

**Agile Peer Feedback  
in the Classroom**

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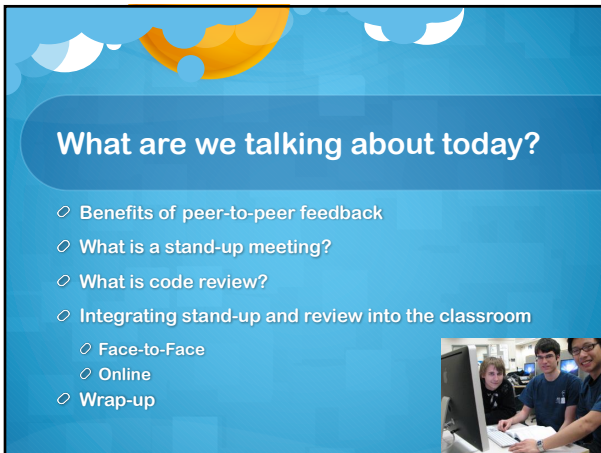
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**What are we talking about today?**

- o Benefits of peer-to-peer feedback
- o What is a stand-up meeting?
- o What is code review?
- o Integrating stand-up and review into the classroom
  - o Face-to-Face
  - o Online
- o Wrap-up



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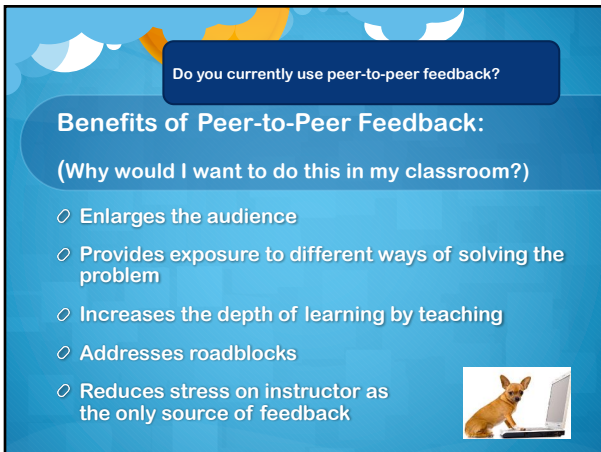
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Do you currently use peer-to-peer feedback?

**Benefits of Peer-to-Peer Feedback:**  
(Why would I want to do this in my classroom?)

- o Enlarges the audience
- o Provides exposure to different ways of solving the problem
- o Increases the depth of learning by teaching
- o Addresses roadblocks
- o Reduces stress on instructor as the only source of feedback



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### My Favorite Forms of Peer-to-Peer Feedback:

Stand-Up Meetings → Code Review



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### What is a Stand-Up Meeting?

- Students stand in a circle and answer three questions:
  - What task did you just finish?
  - What is your next task?
  - What are your roadblocks?
- Originated in Agile development methodology



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### What is a Code Review?

- Developers pair together and review one another's code
- Also common on Agile software development teams



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### Integrating Stand-Up Meetings into the Classroom

Do you teach online, face-to-face, or hybrid? Answer in chat



#### Before Stand-Up

- Read article "Daily Stand-Up Meeting" by Don Wells
- Sign professionalism agreement
- Discuss three questions

#### After Stand-Up

- Instructor gives hints for overcoming common roadblocks
- Students pair to address roadblocks

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### What if I have an online class?



#### Strategies

- Clear, written instructions
- Use a meeting tool
- Post answers to questions in discussion board
- Then post to help other students with roadblocks



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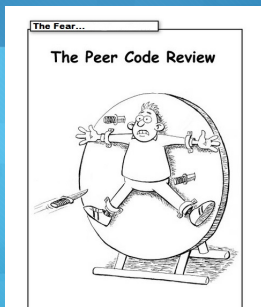
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### Why I Use a Professionalism Agreement . . .



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## Code Reviews

(Or reviews of any deliverable . . . )

Students bring rough draft

Pair to give feedback

Provide review worksheet

- Based on rubric
- Structures feedback

Let's look at an example of a review worksheet . . .

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ITTEC2505-Objective-C Programming

### Example Code Review Worksheet

**Coding Challenge #9**  
**Name of reviewer: Tom Baker**  
**Name of developer being reviewed: Patrick Stewart**

Objectives	Level	Description
<b>Functionality</b>	<b>Exceptional</b>	The code meets the functionality described in the coding challenge assignment. If a specifications document is required for the assignment, the code also meets the functionality described in the specifications document.
	<b>Acceptable</b>	The code mostly meets the functionality described in the coding challenge assignment. If a specifications document is required for the assignment, the code mostly meets the functionality described in the specifications document.
	<b>Amateur</b>	The code is partially completed, and does not meet the functionality described in the coding challenge assignment. If the assignment requires a specifications document, the code may not meet the functionality described in the specifications document or the document is not submitted with the code.
	<b>Unsatisfactory</b>	The code cannot be tested so it is unknown if it meets the functionality in the coding challenge assignment.

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## Holding Reviews Online

If you teach online/hybrid, what methods do your students use to communicate?

**Synchronous Delivery**

- Clear, written instructions are key
- Post rough draft in discussion board
- Use D2L Chat or online meeting tool (Skype, Captivate or Zoom) for students to give feedback
- Works best with open-ended assignments

**Asynchronous Delivery**

- Clear, written instructions are key
- Post rough draft in discussion board
- Email review worksheet and upload to dropbox
- Works best with assignments that are creative, contain multiple solutions

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Please post your questions in the chat.

## So, Does it Work?



- More enthusiasm for projects
- No more last minute craziness
- Positive peer pressure to finish
- Students ability to verbally discuss their work improved
- Increased professionalism, trust on the team
- Less over-reliance on instructor,  
More peer-to-peer collaboration

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## Resources

- Stand-Up Meetings by Don Wells:  
<http://www.extremeprogramming.org/rules/stand-upmeeting.html>

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