

# MOOC on MOOC



## *What is inside a MOOC: Assessment*

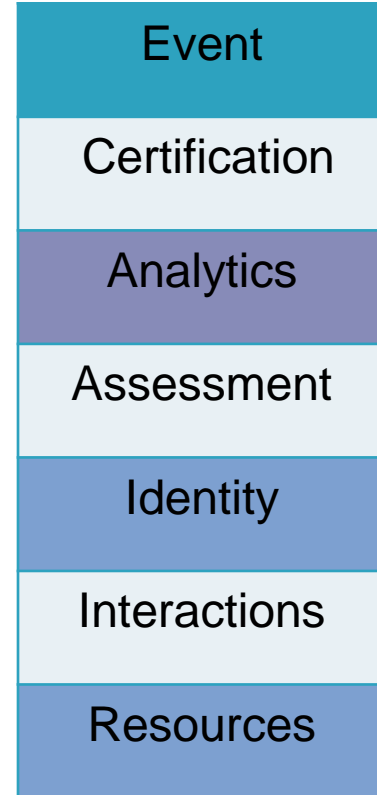
**MOOC4D**

massive open online courses  
for development

# Assessment

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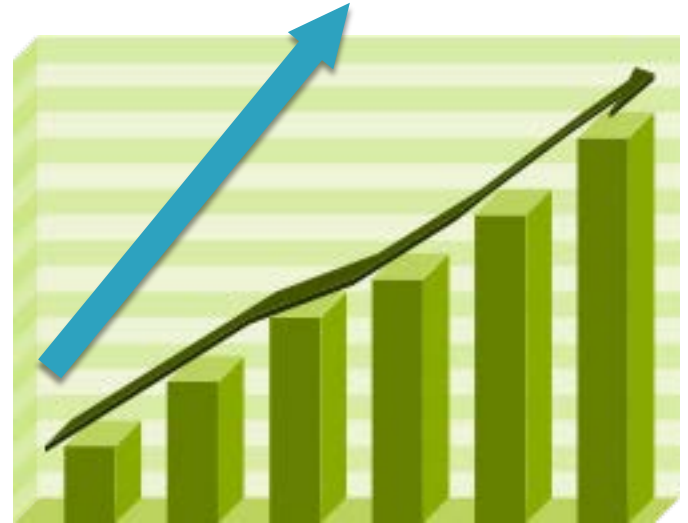
- Integral part of learning
- Not just to test what the student knows, but to tell the student what is important
- Proficiency Certification requires testing
- Connected to Identity management



# The issue is

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- How do we correct thousand of submissions?
- Human grading won't scale



# Automated Grading

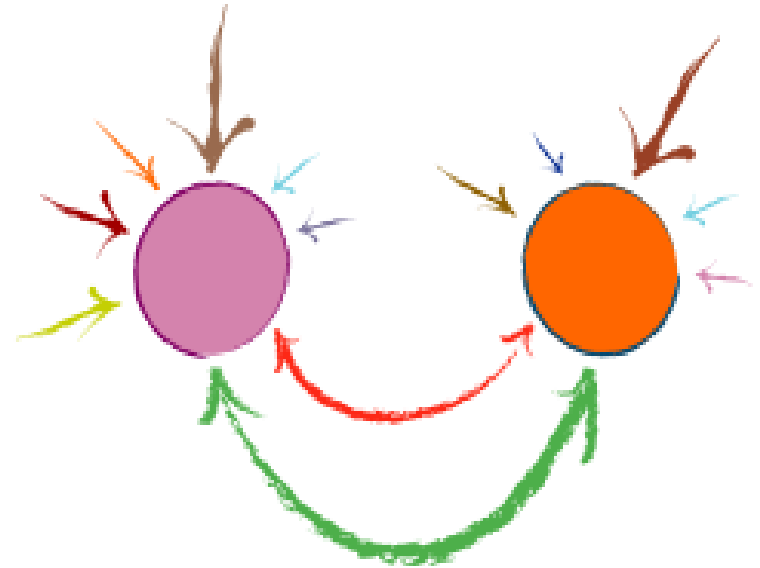
- Multiple choice question
- True/False Question
- Timed or not-timed
- Allow repeated attempts
- Give hints
- Does not work for essays and designs



# Peer and Self Assessment

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- Get the students to grade other students and themselves!



# How does Peer assessment work?

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- Students are given a guideline on how to grade, called a 'Rubric'
- Each student grades 4-5 other submissions and also her own assignment
- The final grade will be a function of these grades

# What is a Rubric?

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- A scoring tool
- Explicitly shows the expectations for the assignment
- Divide the work into parts and describe the characteristics associated with each part, at varying levels of mastery (not OK, OK, Good...)

<http://www.cmu.edu/teaching/design/teach/rubrics.html>

# Does peer grading work?

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- Problems
  - Students and experts have different understanding
  - Schedules may not match
- But
  - Increases student involvement
  - Subsequent performance improves



# What is the experience?

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- Peer grades do correlate with Staff assigned grades
- Students tend to give themselves a few more marks than the staff
- Good students get lower grades
- Weak students self grades are higher
- Cultural issues!

C. Kulkarni, K. Pang-Wei, H. Le, D. Chia, K. Papadopoulos, D. Koller, and S. R. Klemmer. Scaling self and peer assessment to the global design classroom. Proceedings of CHI'13, 2013

# How to improve peer grading?

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- Pay attention to Rubrics
- How reliable is the grader: Student own grade with grading ability
- Tune the grades

Tuned Models of Peer Assessment in MOOCs. Chris Piech, Jonathan Huang, Zhenghao Chen, Chuong Do, Andrew Ng, Daphne Koller

Identity– Assessment- Certification

Thank You