

Technical Philosophy

Modern Front-End Development

The Plan

We will look at:

- * Some terminology.
- * Some of the most important values in software development, especially in front-end development, and how we can strive to achieve them.
- * Some examples of things we can learn through failure and some of my favorite hash tags. #UX #UXFail
- * An embarrassingly incomplete project in progress—the good, the bad, and possible improvements.

What do I mean by "technical philosophy"?

Software development is not just about what we do or how we do it, but about what we value.

Technical philosophy is what we value—why we do what we do.

It is informed by business objectives, but not necessarily limited by them.

What makes modern front end development "modern" and "front-end"?

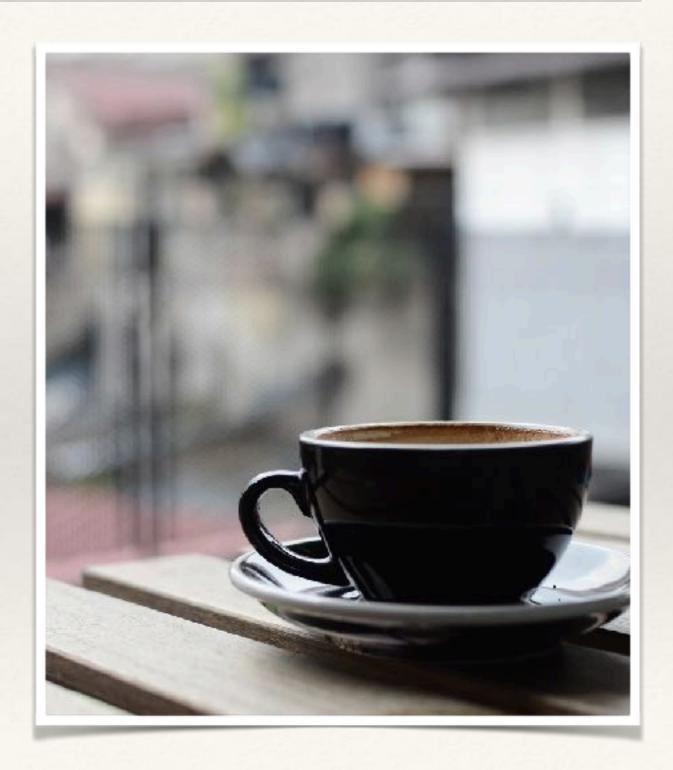
- * Modern front-end development differs significantly from what it was just a few years ago, especially with regard to tooling, workflow, and emphasis on user experience and testing.
- * As front-end development is concerned with the elements of software that are the closest to users, it is *not* just about programming—it also involves various kinds of design.

Values

Some common values in software development:

- * user experience
- * quality
- * productivity
- * efficiency
- * security
- * modularity
- * reusability
- * separation of concerns
- consistency (e.g., functionality, design, message, or branding)
- * profitability

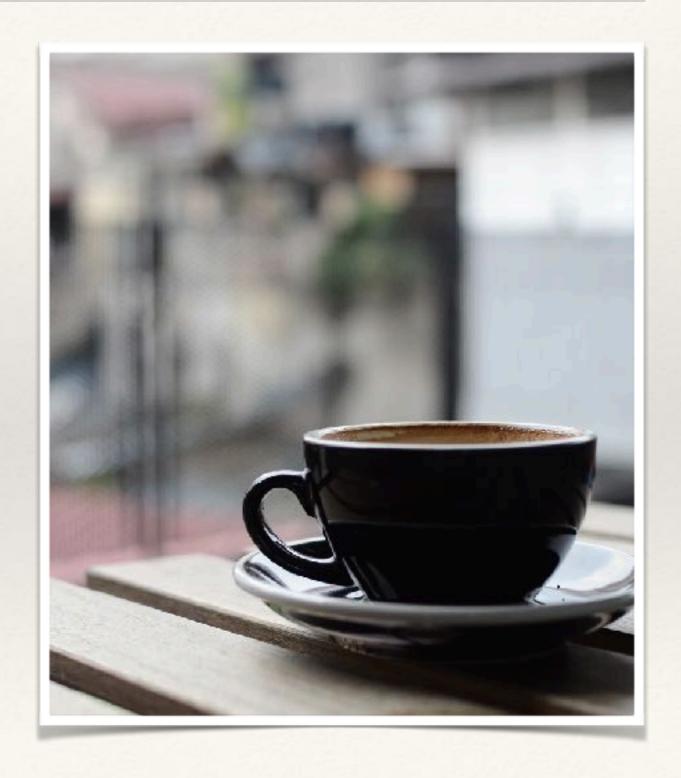
There is, of course, some overlap across different values!

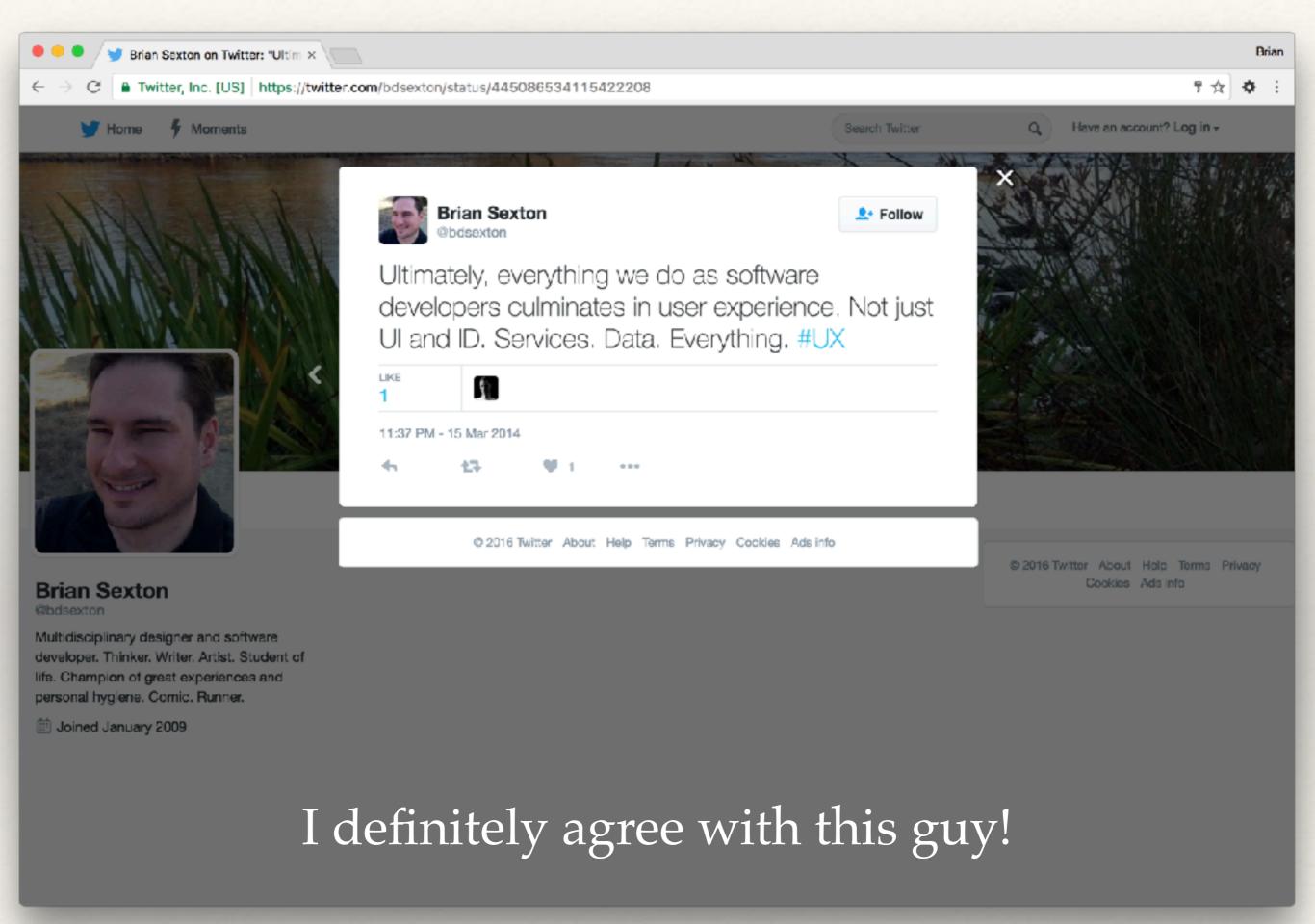


Values

In modern front-end development, the same values are common, but priorities do tend to differ somewhat from those in back-end and middleware development.

- 1. user experience
- 2. user experience
- 3. user experience
- 4. user experience
- 5. user experience

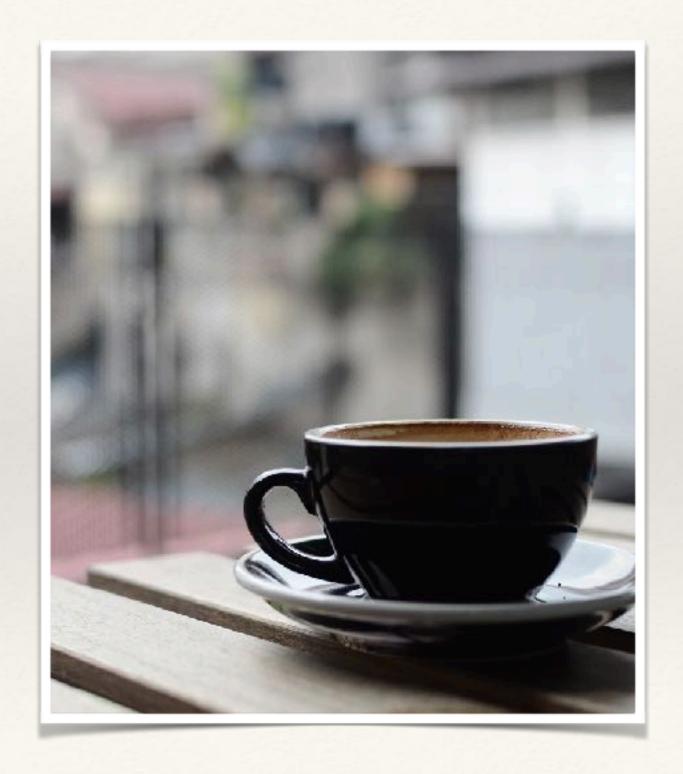




Values

OK, OK... let's consider those things from earlier.

- * tooling
- * workflow
- * user experience including responsiveness and accessibility
- * testing



"I think we're seeing the emphasis shift from valuing trivia to valuing tools."

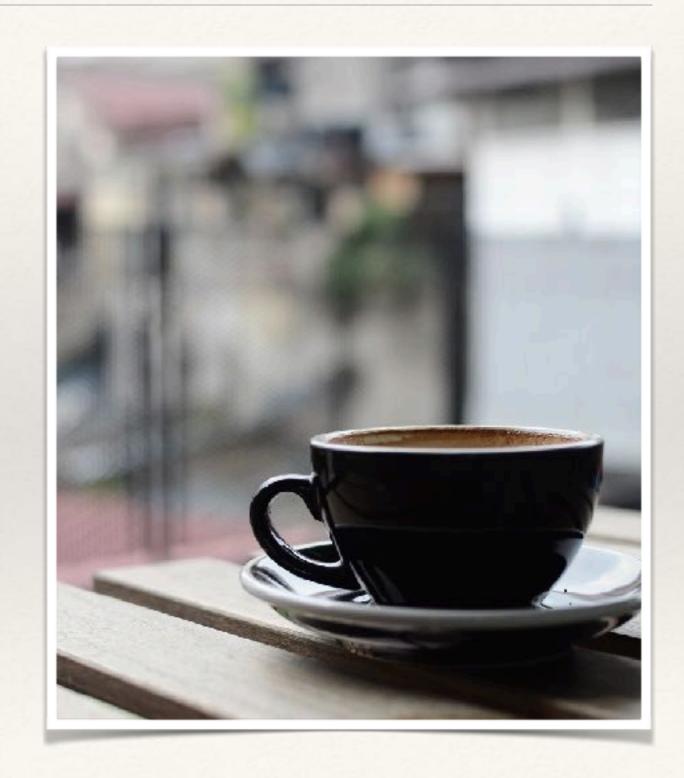
- Rebecca Murphey *

* From "A Baseline for Front-End Developers", http://rmurphey.com/blog/2012/04/12/a-baseline-for-front-end-developers

Tooling (and Related Resources)

Modern front-end development tooling includes:

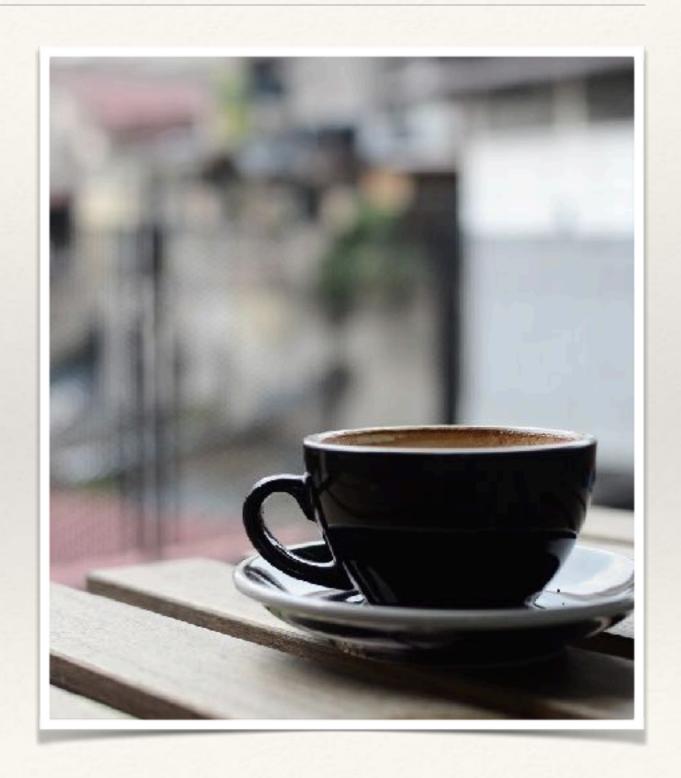
- better text editors and IDEs
- * Node.js
- * task runners (e.g. Grunt and Gulp)
- processors (e.g., LESS, SASS, uglify, cssmin, and htmlmin)
- * HTML, CSS, and JavaScript frameworks (e.g., Bootstrap and AngularJS)
- cross-platform development kits (e.g., Electron and PhoneGap/Rancho Apache Cordova)



Workflow

A modern front-end development workflow may include:

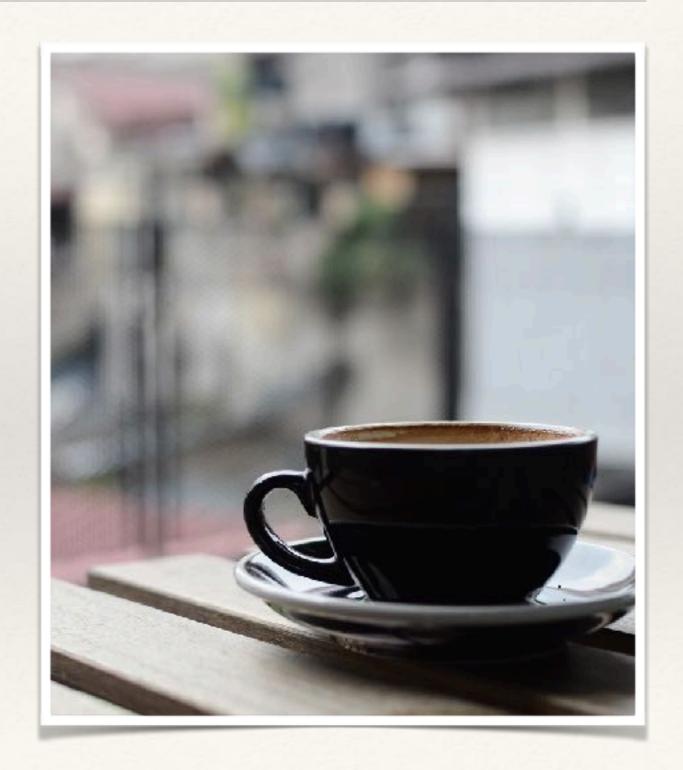
- * building?!
- processing (e.g., CSS extension, JavaScript minification, and image resizing)



User Experience

This really is the most important thing! Good UX is a worthy principle in its own right, but it is also good for business.

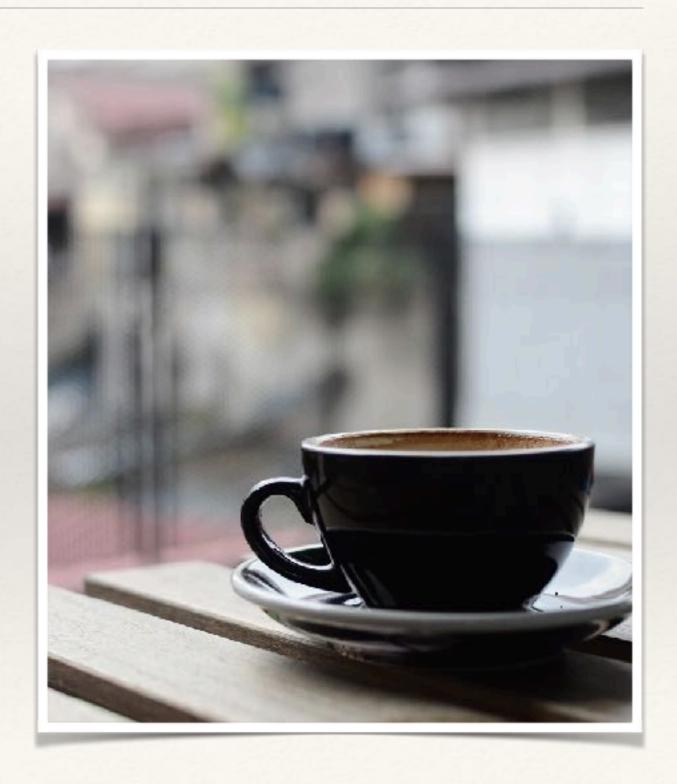
- * Happy customers are more likely to be repeat customers.
- * Passionate customers are more likely to advocate products and services—*free advertising!*

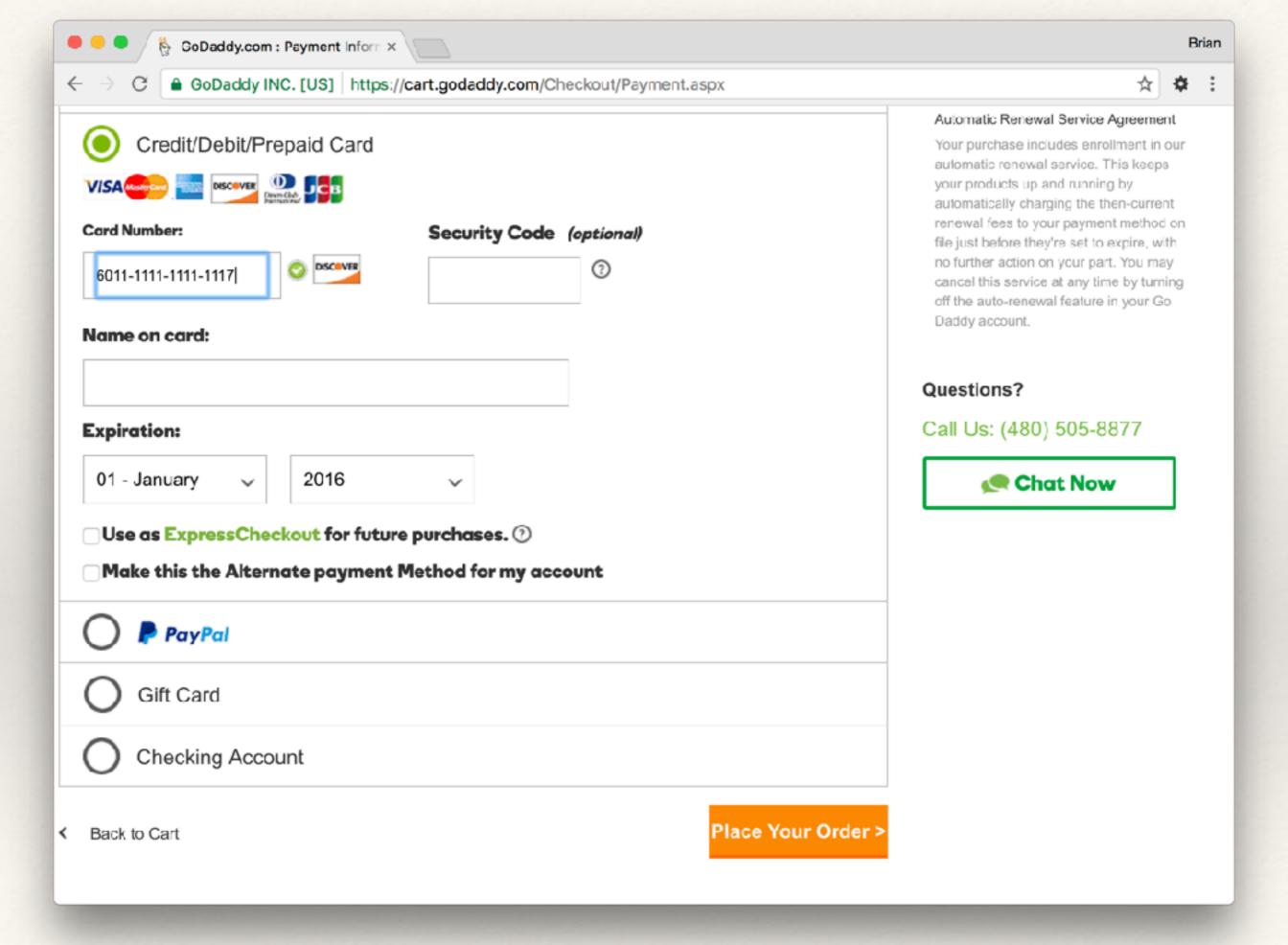


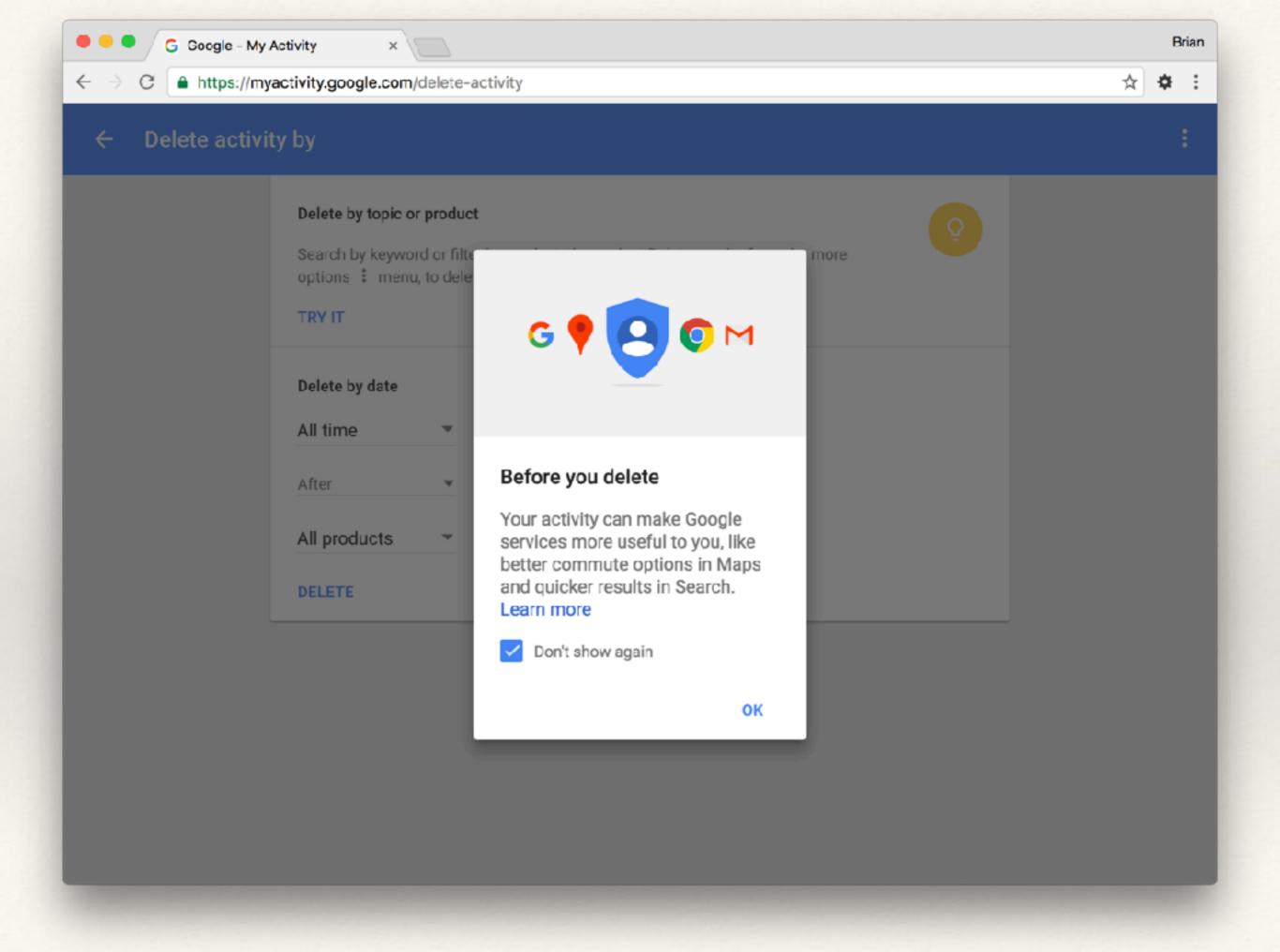
User Experience

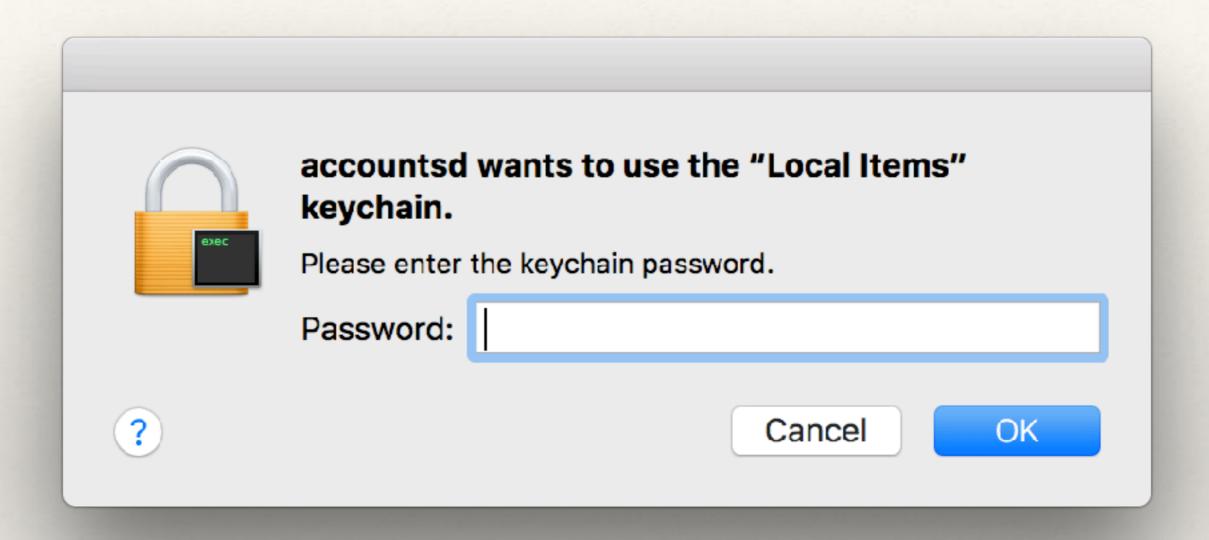
Good user experience is about doing things well, but also about paying attention to what has not been or is not being done well.

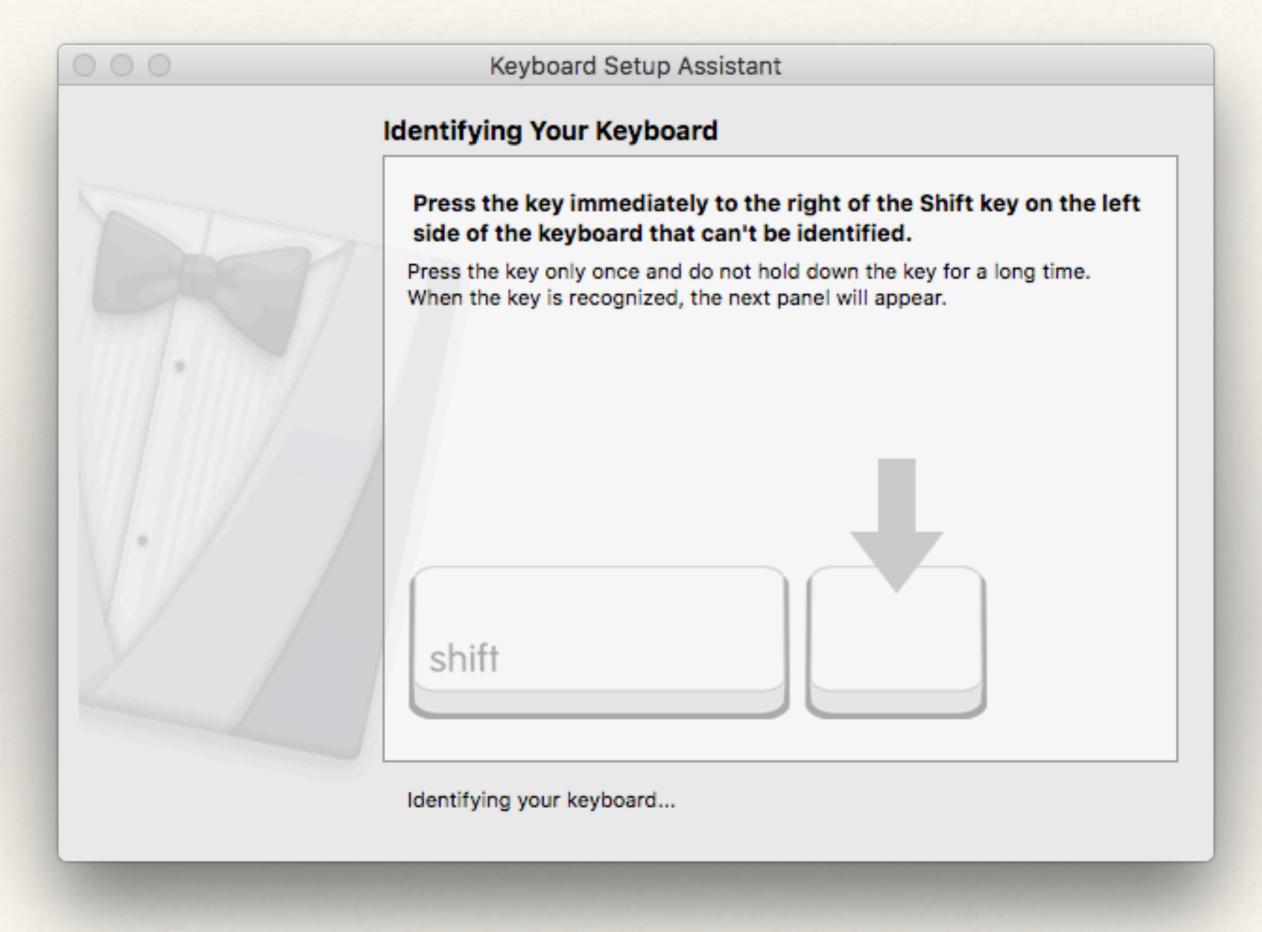
- * #UX
- * #UXFail

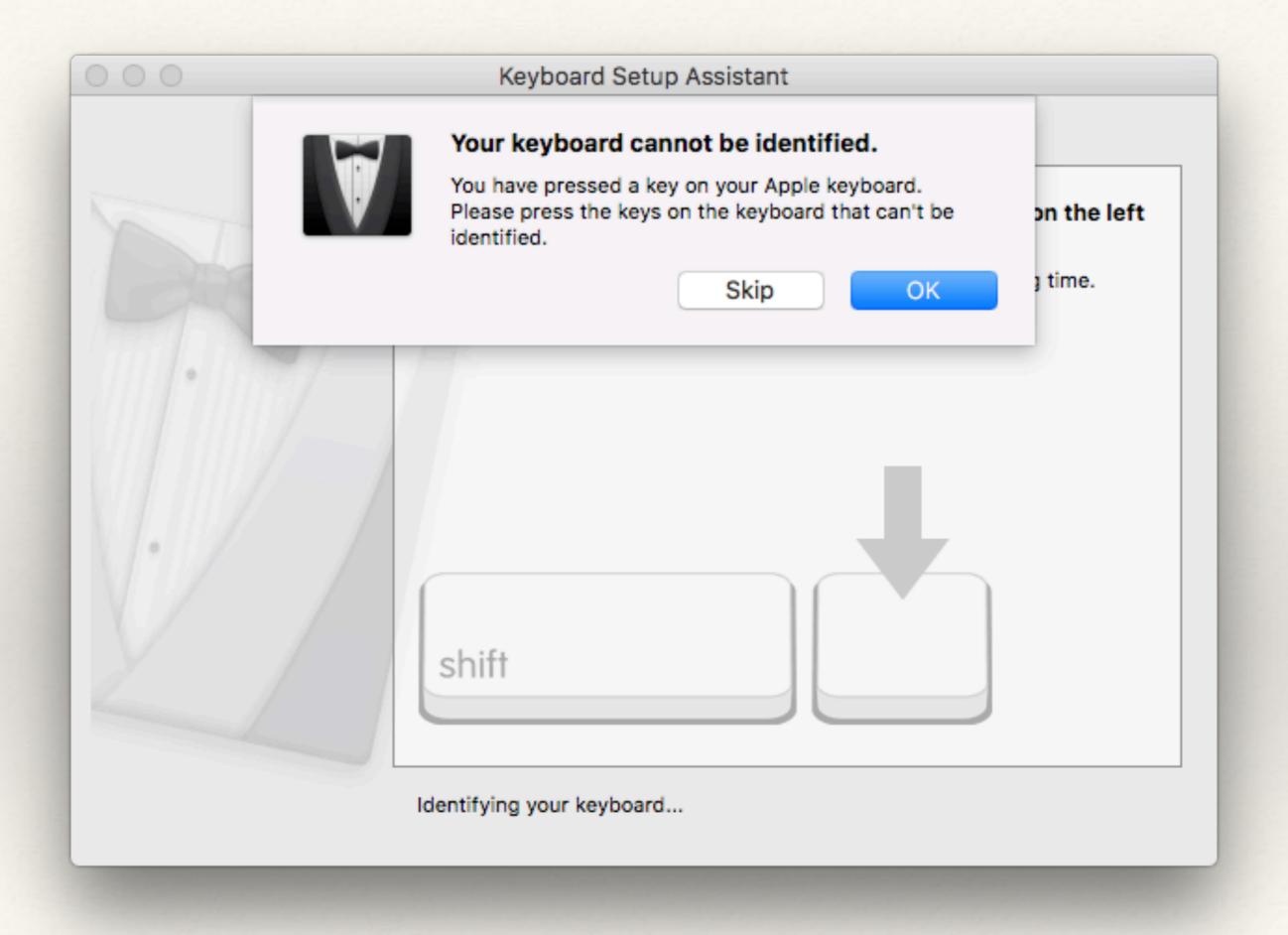














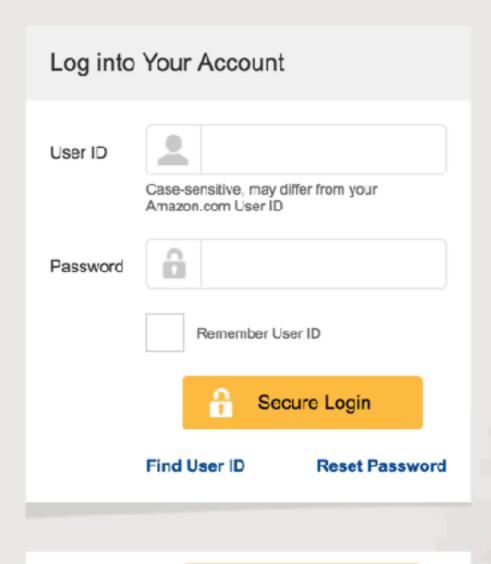
Chat for Login or Registration Help







Manage Your Amazon.com Store Card or Amazon Prime Store Card Account Online





Enjoy 24/7 conveniences of online account management

- Learn how to earn 5% back with the Amazon Prime Store Card
- · Special financing available
- Visit www.amazon.com/storecard for more information

First Time?



Register

Your Amazon.com Store Card or Amazon Prime Store Card is issued by Synchrony Bank. The Synchrony Bank Privacy Policy governs the use of the Amazon.com Store Card and Amazon Prime Store Card. The use of this site is governed by the use of the Synchrony Bank Internet Privacy Policy, which is different from the privacy policy of Amazon.com.



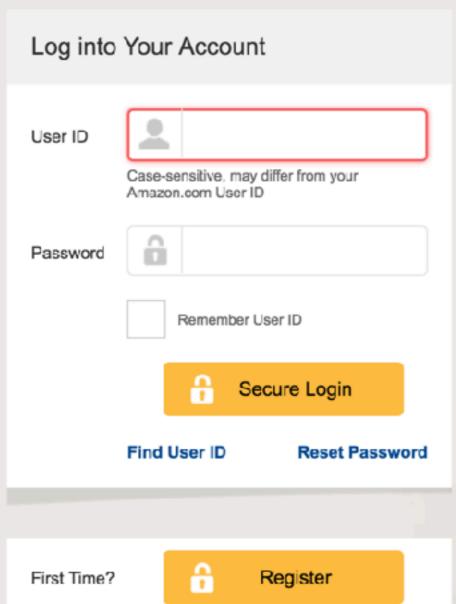
Chat for Login or Registration Help







Manage Your Amazon.com Store Card or Amazon Prime Store Card Account Online





Enjoy 24/7 conveniences of online account management

- Learn how to earn 5% back with the Amazon Prime Store Card
- Special financing available
- Visit www.amazon.com/storecard for more information





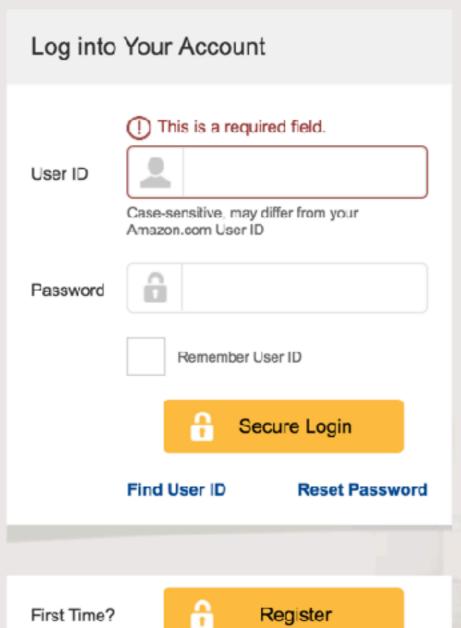
Chat for Login or Registration Help







Manage Your Amazon.com Store Card or Amazon Prime Store Card Account Online





Enjoy 24/7 conveniences of online account management

- . Learn how to earn 5% back with the Amazon Prime Store Card
- Special financing available
- Visit www.amazon.com/storecard for more information







Dear Brian,

Recently, we sent you an invitation to complete a Guest Satisfaction Survey regarding your stay at Quality Inn & Suites in La Vergne, where you checked out on August 11, 2016.

If you would like to share your feedback about your stay, please click on the web address below. If that does not work, please copy and paste the entire web address into the address field of your browser. You will also have an option to post a review for this hotel on choicehotels .com.

http://survey.medallia.com/?et56cnk97xdwf8ckvwhmht

Your feedback is very important to us, and we look forward to hearing about your stay with us.

Michael Thompson Director of Customer Care Quality



Please do not 'Reply' directly to this invitation.

Technical assistance: Should you need help accessing or completing this survey, please visit: surveysupport.medallia.com

To unsubscribe: We rely on feedback from guests to ensure that your hotel stay meets and exceeds your expectations. If, however, you prefer not to receive a survey invitation in the future, you may unsubscribe by clicking this link: http://survey.medallia.com/?et56cnk97xdwf8ckvwhmht&reject=yes

For all other requests, please visit http://www.choicehotels.com

Accessibility

Accessibility is part of user experience, but it deserves its own mention.

A Personal Accessibility Pet Peeve: Conveying information solely or primarily through color.



"Colour (color) blindness (colour vision deficiency, or CVD) affects approximately 1 in 12 men (8%) and 1 in 200 women in the world."

- Colour Blind Awareness *

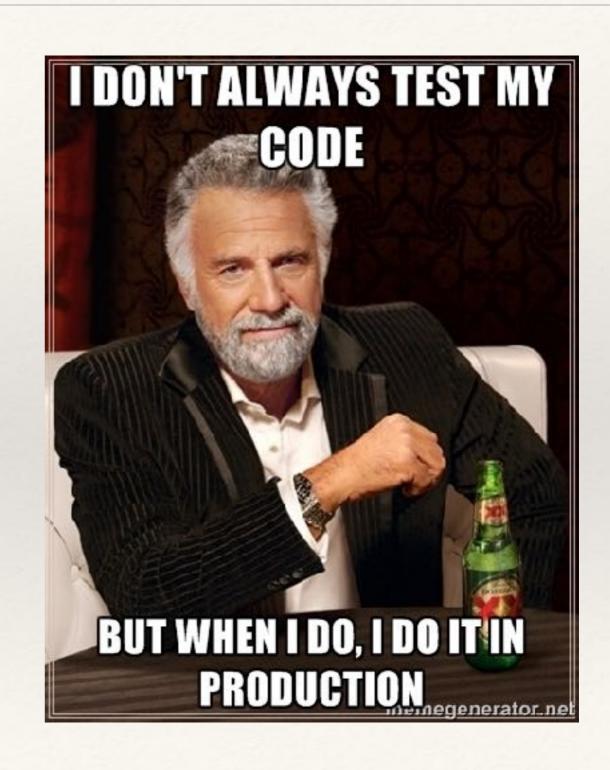
* From "Colour Blind Awareness", http://www.colourblindawareness.org/colour-blindness/

Testing

Testing is kind of important!

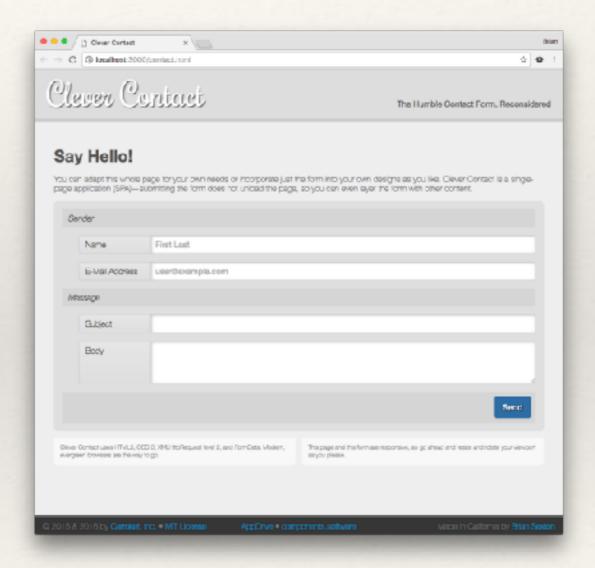
- code-quality checking during development
- manual in-browser change, save, maybe upload, test
- browser dev tools standard and add-on (e.g.,
 Web Developer Toolbar, Firebug, and Postman)
- browser console JavaScript jiggery-pokery and even custom commands
- system console
- automated testing via local task-runners, on integration servers, or both

Some tools span contexts. E.g., Browsersync can be run from the system console or from a task runner such as Grunt and it offers an in-browser interface.



Clever Contact

The humble contact form is something that pretty much every Web site can use and it serves as a reminder that we can often benefit from taking a new look at an old problem.

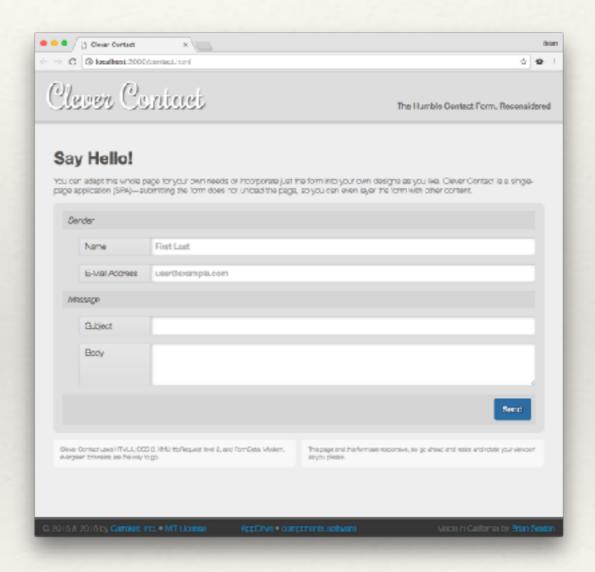


"If it ain't broke, don't fix it."

No Front-End Developer Ever

Clever Contact

Let's look at it now...



Conclusion

In modern front-end development, is not enough for software to meet functional requirements or satisfy business objectives.

It should do both of those things, but it should do so in the ways that best represent the technical philosophy of the publisher.

Ideally, that should mean delivering software that users love to use.

- * easiest to use
- best organized/most obvious
- * most efficient
- * fastest
- * most secure
- most pleasing look, feel, etc.