**green**: A Software Design Tool Developed by Students for Students

**green** is a live round-tripping UML class diagram editor, meaning that it supports both forward and reverse engineering of Java code.

**green** is incorporated into the Eclipse Integrated Development Environment (IDE). When a change is made either in code or in the UML diagram, the other is notified of the change and updated accordingly.

**What do CSE115/116 Students Gain?**

- **green** allows students to view their programs from the high level design perspective and detailed code perspective.
- **green** allows the students to focus less on coding and more on good program design.
- **green** provides CSE115/116 students a design experience using a tool appropriate for them.
- **green** grows along with the students, exposing them to new functionality as they progress through their studies.

**What do Student Developers Gain?**

- Having previous CSE 115/116 students continue development of **green** injects student user experience into the development process.
- Provides student developers with the understanding of the pedagogical decisions that drive the design and development of **green**.
- Professional Environment/Experience
  - Teamwork
  - Communication with a user base of students and professional developers
  - Responding to User Needs with regard to Features and Bugs
- Project Management Experience
  - Collaborate Development Tools
  - Unit Testing
  - Updates & Releases
  - Advertising & Promotion

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**green.sourceforge.net**
Total number of downloads: **23,470**
Used by over **200** UB students per semester.

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