

1. **[Introduction]** Name, position, talk about experience reinventing interface
 - a. Background - Sitemason is...
 - b. Product first launched in 2001, built upon since
 - c. Today, massive amazing platform
 - d. Though interface never caught up to feature set
 - e. 12 years later, original UI elements feel 12 years old
 - f. So what if... Start from scratch, build dream interface, responsive, fast, any device click & touch.

2. **[Brewers Celebrate]** This time last year, Nyger Morgan...
 - a. How does it relate? Long drive to Milwaukee. Lots of time to think.
 - b. On way to Wisconsin, seed planted launching this process
 - c. Sitemason, like most, is Lists and Actions
 - d. Site = List of Pages, Blog = List of Articles. Adding page = Action, Reordering = Action.
 - e. Got notebook, listed all pieces in Sitemason
 - f. Thought "How can I put all these pieces into a single common interface?"
 - g. **[Notebook Photo]** Came up with this idea
 - h. Series of content panels that slide over their parent in a uniform way
 - i. Sketches from car trip. Know can't see much. Don't worry, explain later.
 - j. Back to Nashville. Showed Guys. Decided "we have to build this."
 - k. Thought we'd invented PERFECT interface
 - l. Couple months later, Twitter released iPad app
 - m. Since, people have said "oh yeah, that's similar to fill_in_the_blank."
 - n. Maybe won't get patents, but MOST importantly, interface fits OUR product.

3. Now have loose concept. Something to Build on.
 - a. Not worth nickel unless we can build it.
 - b. Monumental task. Must define things first.
 - c. **[Mission & Goals]** Mainly Mission and Process.
 - d. Kept Mission simple:
 - i. Build one interface that handles all our many assets that's usable on any device.
 - ii. Make it fully responsive so it's progressively enhanced on various browser screens.
 - e. From here, everything done relates back to Mission.
 - f. **[Process]** Next define process
 - i. Promise this isn't a bulleted power point presentation. One more to read.
 - g. To any Project Manager, not unique
 - h. Can't emphasize enough need to follow process from beginning
 - i. Can't stay focused on all at once. Need segments defined.
 - j. Briefly go over segments, and show off dev stuff after.

4. **[Inventory]** Inventory
 - a. If low point, this slide.
 - b. Nothing more arduous and boring... but important
 - c. Never really understand 12 years of dev until inventory
 - d. Have pages of this crap
 - e. Spent first two months taking inventory and strategizing architecture
 - f. Have over 1200 individual pieces to consider
 - g. If pieces aren't accounted, will be "gotchas" later

5. **[Architecture]** Sure it means something different to everyone
 - a. Since backend staying same, means for interface only
 - b. Took all 1200+ pieces, put everything in buckets
 - c. Set architecture around buckets in simple table
 - d. "After all, if it's not simple, than the interface isn't doing its job"

6. **[UX]** Define key concepts - last time I'll make you read
 - a. Content is presented in layered PANELS. Examples...
 - b. Anything that affects the list is an ACTION. Examples...
 - c. Any supporting content to the panel is a TAB. Examples...
 - d. Got it? Move on to visuals.

7. **[Wireframes]** Wire framed primary views with Balsamiq
 - a. Don't expect you to read margins, notes available at sitemason.com/barcamp
 - b. **[Wireframe Site]** First and most important, Site.
 - i. Primary content list of pages in site
 - ii. Tabs supporting the list
 - iii. Action Bar. Uniform placement.
 - iv. Help. Talk about in a bit.
 - c. **[Wireframe Page]** Page from site list.
 - i. Access site from margins
 - ii. Actions in universal spot
 - iii. Tabs support page
 - d. **[Wireframe Item]** Item Content
 - i. Article in Blog, Event in Calendar
 - ii. Tabs support Item
 - e. **[Wireframe Action - Add]** Action in progress
 - i. Click Add, get Page options.
 - f. **[Wireframe Shortcut Gear]** Introduce supporting feature...
 - i. SM is for large sites, completing common tasks quickly, very important
 - ii. Shortcut Gear per list item to change basic settings quickly
 - iii. Entire interface keyboard accessible, shortcut keys
 - g. **[Wireframe Help]** Persistent Help menu
 - i. Normally collapsed, but when selected, extends
 - ii. Shares description of last click
 - iii. Learn as you go for first time users. Quick reminder for experienced users

8. Have everything wire framed, next step design.
 - a. I'm a dev, wire frames prettiest thing I've ever made, only because of Balsamiq
 - b. I am the last person you want designing anything. Why we have partners.
 - c. **[Design - Kevin]** We worked with this guy.
 - i. Kevin Kennedy, fantastic designer, Signal Hill, North Carolina
 - ii. Been invaluable to the entire process, not just design.
 - iii. Anybody looking for good creative partner, call these guys.
 - d. **[Designs ALL]** Designs Kevin came up with based on wire frames
 - i. site, page, item, action - add, action - delete, advanced search, shortcut gear, expanded help, couple notifications

9. **[Front End Dev Considerations]** Have designs, everyone excited, now must build.
 - a. Before get started, list front end goals. How we want interface to feel.
 - b. First, must be responsive.
 - i. Since interface is in dev, might break, have video. **[Responsive Video]**
 1. Basic interface functions
 2. Notice hover not required, but enhances
 3. Large list, Hierarchical
 4. Breakpoints
 - c. Must be fast
 - i. People are busy, can't wait on us.
 - ii. Panels are quick, Actions need to be quick
 - iii. **[Actions Video]** Video showing Actions
 1. Add page. Type, Title, Path. Create.
 2. Reorder. Drag and Drop.
 3. Open Page. Add Content. Save.
 4. Duplicate Page
 5. Delete Duplicate
 - d. Byproduct of Responsive Design, can't rely on fixed pixel Anything
 - i. Set out to make interface without relying on any images
 - ii. Use Kevin's icons and turn them to Font Icon Set
 - iii. Font Icons literally fonts. Icon vectors mapped to character values.
 - iv. Remember Webdings?
 - v. Great example is css-tricks.com **[exit Keynote. Pull up Css-tricks.com]**
 1. Apply changes to icon without building multiple icon sets
 - vi. Here's our font icons **[SM Fonts]**
 1. Can copy icons, paste, see character mappings

10. [**Development**] Here's where we are with the interface [**pull up SM6 tab**].
- a. Very much unstable pre-alpha software, so can't do much.
 - b. See panels slide and content load. Fast. Slick. Real content from sitemason.com
 - c. Start with pristine semantic HTML [**Inspect Element**]
 - i. Inspecting Element on interface, checkout how clean markup
 - ii. Notice how few resources being loaded
 - iii. Look in <head> only two stylesheets, one font icons, other interface styles
 - d. Interface only relies on two outside libraries
 - i. jQuery - javascript framework - low level browser unification & connection stuff
 - ii. Modernizr - browser feature detection
 - 1. If haven't used, classes on <html> tag are features added by Modernizr
 - 2. Currently only use to detect if Local Storage is available
 - [Pause]
 - e. For Interface, biggest concept to understand, may take a sec to sink in...
 - i. Entire interface is generated by javascript.
 - ii. Repeat. Entire interface is generated by javascript. No HTML or PHP files.
 - iii. All markup seeing here, all created by javascript config files.
 - iv. After loaded, only calls to server retrieve data as JSON objects
 - v. Interface and data are literally all javascript
 - vi. Retrieval, delivery, and display of EVERYTHING, all done with javascript
 - vii. "Truly a platform independent interface because the platform IS the browser."
 - f. Example: took snippet from sitemason.js [**Show in Inspector**]
 - i. sitemason.js draws entire interface
 - ii. snippet shows how Action Bar is generated [**Pull up Coda with actionBar.js**]
 - iii. Just a JSON object
 - iv. Define Action Buttons, list of buttons and behavior
 - v. Add button, mapped to "a" font icon
 - vi. Has values like title and submission URL
 - vii. Cascading beneath that options for the workflow to add page.
 - 1. which type of page, title & path, submit
 - viii. Do this for each Action button: Delete, Reorder, Duplicate
 - ix. Do few dozen more times, and have entire interface, built from javascript.
 - g. Local Storage - earlier mentioned
 - i. Realize all simple JSON data could be stored in Local Storage. [**Inspect Element - Local Storage**]
 - ii. If aren't familiar, LS is HTML5 feature, similar to cookies, much more storage.
 - iii. Can put huge data objects in Local Storage. Like local database in browser.
 - iv. More we've used, More we've realized "why don't we put all this data in Local Storage?"
 - v. Now backend does very little more than store and retrieve data.
 - vi. All display and most of the functionality is all happening in the browser.
 - vii. Sitemason uses Local Storage liberally
 - viii. Having all data local, makes sorting 100's items trivially fast
 - ix. See sorting here on Sitemason blog [**Sort List**].
 - x. Search as you type [**search 'part' then 'partners'**]. Too fast. Added pause.