

# Website Design Considerations

## Best Practices and Trends

---

Neha Goyal, Web Developer, AEI  
May 23, 2017



# AGENDA

---

1. Beyond Metrics
2. Website Goals
3. Design Systems
4. Website Performance
5. Beyond Visual Norms

# Beyond Metrics

# Blind to our Minds?

---

- We look at nutrition facts and still eat that bag of Doritos
- We look at Google Analytics and still build that “feature”
- Our access to data has evolved, our brains haven't

# Surveys

---

- Survey is a dangerous research tool to design a system
- The Hawthorne Effect
- People want to appear smart on the survey

# Quantitative v Qualitative Data

---

- Numbers are meaningless without answering the right qualitative questions
- Measuring customer satisfaction is misleading based only on quantitative data
- Split testing (A/B) won't always give you a new and better solution
- How to gather insights
  - User interviews, Focus Groups, Card sorting, Eyetracking tests, Usability testing

# Website Goals

# Personality of a Website

---

- Get user from point A to point B as seamlessly as possible without breaking context
- Research shows that we subconsciously think of a computer as a person and expects them to learn our behavior
- Smart Branding and Storytelling



# User's Goals

---

- Does the website captivate me?
- Is it useful/ helpful/ provide me value?
- Is it easy to navigate?

# Organization's Goals

---

- What do our customers and stakeholders love?
- What makes us money?
- What makes us stand out?

# Design Systems

# WHAT ARE DESIGN SYSTEMS

---

- Little parts that fit together to form an unlimited amount of templates
- Building with Legos and establishing modularity
- Enhances consistency and maintainability of a project

# SHARED VOCABULARY

---

- Talk to people in terms they understand
- Making it a part of everyday culture
- Helps in collaboration

# CONTENTS OF A DESIGN SYSTEM

---

- Typography, Color, Iconography, Code
- Information Architecture
- Editorial
- Accessibility
- Social Media Guidelines

# Examples



Overview

Visual Design

Interaction Frameworks

Layouts

Navigation

Content & Data

Communication

Forms & Controls

Discovery

Voice and Tone

Logo Kit for Developers

# The Harmony Design System

Intuit employees, please go here: [design.quickbooks.com](https://design.quickbooks.com)



Harmony is a living design system that unites Intuit's small business products, brand and marketing experiences across devices and ecosystem. Here is where you'll find guidance, information and resources for creating delightful experiences.



# Design Patterns

Patterns are a simple, reusable solution to a design problem.

FILTER: All **Web** App



## Accordion

An Accordion is a simple way of showing, hiding and breaking down content.

v1 13 Jul 2016



## Cards

Cards allow you to quickly preview and share content, without the need to leave the page you're on.

Updates 2 Jun 2016



## Carousel

A carousel is a great way to view lots of content in a limited amount of vertical space.

Updates 13 Oct 2016

# CASE FOR STYLE GUIDES

---

1. Develop new features faster
2. Savings of time and resources
  - Instead of designing a widget for the 15th time, it's already done
3. Tested and proven solutions to design problems

SIGN ON



Maximize Cash Flow

Raise Capital

Mitigate Risk

Go International

Learn More >

Sign on to PINACLE® >

What is PNC Purchase Payback

How PNC Purchase Payback Works

Get Connected >

GET RATES

▶ Enroll Mobile Device

Get Started >>

Sign On

Next Step

Learn More >>

Add Reminder

Search Transactions

Export All

Print Spend

Print Reserve

Check Rates >

Savings History

Customize Your Pig

Add

Sign On ▶

Continue

Search >

Go

CLEAR

SUBMIT

Apply Now >

+ Add transaction

Show Bars

GO >

▶ Rate Virtual Wallet

Sign On >

▶ Share Your Story

Set Payday

Try Again

Sign Up for V.me

Learn More >

Learn More >>

# AEI INTERFACE INVENTORY

---

Read bio

Read More

RSVP

Post Comment

READ MORE

Register Now

Refine Results

Read More

Subscribe

Read More



Grid System

Typography

Form Elements

Navigation

Tables

Lists

Slats

Stats/Data

# Form Elements

Buttons

Select

Inputs

Field help

Checkboxes & Radios

## *Buttons*

### Example

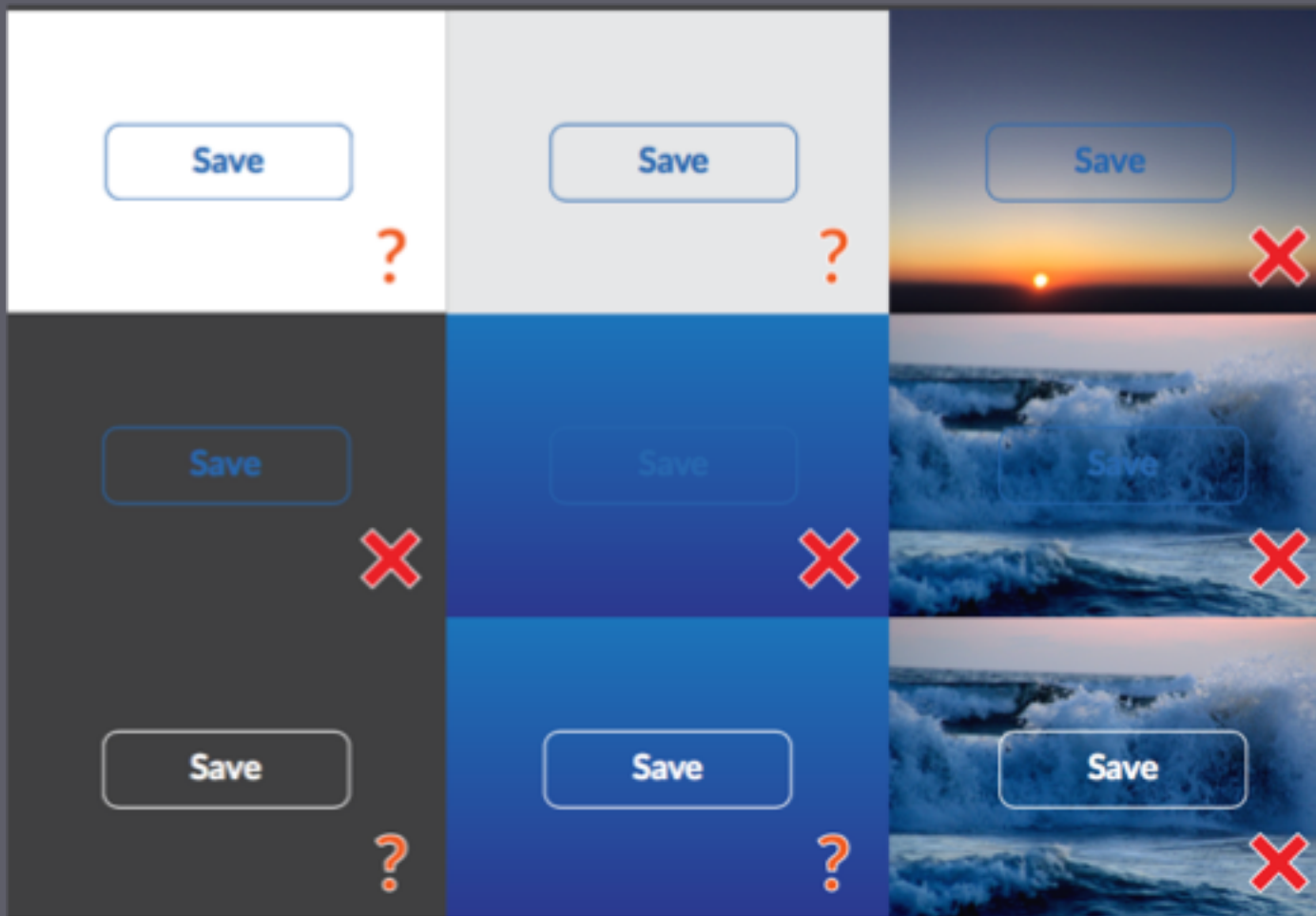
Standard

Primary Action

Send Now

Stop This Delivery

# GHOST BUTTONS



# HOW TO CREATE STYLE GUIDES

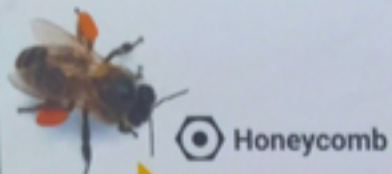
---

1. Involving various teams in the organization
2. War rooms and Design Week
3. Name the project





# Design System Week



## Honeycomb Progress

FEEDBACK: #HONEYCOMB

Honeycomb week 24 - 28 Aug.  
Get involved and help us launch Redgate's new design language and framework. #honeycomb

- Fly into Camelids live and #honeycomb channel
- Buzz around the Airsum progress boards
- Swarm to Nathan Curtis' talk on Tues Aug 26th at 14:30 in the SQL Servery
- Collect real honeycomb, honey bear and mead throughout the week

SQL MONITOR

SQL MONITOR

SQL MONITOR

SQL MONITOR

SQL MONITOR

SUB-BRANDS

SUB-BRANDS

Settings

Settings

SQL MONITOR

SQL MONITOR

SQL ID	SQL TEXT	SQL PLAN
SQLID_1	SELECT * FROM TABLE	TABLE ACCESS FULL
SQLID_2	SELECT * FROM TABLE	TABLE ACCESS FULL
SQLID_3	SELECT * FROM TABLE	TABLE ACCESS FULL

SQL MONITOR

SQL MONITOR

Honeycomb

Honeycomb: Redgate's design language and framework

Honeycomb

Icons

Icons

# Warroom Feedback



**LOVE!**

This is how we should feel



**NOPE!**

This is NOT how we should feel



**OPP**

An idea for improvement

# Website Performance

# WHY IS PERFORMANCE IMPORTANT?

---

- In 2017, people expect their website to load in 1 second
- Loading time is about money and users
- People hate “noticing the wait”
- “A brand isn’t what we tell customers it is, it’s what consumers tell each other it is”
  - 40% of users share their negative experience with friends, relatives, and on social media



# WHAT DO USERS CARE ABOUT?

---

- “Performance is about Perception, not about Math”
- Regular users don’t talk about “time to first render”. They just say fast or slow
- If users are unhappy with loading time, you will have to decrease it by at least 20% for users to spot the difference (Just Noticeable Difference)

# HOW TO IMPROVE PERFORMANCE?

---

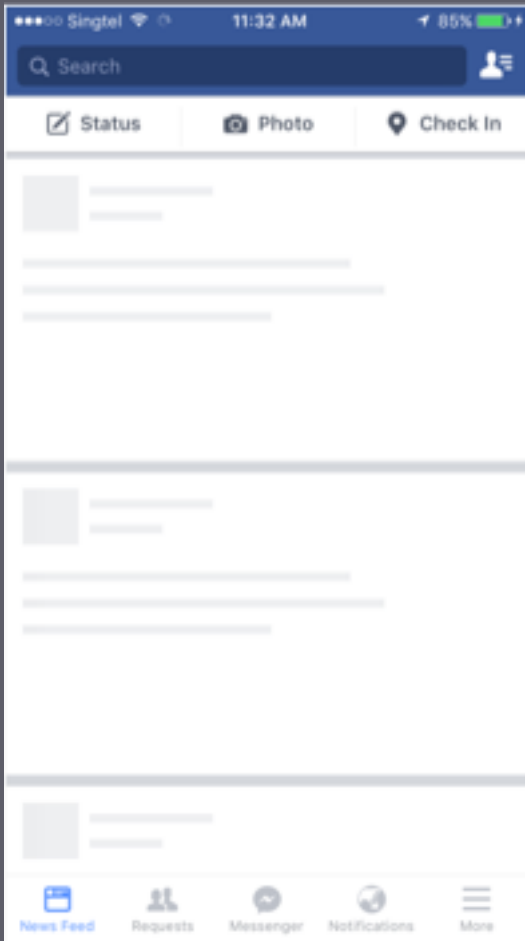
- “Deliver your content as soon as possible”
- “People come for the content, not for the images”
- Increase “Active Phase” and reduce “Passive Phase”

# ACTIVE PHASE v PASSIVE PHASE

---

- Psychological Performance Optimization
  - Trigger brain into active phase by reducing idling time
  - Example: YouTube, Slideshare
- Real World Analogies
  - Walking longer from Airplane to baggage claim v Waiting longer for bags
  - Placebo buttons at pedestrian crossings
- Skeleton Screens

# SKELETON SCREENS



- Creates anticipation
- UI feels faster and makes people happier
- Progress indicators help in processing delays



# WEBSITE OPTIMIZATION

---

- Images can be saved as low as 30% resolution without loss to quality
- If you have an image that contains a portrait, you can blur the background and it can save lots of load time.
- Keep JS and CSS files merged and compressed under 50 kilobytes
- Custom web fonts can be a bottleneck as they cause flicker when the website first loads



# OPTIMISTIC UI

---

- 97-99% requests should API return success
- As soon as the user clicks a button, instantly switch into success state.
- Example: Twitter favorite button as an example
- The system should only get in the user's way if there is a problem.

# Beyond Visual Norm

# COOL VISUALIZATIONS

---

- <https://nbremer.github.io/hackingthevisualnorm/#/voronoi-scatter-plot>
- <https://nbremer.github.io/hackingthevisualnorm/#/voronoi-baby-names>
- <https://nbremer.github.io/hackingthevisualnorm/#/brush-bar-adyen>
- <https://nbremer.github.io/hackingthevisualnorm/#/loom-lotr-final>

# Sneak Peek

<http://dev2.aei.org/aei-style-guide/>

THANK YOU!

---

# Questions

# APPENDIX

---

- Design Systems
  1. <http://harmony.intuit.com/>
  2. <http://www.bbc.co.uk/gel/guidelines/carousel>
  3. <http://ux.mailchimp.com/patterns/>
  4. <https://www.yelp.com/styleguide>
  5. <http://brand.opentable.com/voice-and-tone/>
  6. <http://styleguides.io/examples.html>



# APPENDIX

---

- Smashing Magazine Slides: <https://smashingconf.com/sf-2017/>
- Performance Measurement Tools
  1. Lighthouse
  2. Speedcurve
  3. WebPageTest.org