



# Why Do Developers Have Two Keyboards?

Mike Harris

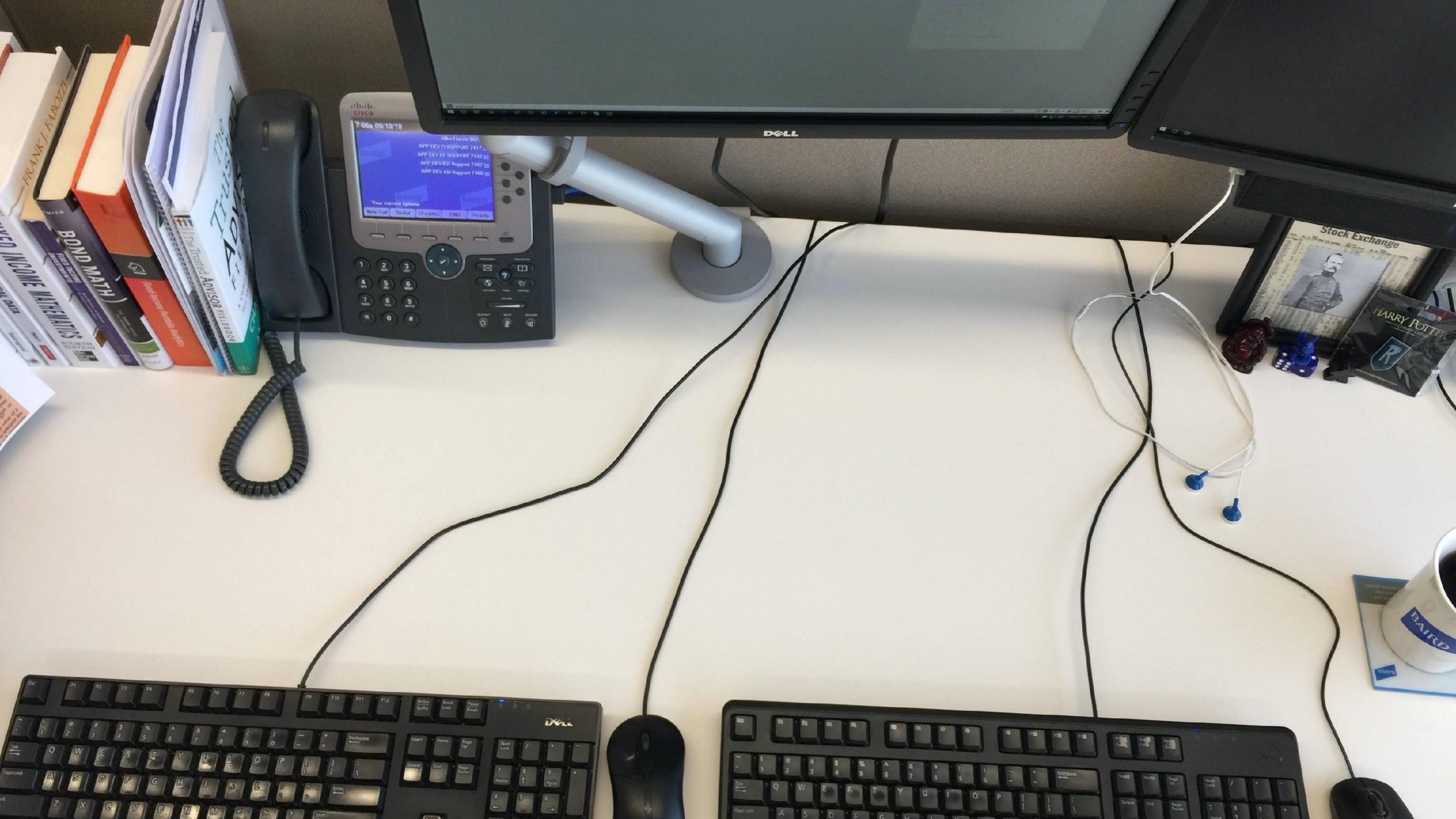




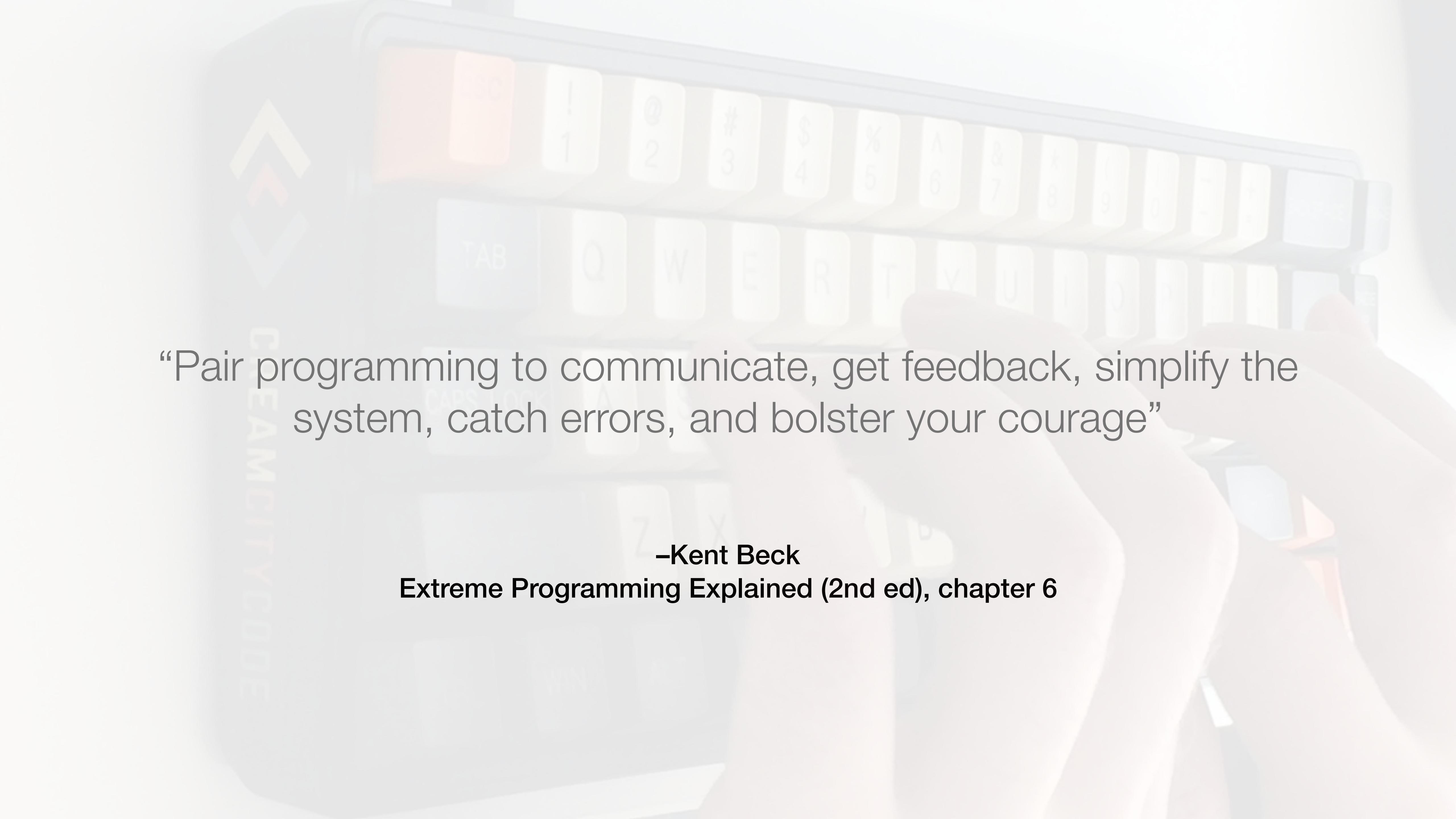
The background of the slide is a soft-focus photograph of an office interior. It shows several cubicles and desks arranged in rows. Each desk has a computer monitor, keyboard, and mouse. There are also other office equipment like printers and small potted plants. The overall atmosphere is that of a busy professional workspace.

“Why do developers have two keyboards?”

**-Kelsey Harris**





A person is shown from the side, working at a computer keyboard. The background is blurred, showing a keyboard and some text that appears to be "TEAM" vertically.

“Pair programming to communicate, get feedback, simplify the system, catch errors, and bolster your courage”

–Kent Beck

**Extreme Programming Explained (2nd ed), chapter 6**



# Summerfest

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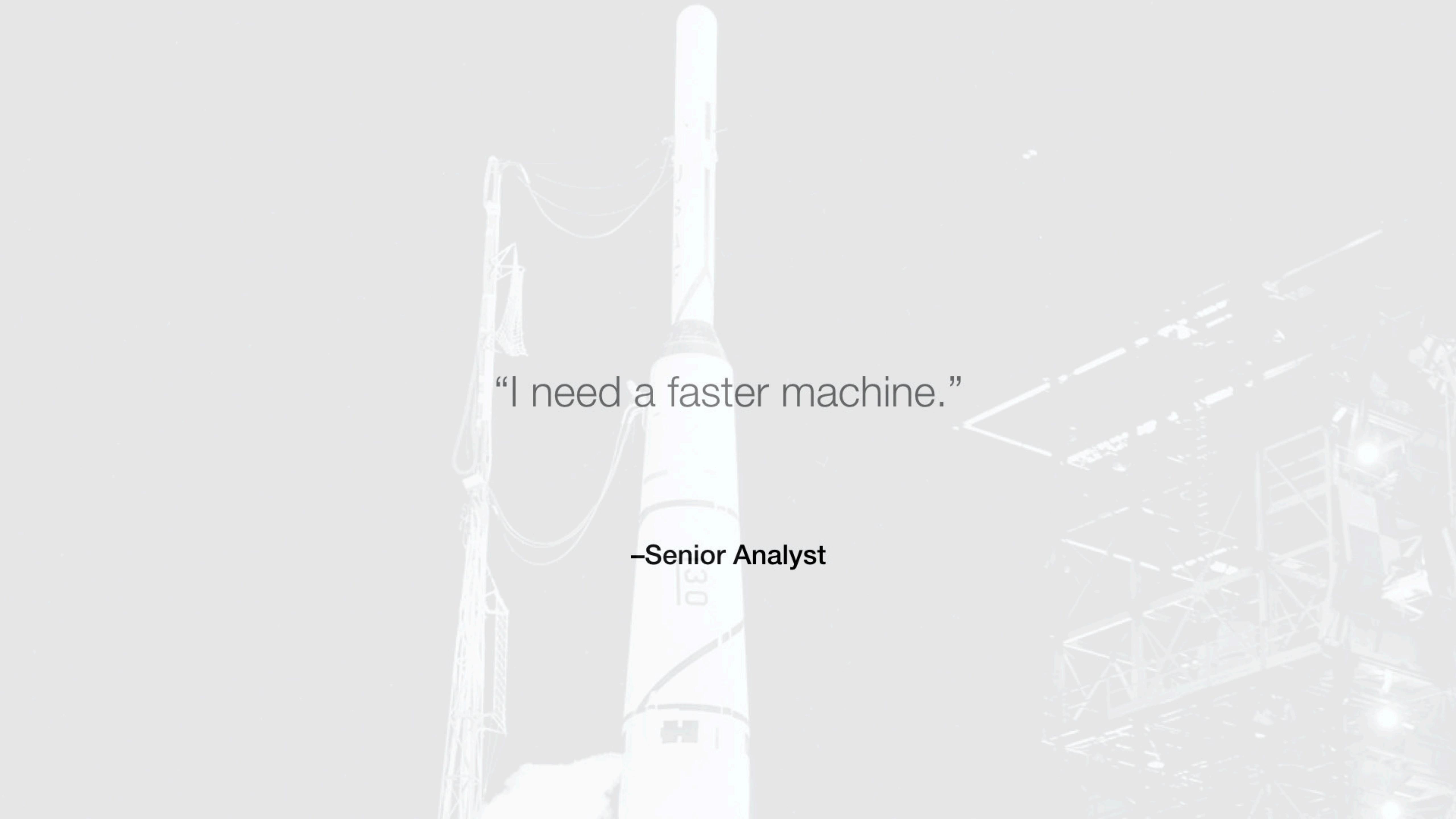


**EXIT ONLY  
DO NOT ENTER**

**EXIT ONLY**







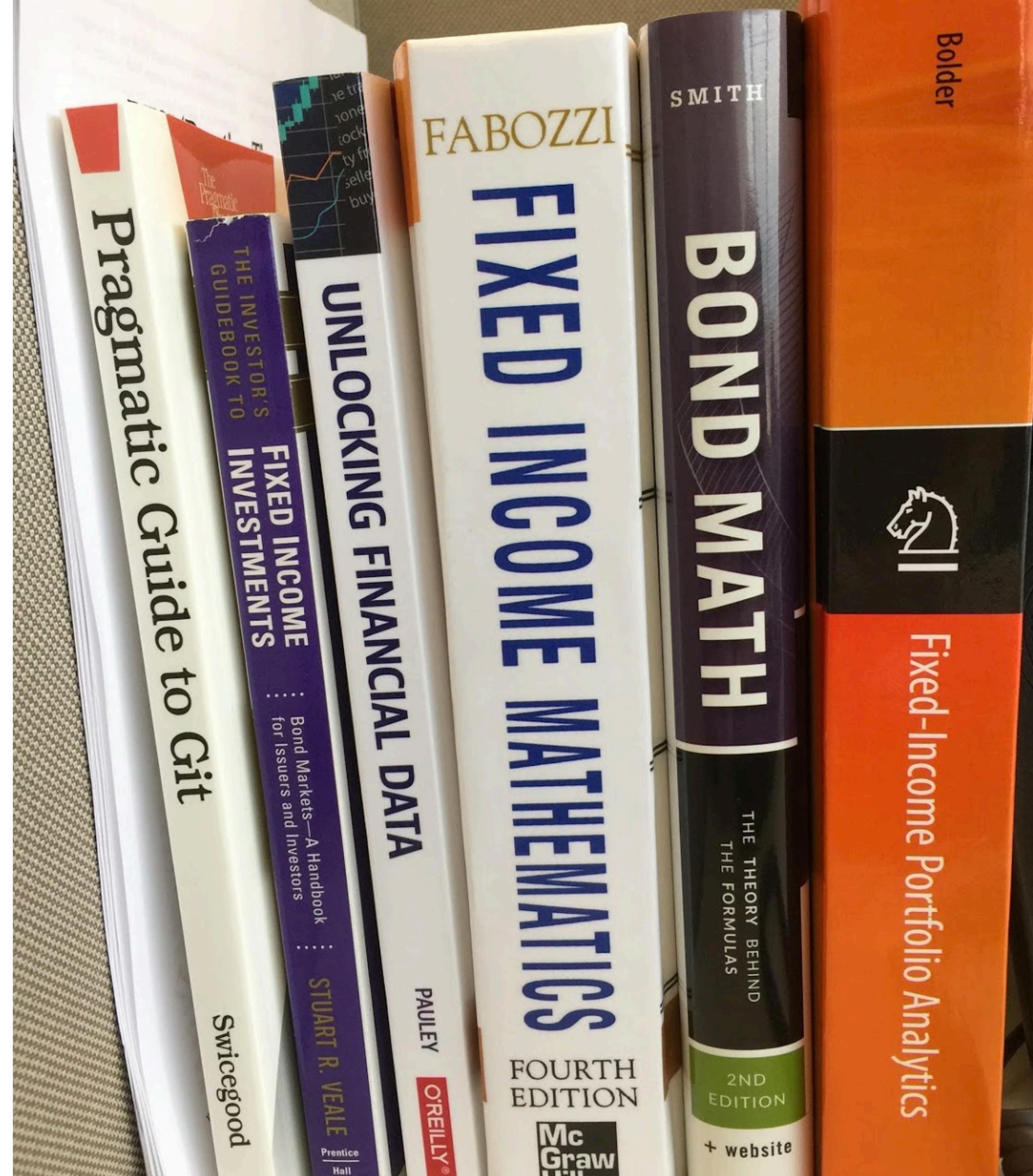
“I need a faster machine.”

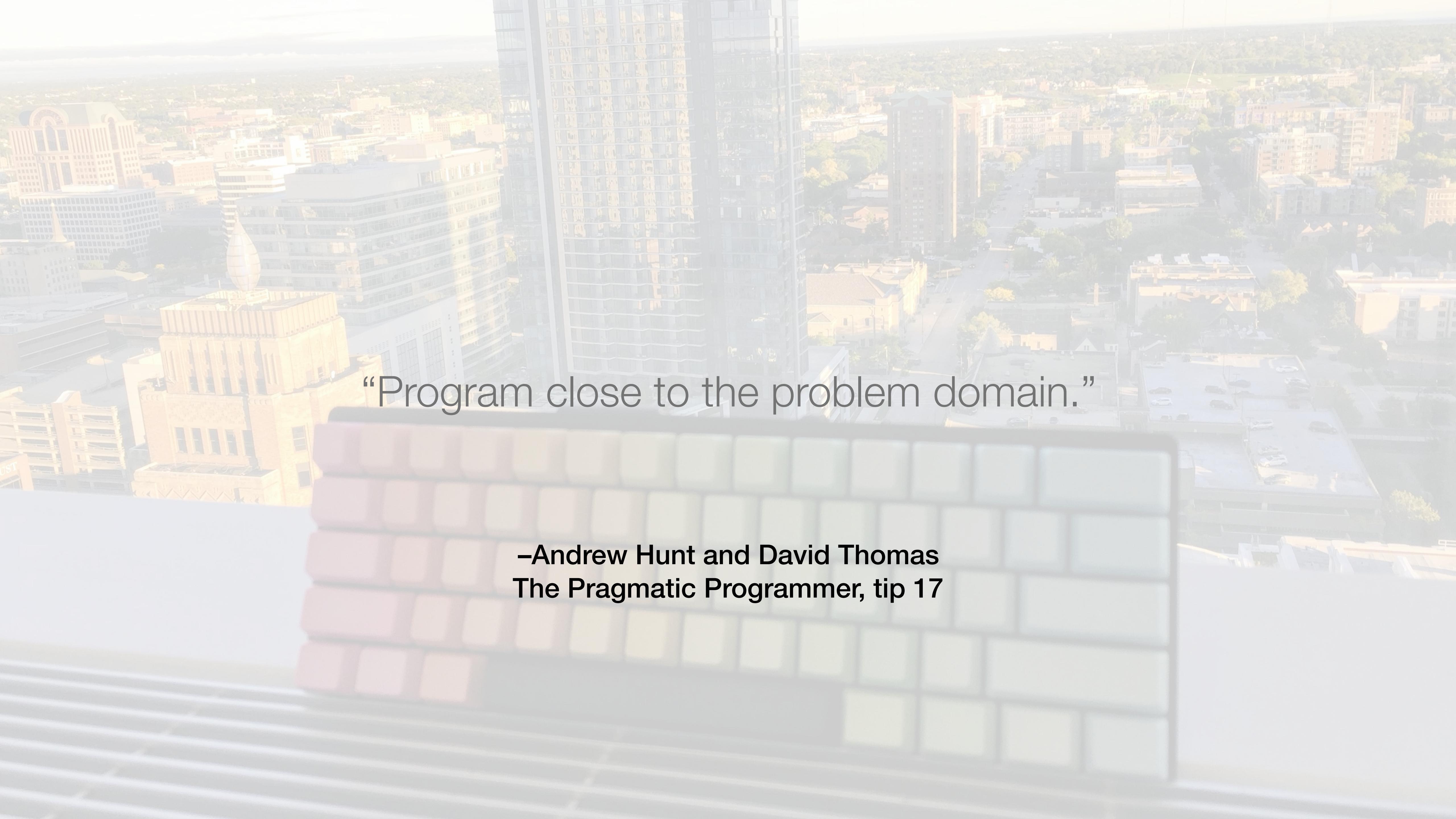
**-Senior Analyst**

# My desk at work

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“Did in great Ilium thus translate him to me.”  
—William Shakespeare, Troilus and Cressida  
Act IV, Scene V, Line 112

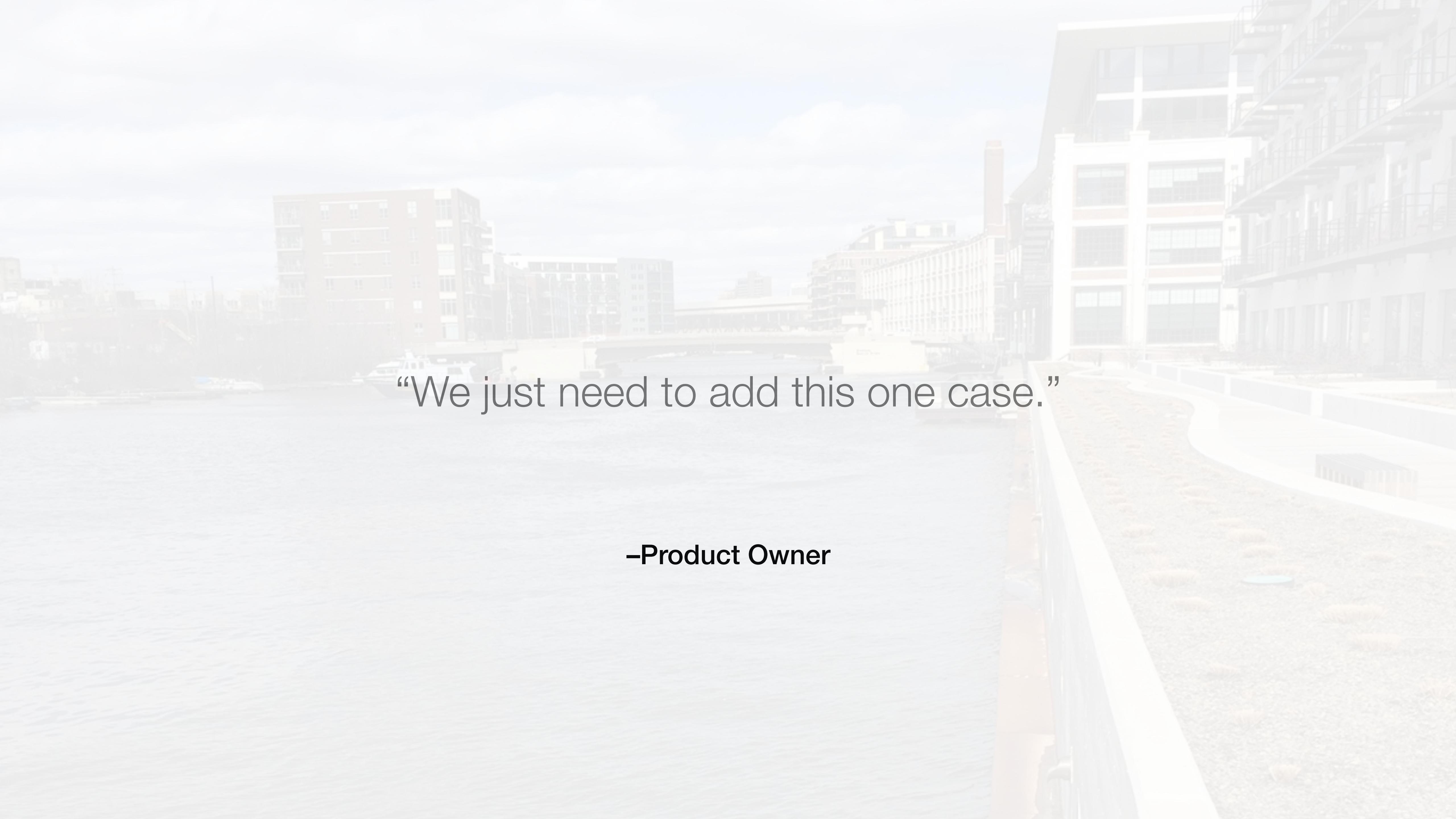




“Program close to the problem domain.”

—Andrew Hunt and David Thomas  
The Pragmatic Programmer, tip 17

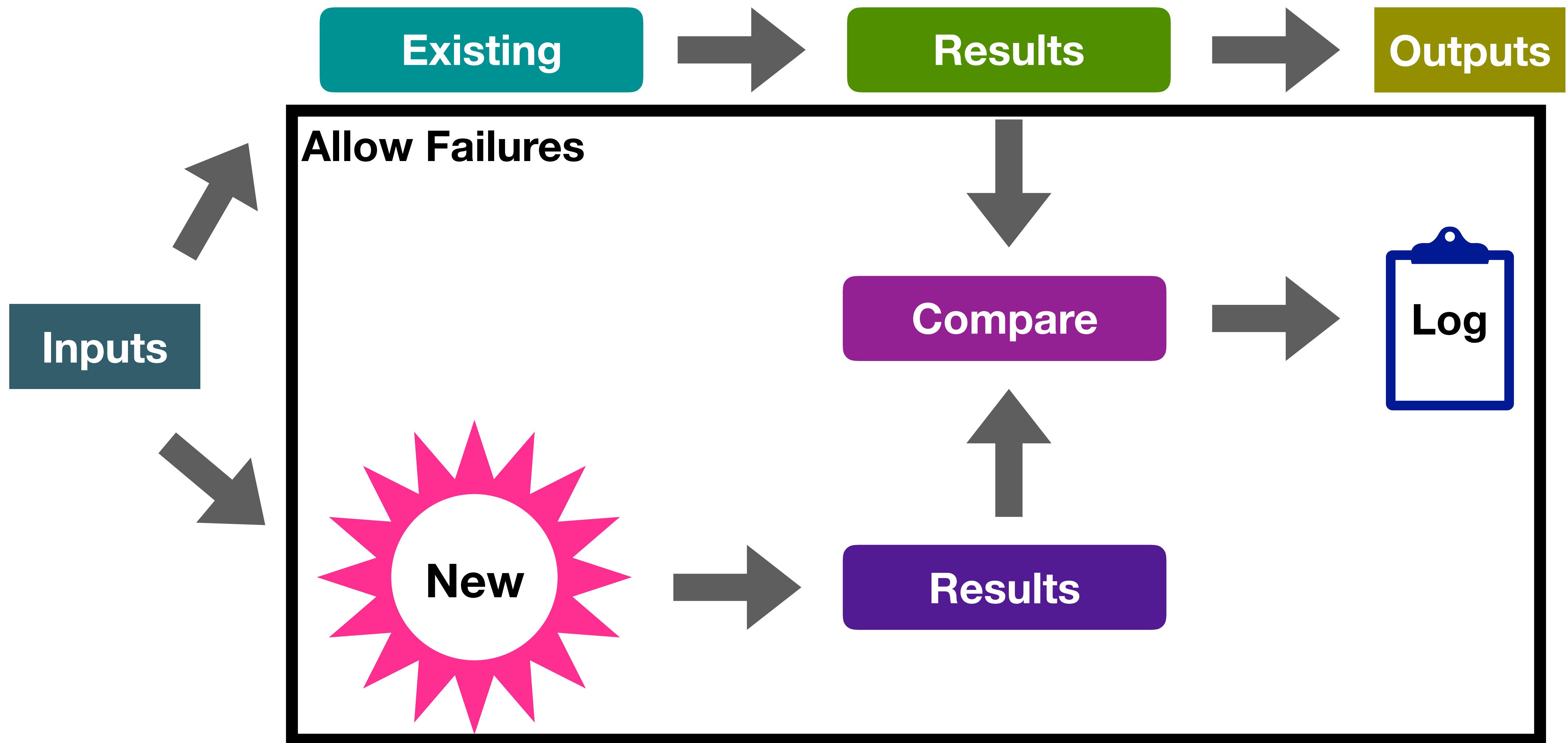


A grayscale photograph of a modern urban landscape. In the foreground, there's a curved, textured wall or barrier. Beyond it, a river flows through the city. On the opposite bank, several multi-story residential buildings with balconies are visible. A large, multi-level bridge structure spans the river in the background. The sky is overcast.

“We just need to add this one case.”

**–Product Owner**

# Testing in Production pattern



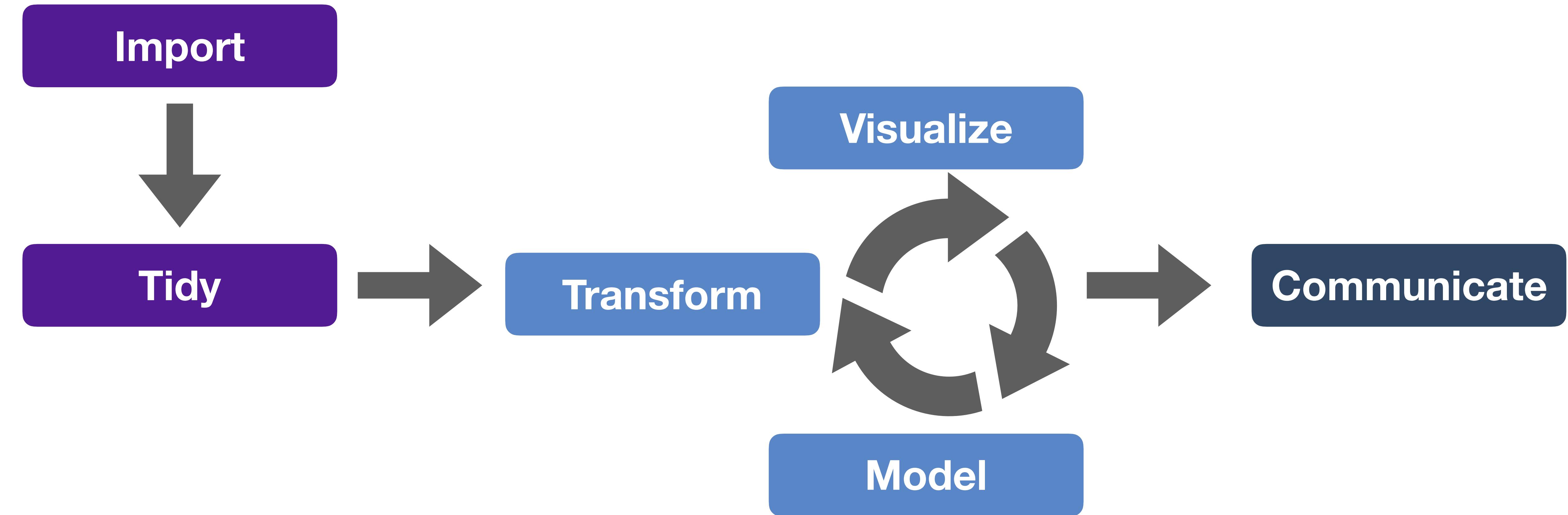


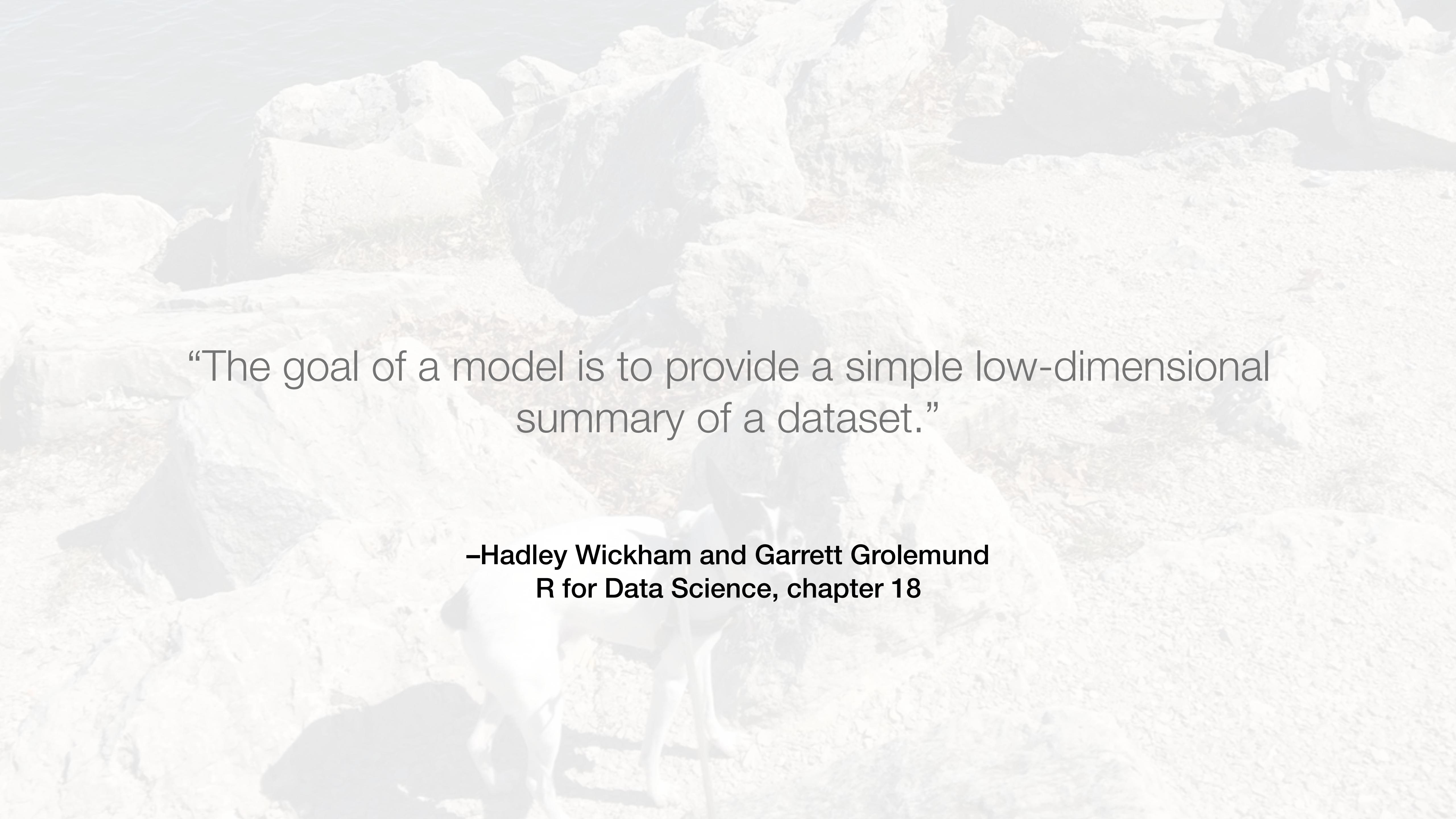


This is not a pipe.

The Treachery of Images  
by René Magritte

# Data Science pattern

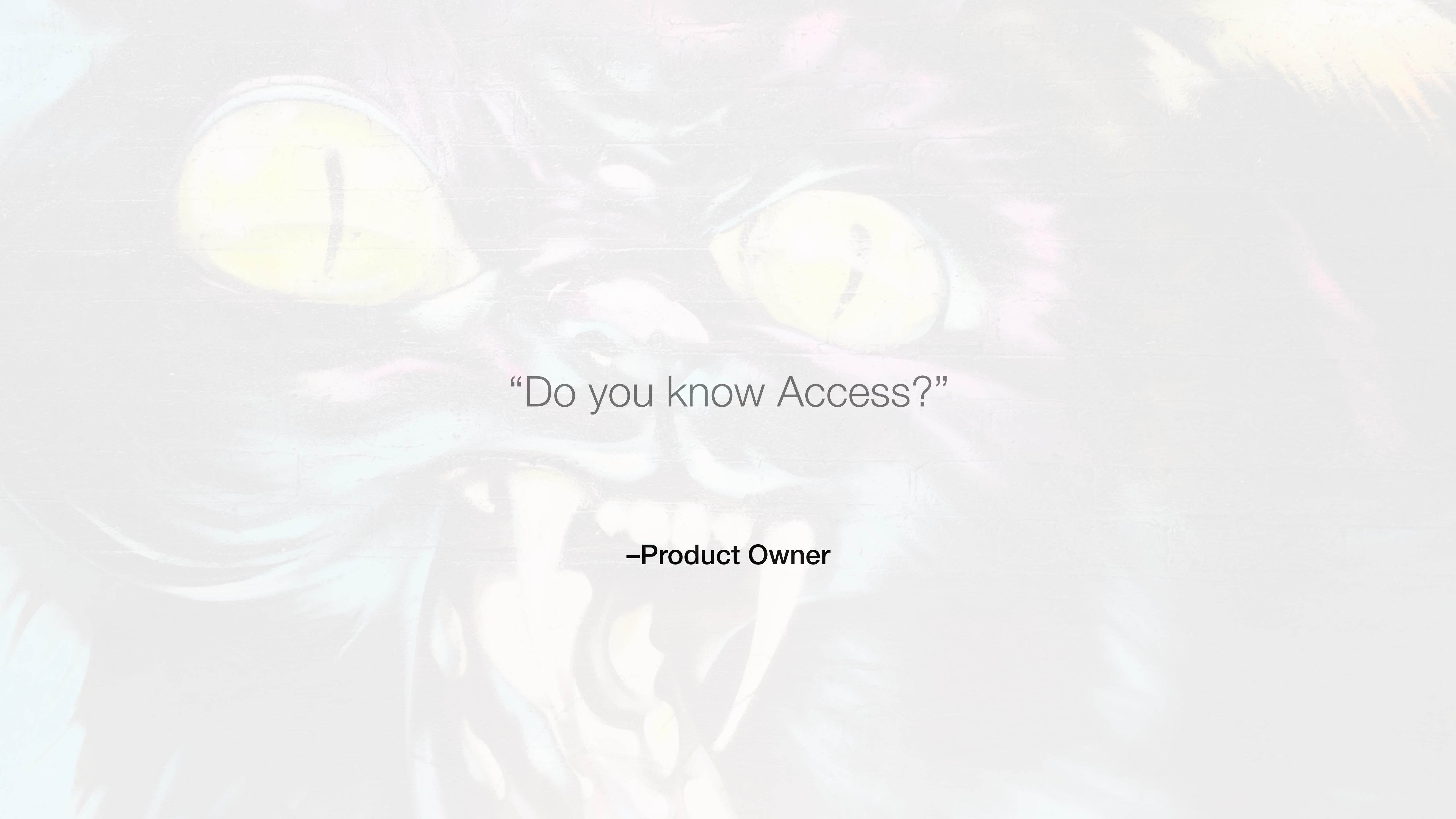


A black and white photograph of a rugged mountain range. The peaks are covered in patches of snow and dark rock. The lighting creates strong shadows, emphasizing the texture of the mountain faces. The foreground shows more rocky terrain.

“The goal of a model is to provide a simple low-dimensional summary of a dataset.”

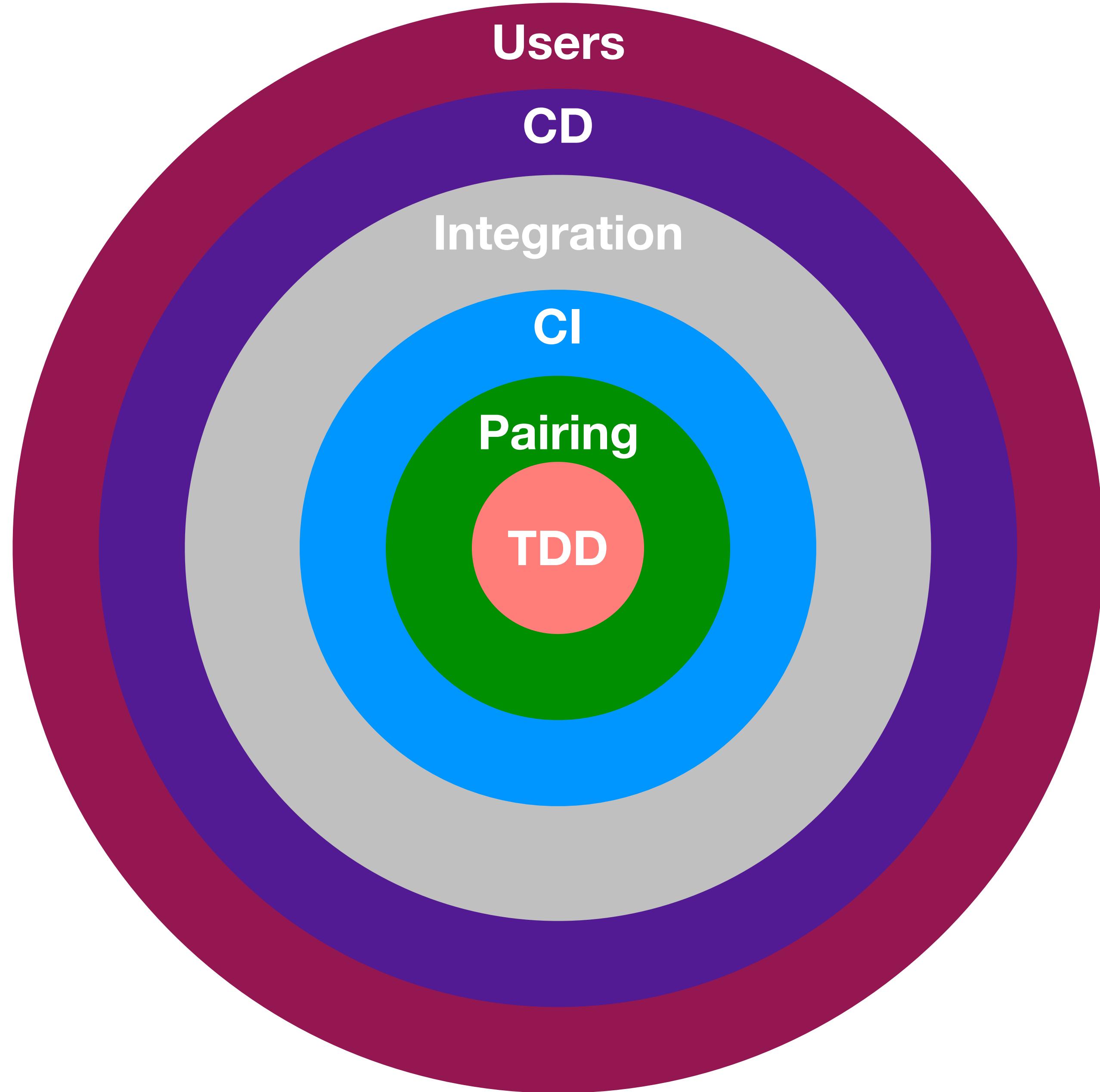
**-Hadley Wickham and Garrett Grolemund  
R for Data Science, chapter 18**

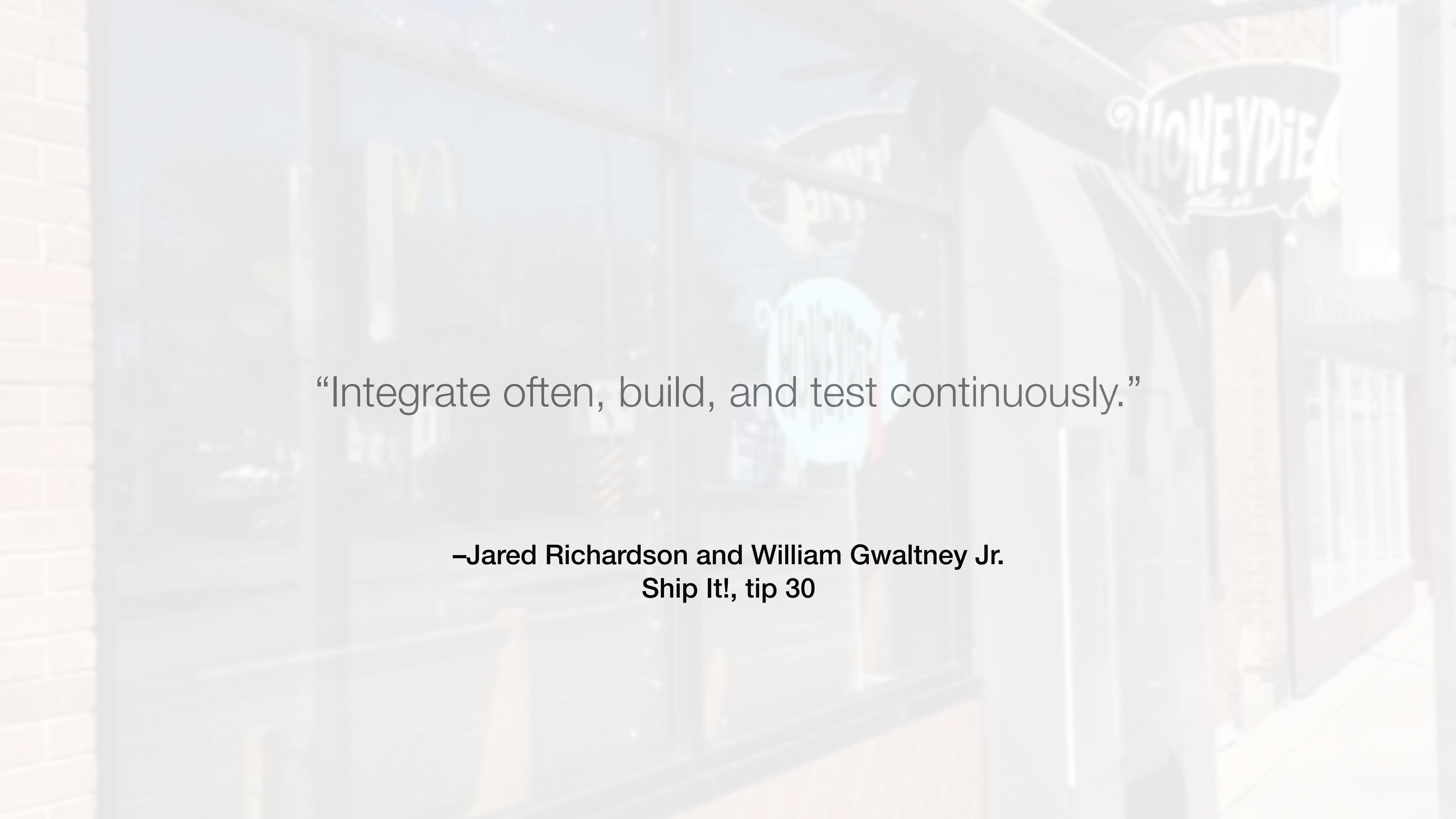




“Do you know Access?”

**-Product Owner**



A grayscale photograph of a person's hands typing on a laptop keyboard. The laptop screen displays a dark interface with a prominent white rectangular sticker in the center that reads "SHIP IT!" in bold, uppercase letters.

“Integrate often, build, and test continuously.”

–Jared Richardson and William Gwaltney Jr.  
Ship It!, tip 30



# Takeaway

**Find ways to add more feedback.**

**Thank you  
Mike Harris**

**Why Do Developers Have  
Two Keyboards?**

**@MikeMKH**



# Images

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- [Evan Douglas' keyboards and view of lake front from the US Bank building] taken by me
- [Vegan Tacos] taken by me
- [Adam Wolff's desk at work] taken by Adam Wolff
- [Evan Douglas' desk at work] taken by me
- [My desk at work] taken by me
- [Mark Dreyer's keyboard and hands] taken by me
- [Summerfest gates] taken by me
- [Milwaukee skyline] taken by me
- [Pioneer 1] by NASA - NASA flickr, Public Domain, <https://commons.wikimedia.org/w/index.php?curid=6463394>
- [Desk books] taken by me

# Images

- [Casey Stehlík's keyboard and view of the Gas Light building] taken by me
- [Milwaukee River] taken by me
- [This is not a Pipe by René Magritte] image taken from a University of Alabama site, "Approaches to Modernism": [1], Fair use, <https://en.wikipedia.org/w/index.php?curid=555365>
- [Jack at the water front on the Summerfest grounds] taken by me
- [Black Cat Alley by @glawecoma] taken by me
- [Honeypie Cafe] taken by me
- [Me at StrangeLoop] taken by Kelsey Harris
- [Evan Douglas' keyboards and view of lake front from the US Bank building] taken by me
- [Charlie Sweet's keyboard and a view of the old Northwestern Mutual building] taken by me
- [Comet Cafe] taken by me