

# What's the Big Deal About Test Driven Development?

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# Framing Question

- Test Driven Development is about...

Is it about...

**Testing**

Or is it about...

**DESIGN!!!!!!**



# Why is it important?

- *Test Driven Development preserves the right to **think** while typing — Ward Cunningham*

# Basic Process

- Think about what you're building
- Iterate
  - Pick one part of it and explore its design
  - Implement that one small part
  - Improve the internal design of the system

# Outside-In

- What is the problem I'm trying to solve?
- What's the smallest piece I could build?
- How will I know if it worked?
- What objects are involved?
- How do they talk to each other?

# Implement

- Simplest design possible
- Get to working code as quickly as possible



# Inside-Out

- Does this communicate its intent clearly?
- Is there any replicated code?
- Can I delete any of this?

What did I not mention?

**TESTING**

# TDD is a DESIGN Process

- Focus on external design and functionality
- Improve internal design
- Become tests *later*

# Example

- Employee Payroll System
  - Pay all employees on first of month
  - Pay no one if not first of month
  - Input format - Payday|Paydate
  - Output Format - Check|Name|\$Pay|CkNum|Paydate



# Your job

- Watch for me to put these rules into practice
- Ask lots of questions
- Play along at home
  - <http://github.com/bbutton/AgileGravy>



Brian Button is a long-time leader in the Agile Methodology space, having started coaching teams and individuals in 1999. He has taught classes around the world about all aspects of Agile, but Test Driven Development has always been his favorite.

During his long career, Brian has written code in many languages and systems, although, sadly, no one lets him write code anymore. He now spends his days as the Product Manager for the Application Services team at CenturyLink Cloud and enjoys every minute of it.

There is still that nagging feeling, that feeling that something is missing... code.

You can reach Brian so many different ways, and he is always happy to answer questions or help in just about any way he can. Feel free to drop him a note or a tweet at:

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