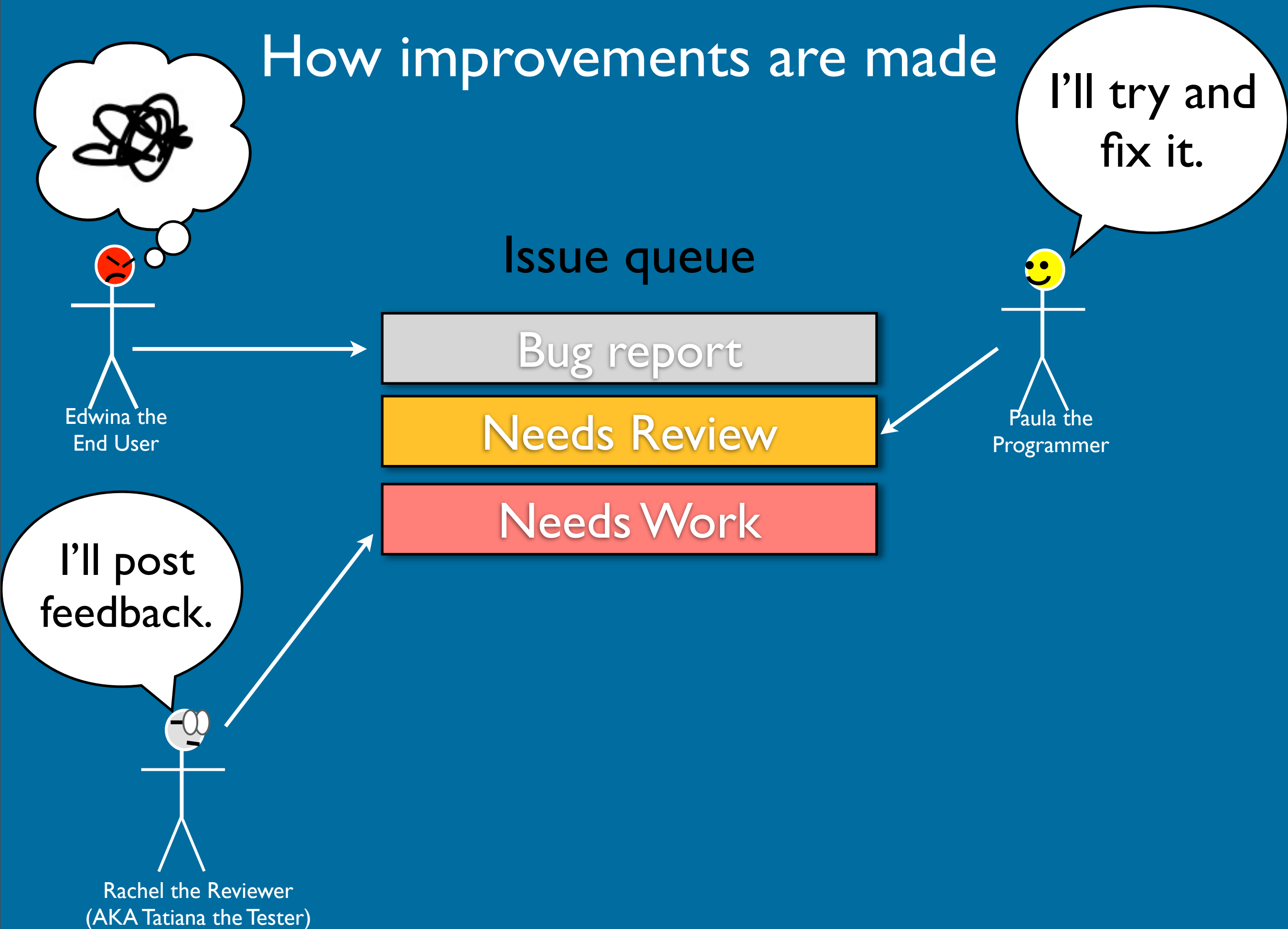
How improvements are made



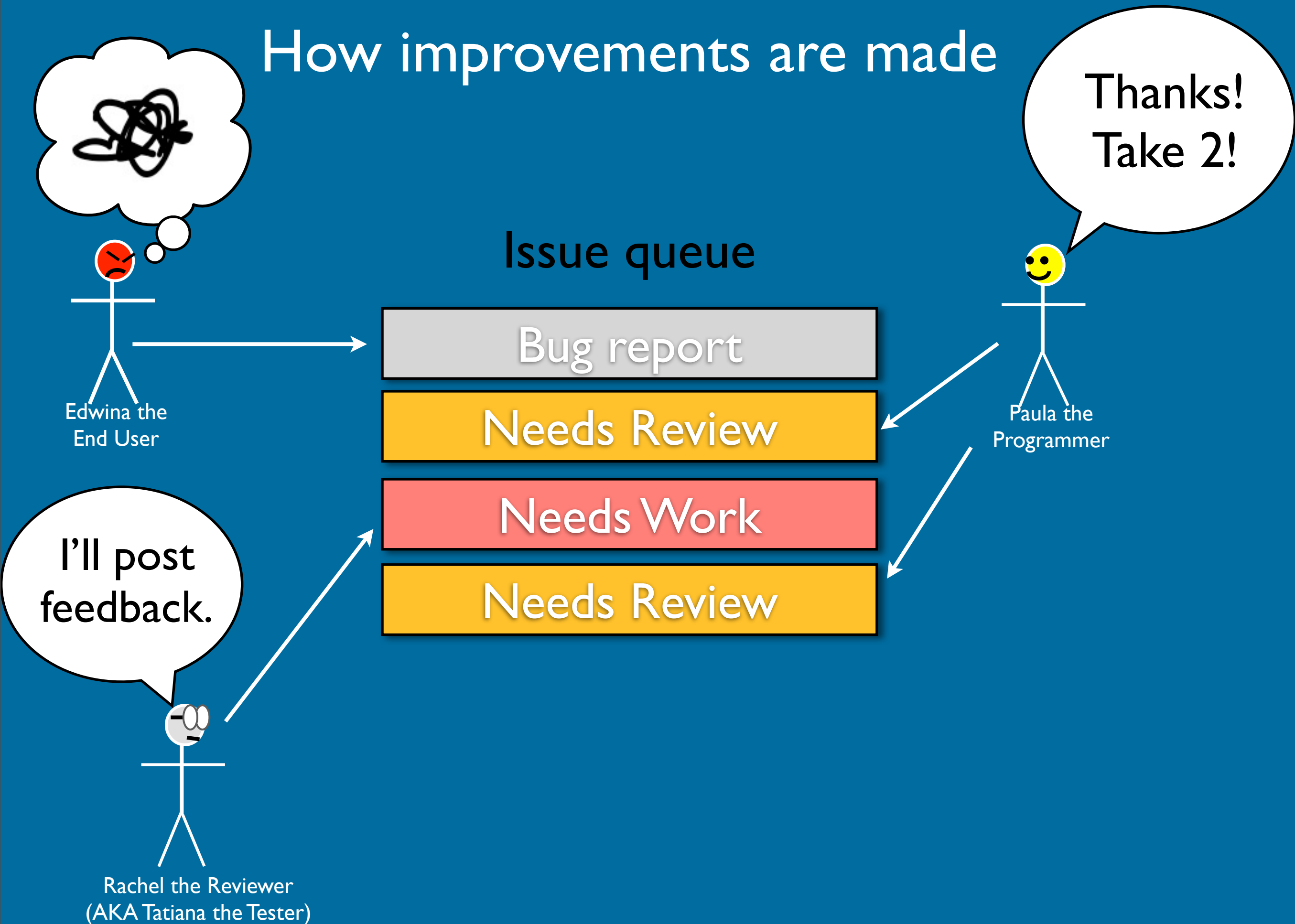
How improvements are made



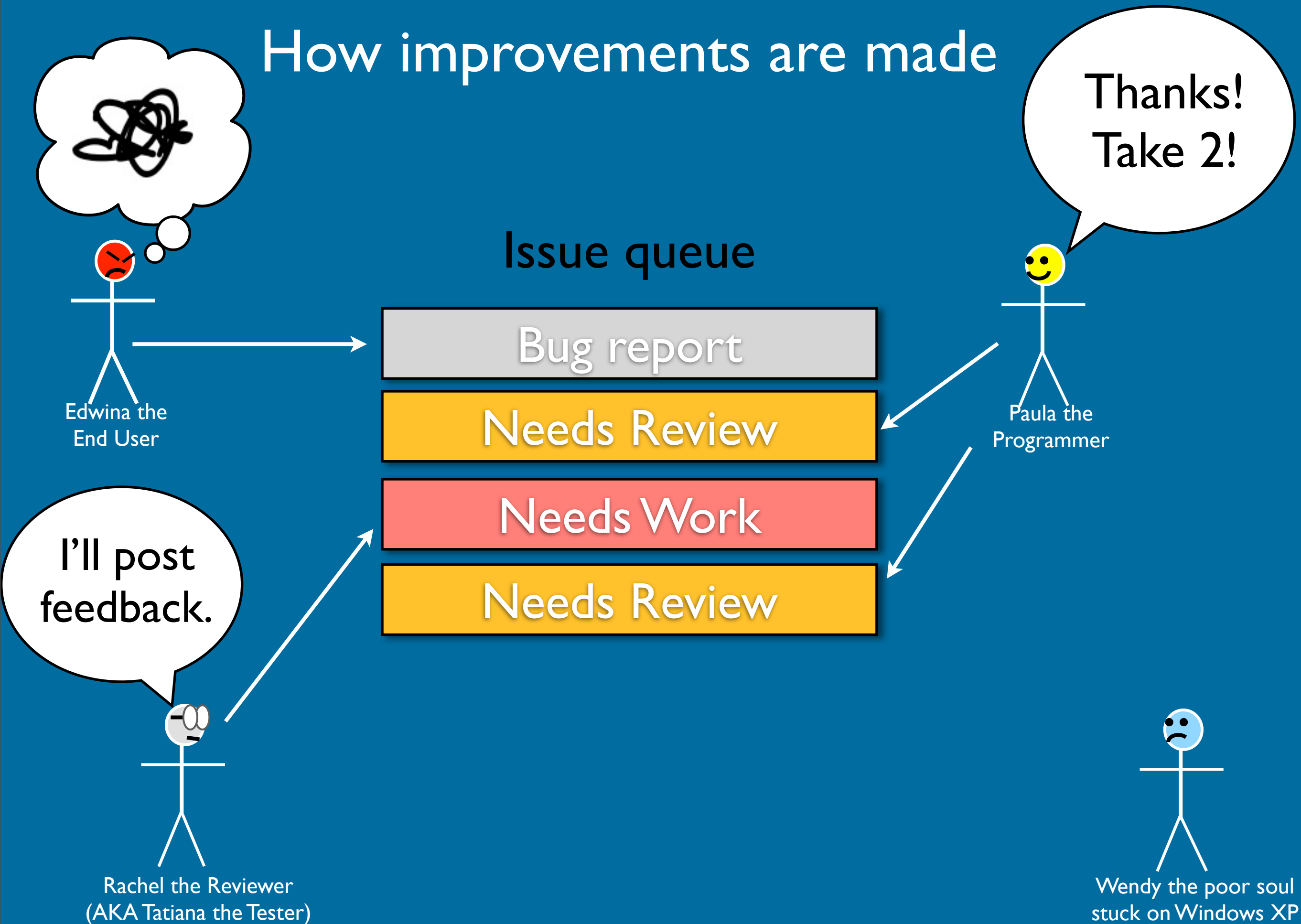
How improvements are made



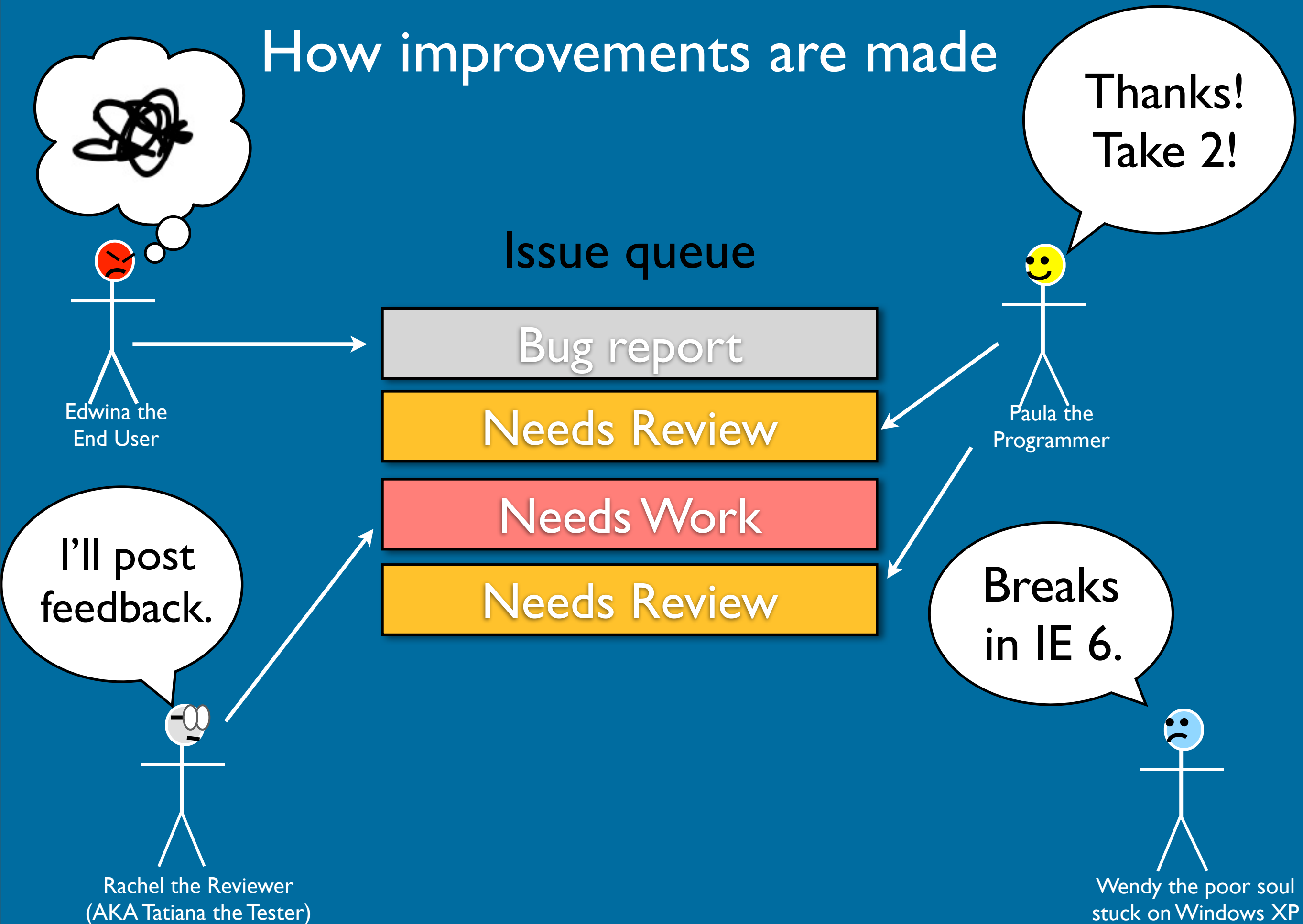
How improvements are made



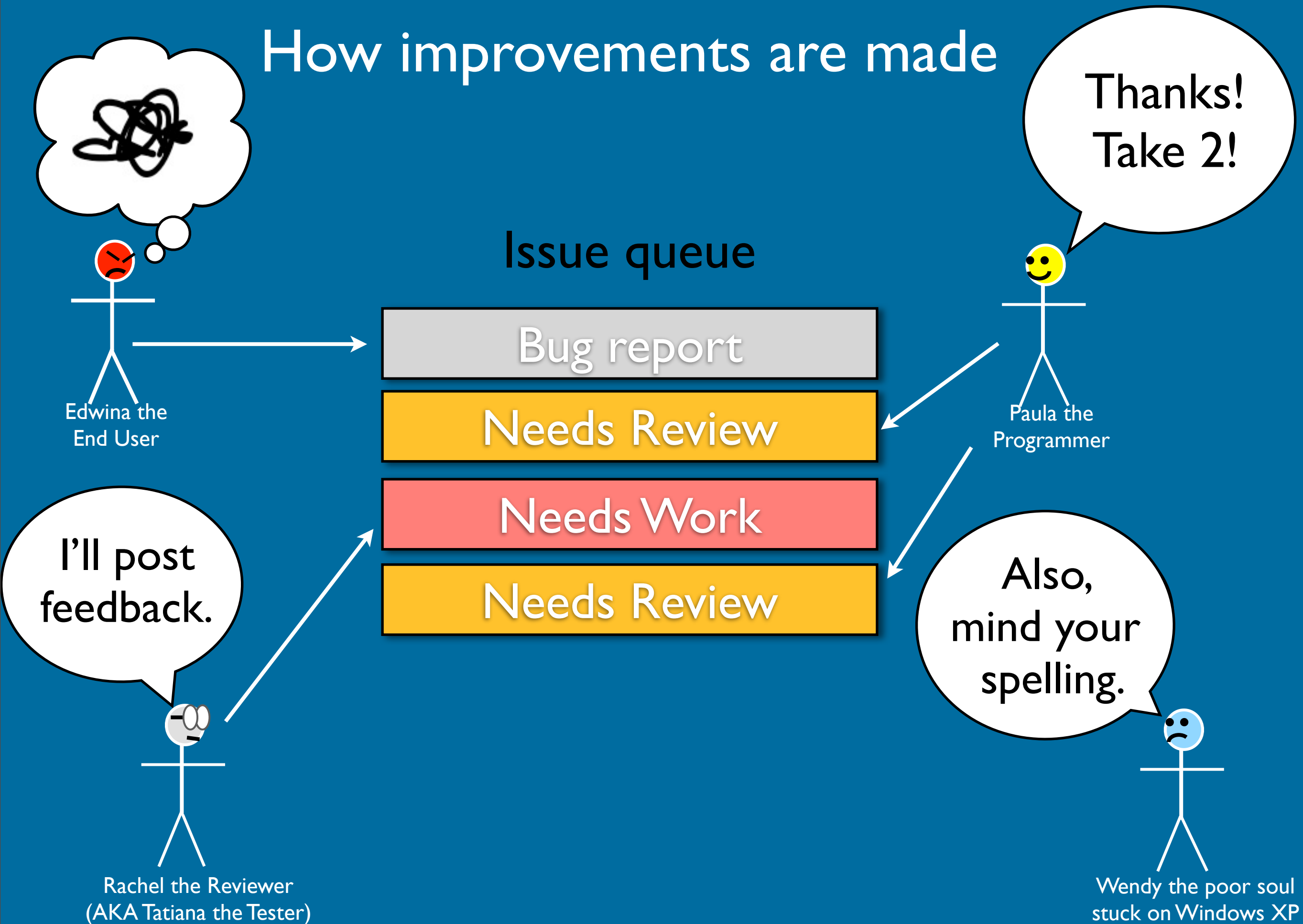
How improvements are made



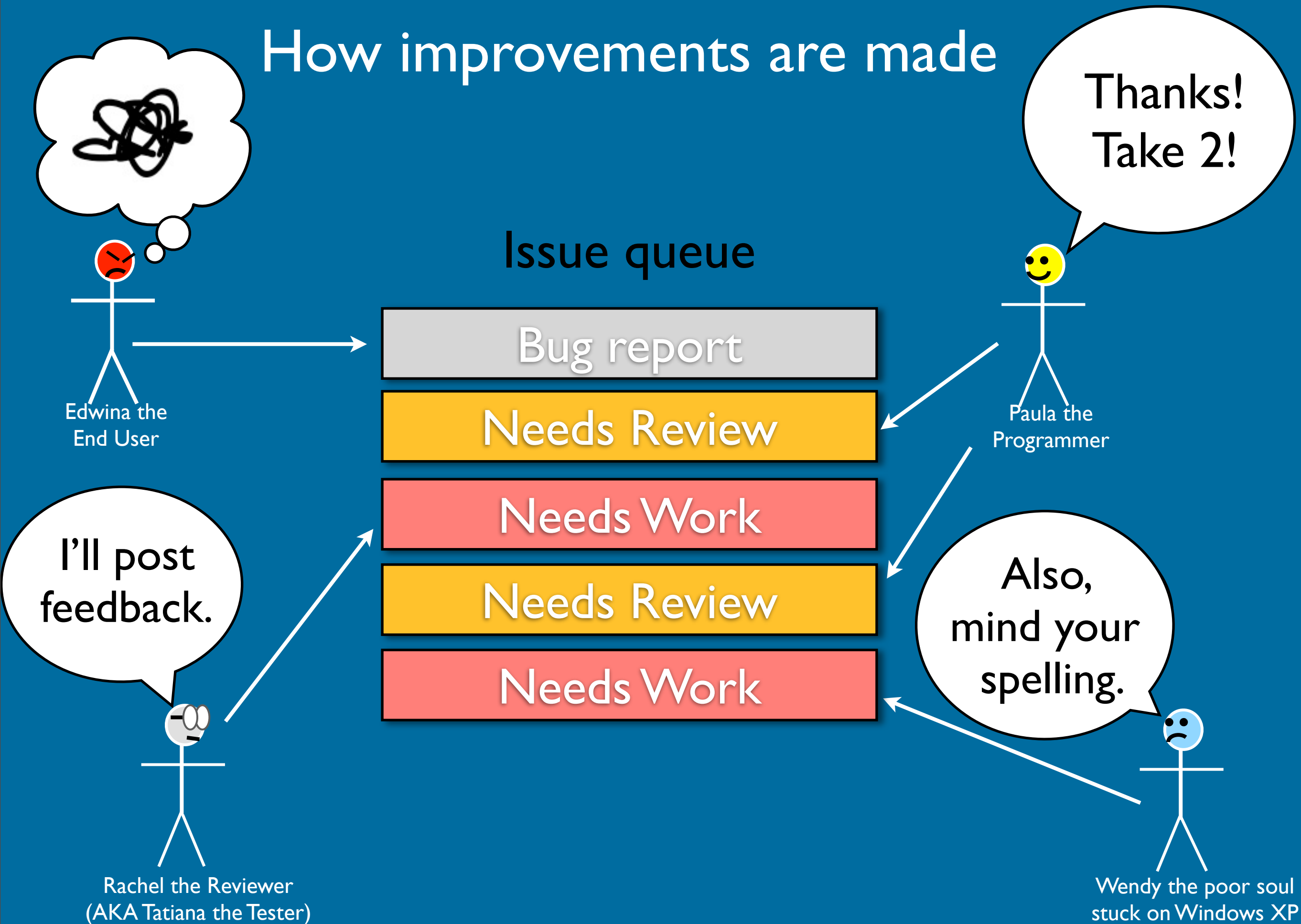
How improvements are made



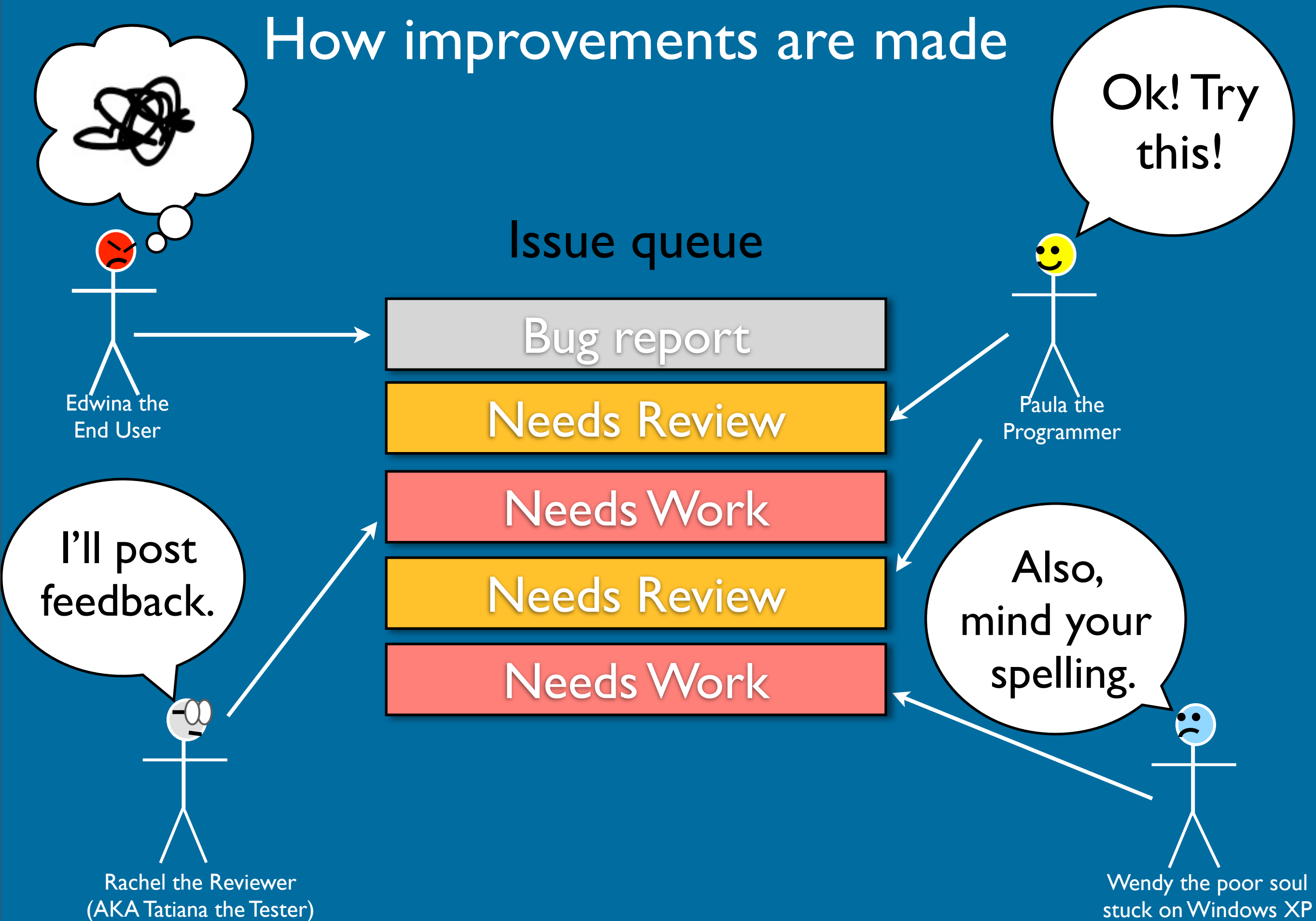
How improvements are made



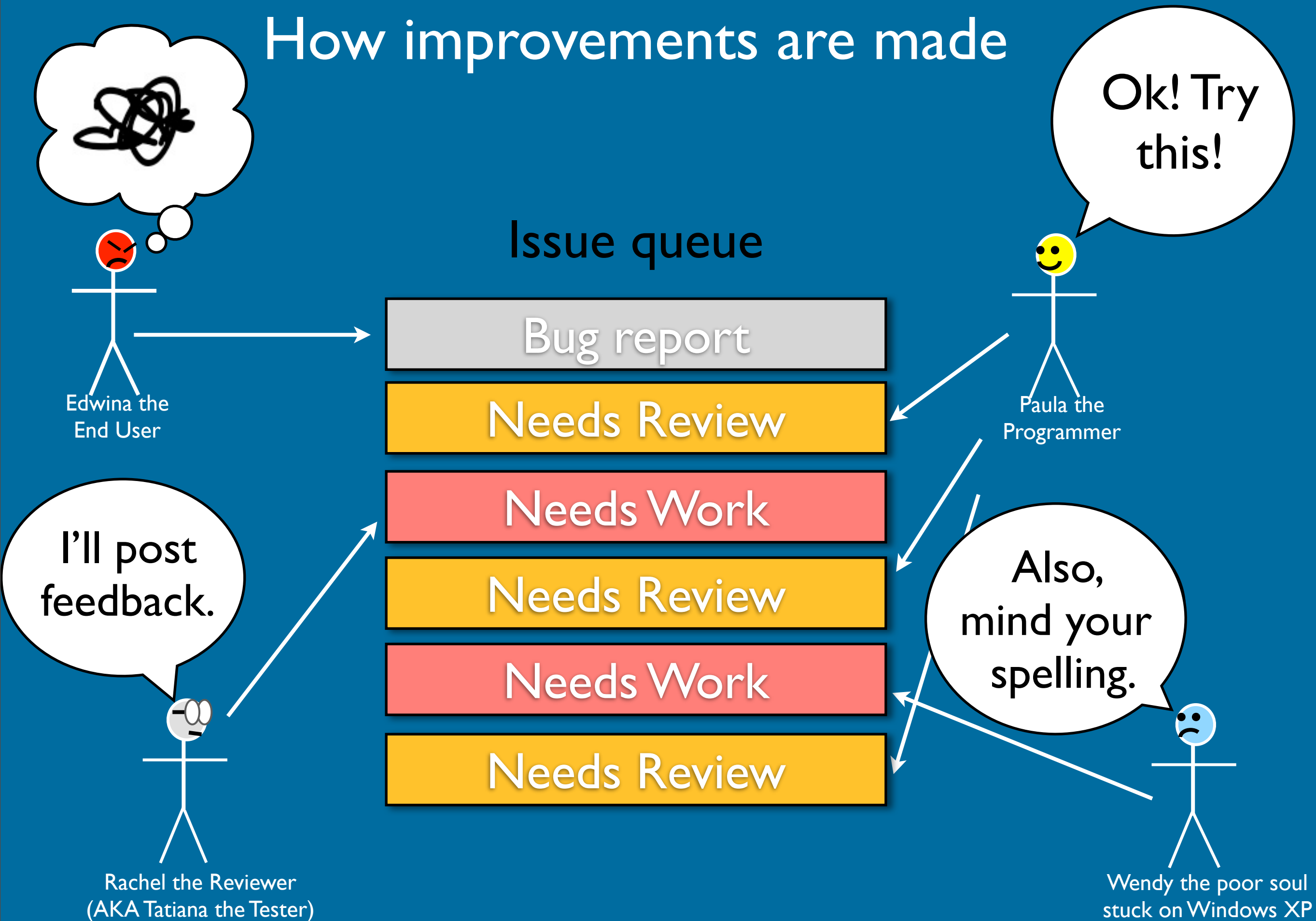
How improvements are made



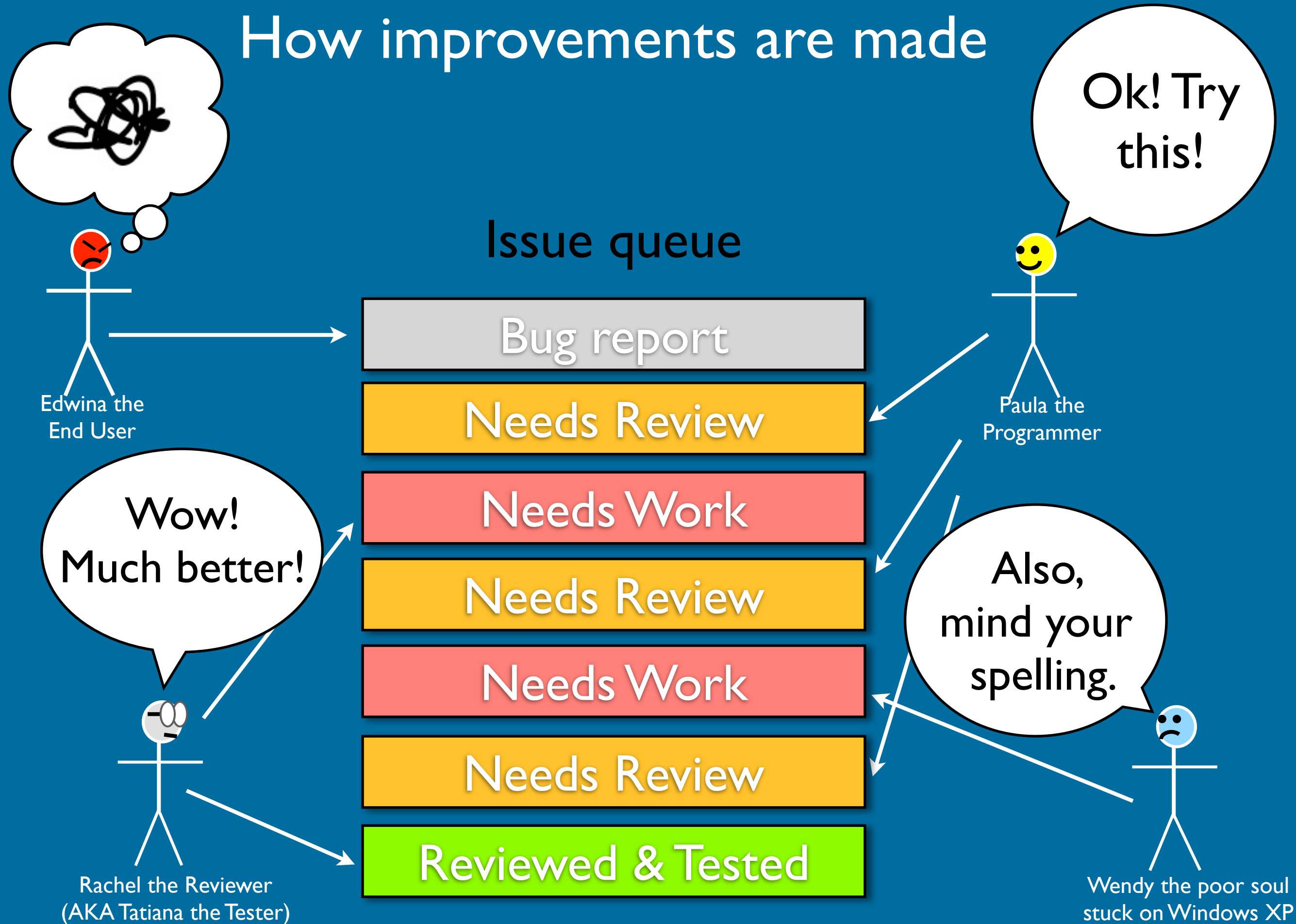
How improvements are made



How improvements are made



How improvements are made



Drupal Patch Reviews



- Automated testing



Drupal Patch Reviews

- Automated testing
- Peer code review



Drupal Patch Reviews

- Automated testing
- Peer code review
- Accessibility



Drupal Patch Reviews

- Automated testing
- Peer code review
 - Accessibility
 - Performance



Drupal Patch Reviews

- Automated testing
- Peer code review
 - Accessibility
 - Performance
 - Security



Drupal Patch Reviews

- Automated testing
- Peer code review
 - Accessibility
 - Performance
 - Security
 - Usability



Drupal Patch Reviews

- Automated testing
- Peer code review
 - ⌘· Accessibility
 - ⌘· Performance
 - ⌘· Security
 - ⌘· Usability
- Committer review



Drupal Patch Reviews

- Peer code review

Drupal Patch Reviews



Why Review?

- Code Standards
- Education/Mentoring
- Quality End Product



- **Security**
- **Maintainability**
- **Documentation**



Code Standards

Mentoring the Next Generation

- **Paula the Programmer**
- **Rachel the Reviewer**



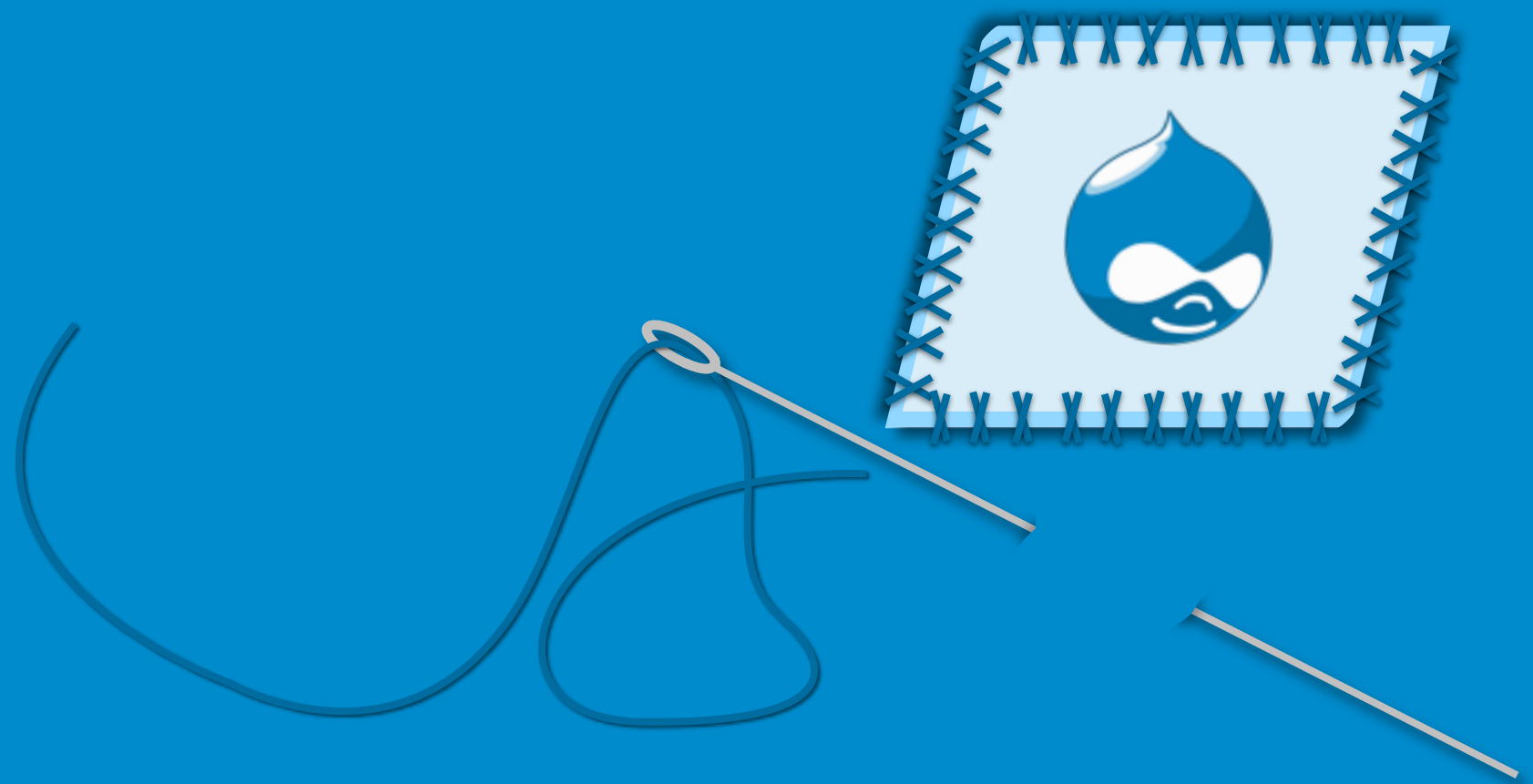
Education

Drupal™

ROCKS!

Quality End Product

What is important when reviewing?



Full Frontal Nicety



- Encourage
- Support Improvement
- When in doubt... ask!

Encourage

- Acknowledge effort
- Show gratitude



Full Frontal Nicety

Support Improvement

- Be specific
- Provide links to documentation



Full Frontal Nicety

Does it work?



- Fixes the issue.
- Does not stray from the scope.
- Doesn't introduce regressions.

Does the solution make sense?



- Do you understand what's going on in the patch? Would someone not familiar with the issue understand too?
 - Does it need more comments?
 - Should you ask for guidance?
- Is there a better or more elegant solution?
 - Here be dragons!

Gates



- Documentation
- Performance
- Accessibility
- Usability
- Testing

Coding Style



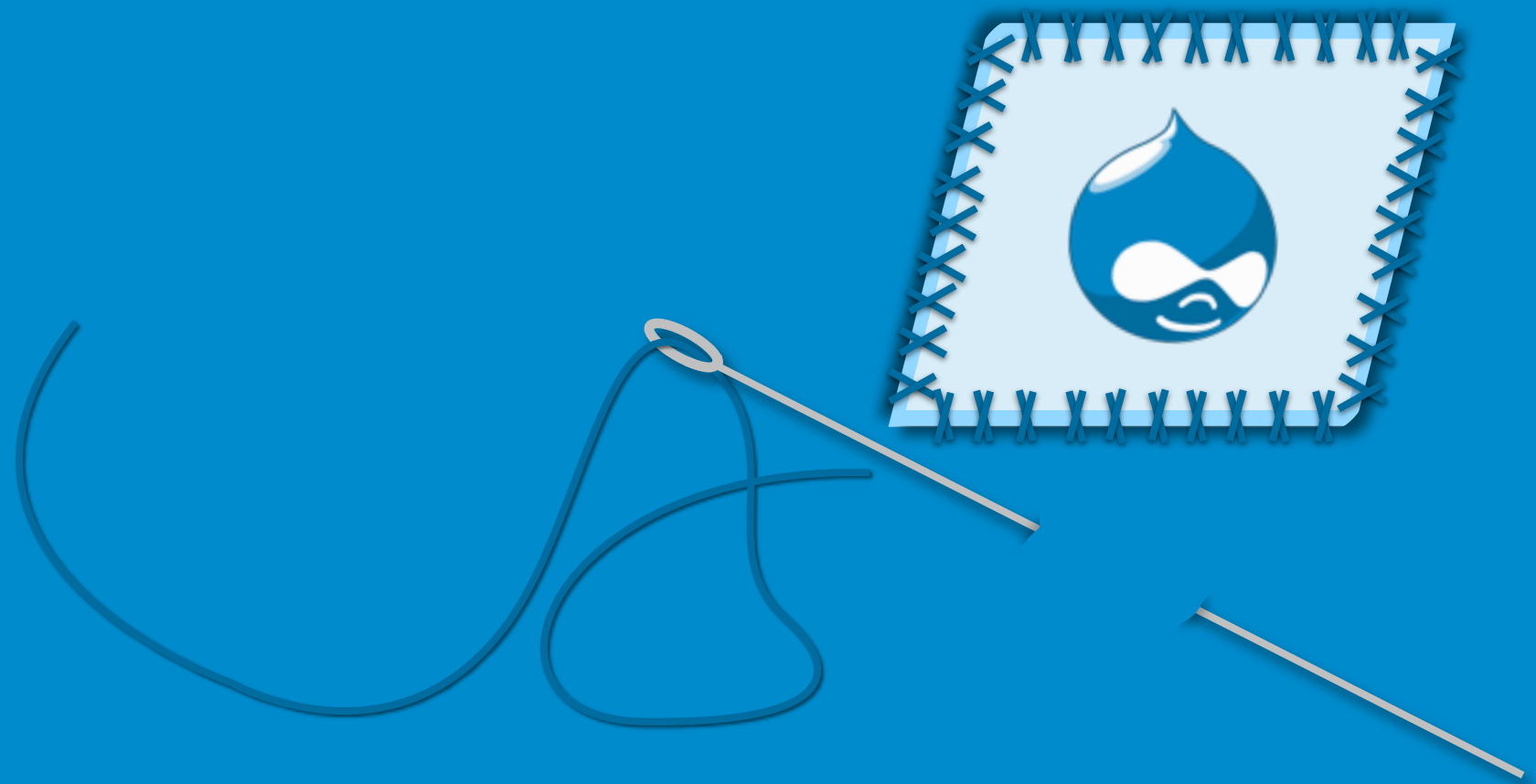
- PEAR Coding Standards
- Doxygen Style Guide (1354)

- Dreditor
- Your IDE
- PHP Lint (php -l)
 - See also... JSLint
 - csslint
- Coder Module
- Code Sniffer
- Grammar Parser Module



Some Tools

Review Workflow



- You cannot un-read the issue
- Perfect is the enemy of good (and done)... sometimes.
- Everyone is different! Hone your own review process

First... some hints!





Dreditor Demo

- Look for the most recent patch
 - ⚡ Note tests-only and/or interdiffs
- Open in Dreditor
 - ⚡ diffstats
 - ⚡ modified files
 - ⚡ functions changed
- Are there tests?

Scope



- Check the API documentation

- Note

- Code style issues

- Unclear comments

Bottoms up



For each hunk or function

- Does it make sense?
- Is it in scope?
- Is it documented?

...and back down



- See code in context.
- With handy color coding.
- Step debugging is available.

**...but zendoodles still needs
the IDE sometimes too!**



Thank You!

Linux Australia

Drupal Association

t-shirt people?

Kim Pepper

Stephanie El-Hajj

Neil Kent

webchick

timplunkett

jthorson



Jess (xjm) and Andrea (zendoodles)
Find us on IRC too!