

# TEST DRIVEN DEVELOPMENT

OR: HOW I LEARNED TO STOP WORRYING AND LOVE UNIT TESTS

**By:** Ted Warner  
Oberlin CS '09  
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**When:** **Tuesday Sept 29**  
**12:15 PM - 1:15 PM**

**Where:** **King 101**

**What:** Test Driven Development (TDD) is the process of writing code in a short 3 step cycle (red, green, refactor). The TDD methodology not only reduces defects, it inspires flexible designs. This talk explores TDD and how testing influences our design choices.

**Topics:**

- Example Driven Design
- Red-Green-Refactor Cycle
- Designing Testable Systems

**[One Weird Trick Made Me A Better Programmer!](#)**

Can one habit make you faster, more confident, and make fewer mistakes when programming?

Test First!

**[Bug Free Programs in 3 Easy Steps!](#)**

Doing these three simple steps leads to awesome programs and a good night's sleep.

Red, Green, Refactor.

**[The Shocking Secret to Testable Code](#)**

Find out how these design principles can make your tests short and reliable!

Test Seams and Dependency Injection!

**[Never Fall For These Testing Traps](#)**

Avoid these common but costly mistakes when designing your classes.

Global State and Excessive Branching.

**Prerequisites:** Basic understanding of programming and unit testing. (CS 150, 151)

## Free Pizza Included

Please sign up in the CSCI office King 223 by Mon Sept 28 Noon

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