What's new with WeBWorK?



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Introduction

WeBWorK is an open-source online homework platform for STEM courses.

- Free for students: Allows for truly zero cost courses
- Customizable & Adaptable: Professors can ask questions they want to ask
- Community-Driven: Repository of over 35,000 questions
- Opportunities for Analysis: Ability to retrieve & analyze student interaction data

Features of WeBWorK 2.16

- Macro for inserting TikZ images into problems
- Macro for interactive graphing problems via JavaScript
- Manual problem grader that works for all problems
- Student nav for instructors acting as a student
- General improvements to Gateway Quizzes

To see WeBWorK 2.16 in action, go to: https://jasper.csmp.missouriwestern.edu/webwork2

Embedding WeBWorK problems in OER systems

- The standalone renderer
 https://github.com/drdrew42/renderer provides a scalable backend for problem rendering/grading
- This supplements, and can replace, the less scalable support provided by a regular WW server.
- Being used by
 - PreTeXt
 - LibreTexts

Web presence working meeting (June 14-16, 2021)

- 12 community members
- Site redesign: <u>www.openwebwork.org</u>
- Wiki updates: https://webwork.maa.org/wiki/Main_Page

Code Camps

OPL Code Camp: July 6-9, 2021.

- Expand the current OPL taxonomy to incorporate topics from the fields of Chemistry, Engineering, and Physics.
- Familiarity with coding problems is not required for participants, as our efforts will center on sorting and classifying existing problems.

Code Camps

PG Code Camp: July 20-22, 2021.

- Modernize and organize the PG code base which facilitates authoring of WeBWorK PG questions.
- Repairing and uniformizing the PG infrastructure and integrating tools for new technologies and ideas is long overdue.

CUNY WeBWorK + LibreTexts

- Linear Algebra CCNY, City Tech & York College
- Introductory Statistics with Probability City Tech, BMCC & BCC
- Algebra and Trigonometry City Tech
- Calculus I QCC & BCC

How you can get involved

Where we are headed

WeBWorK 3

- Complete rewrite of WeBWorK2, leverage OPL.
- Interface will be a Single Page Application (fast!!)
- The back end will be modular to allow breaking up the code into services.
- We hope this will get more developers in.

Thank you!

www.openwebwork.org