

### Designing the Industrial Internet

IxDA SF Design Doing August 8, 2013

Dane Petersen @thegreatsunra @GEDesign





121 years old

121 years old300,000 employees

121 years old300,000 employees14,000 developers

121 years old300,000 employees14,000 developers\$147 billion revenue

121 years old300,000 employees14,000 developers\$147 billion revenue\$13 billion income



































#### All these industrial things run on software

# All these industrial things run on software Connected to the internet

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Connected to the internet

Generating gobs of data

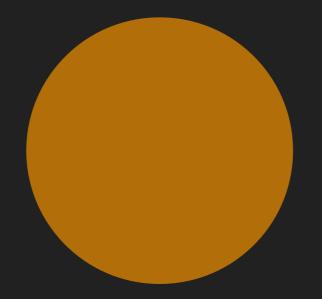
All these industrial things run on software

Connected to the internet

Generating gobs of data

For their (benevolent) human operators

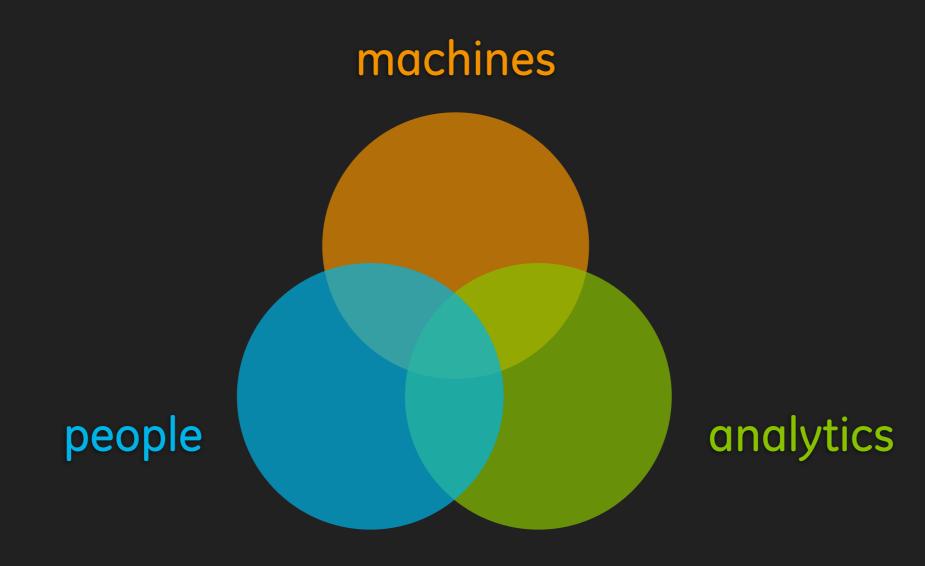
#### machines

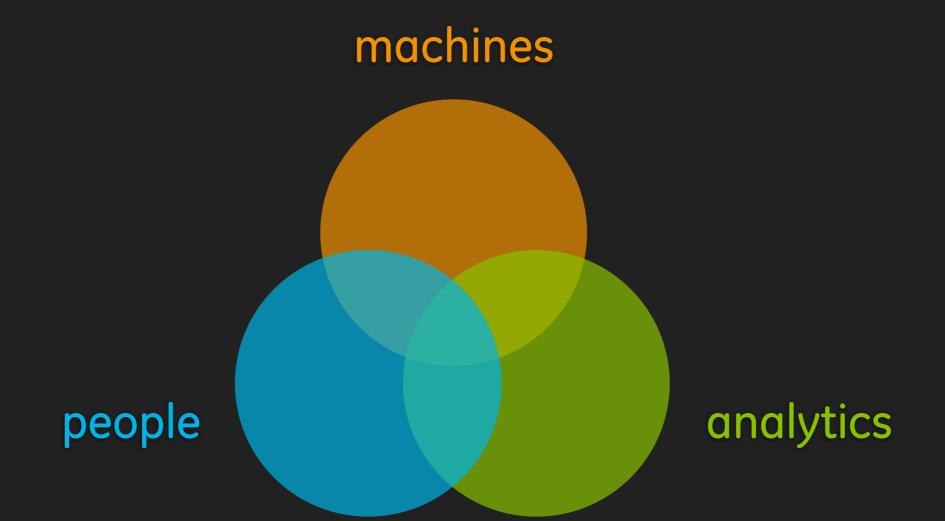


#### machines

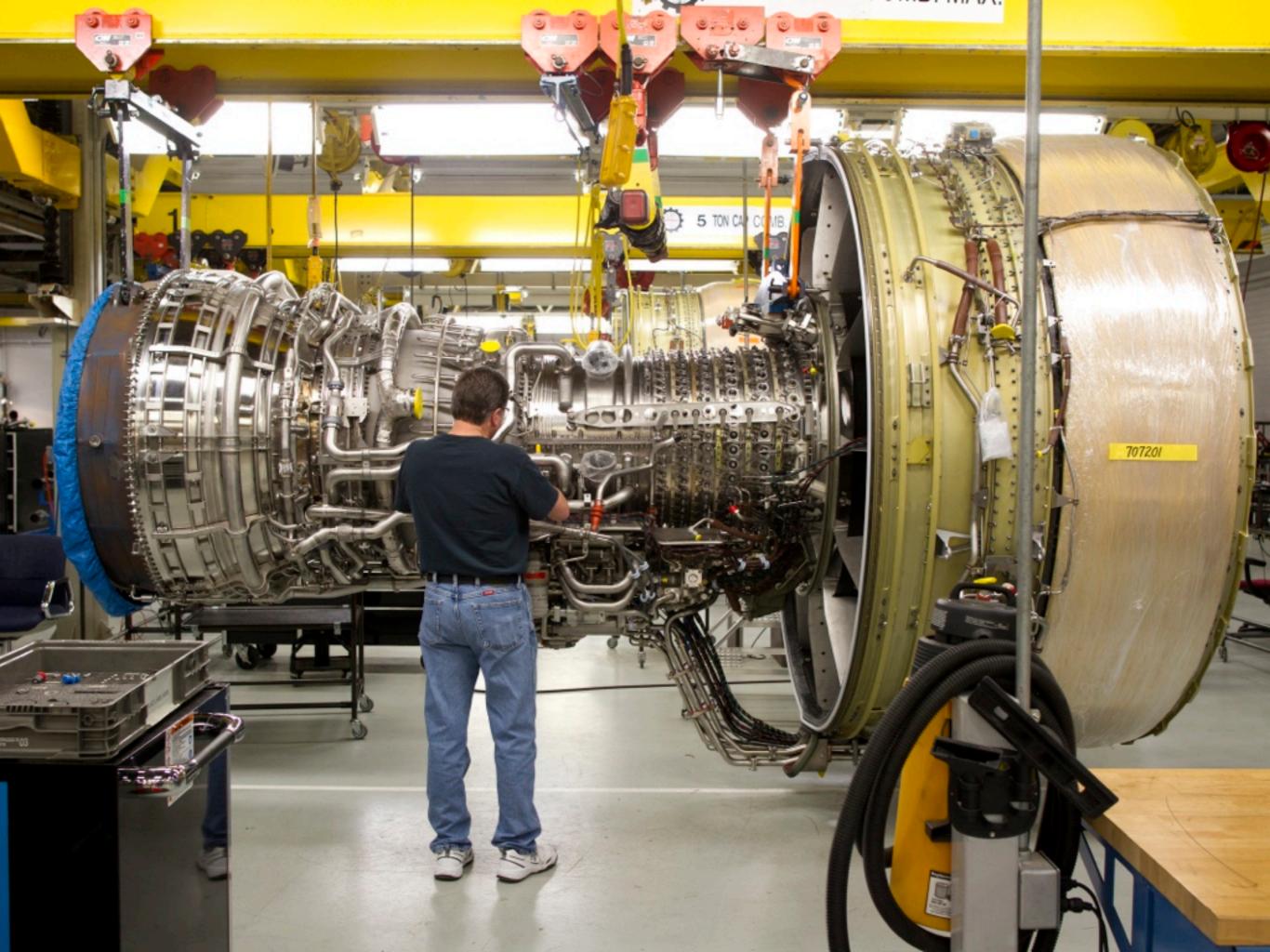


#### analytics



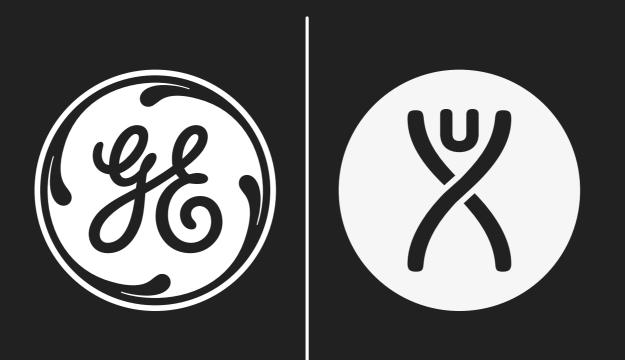


## The Industrial Internet

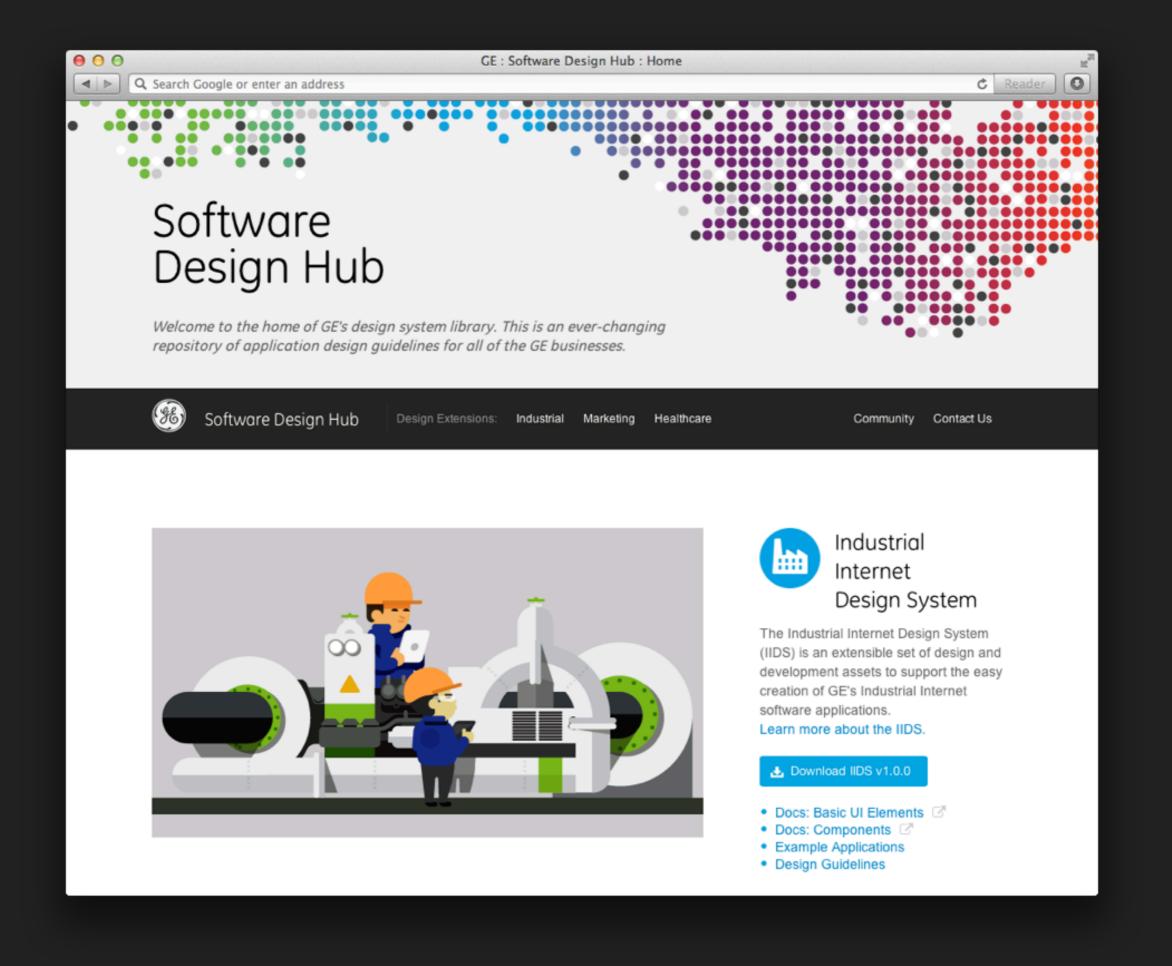


## function(){

**};** 



# Design Systems



#### The Industrial Internet Design System (IIDS)

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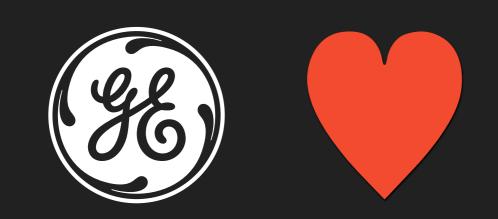
A code-based design framework that establishes visual and interactive patterns for all of GE's industrial internet software. When I prototype in IIDS, I am prototyping in the same code used by our software engineers.

When I prototype in IIDS, I am prototyping in the same code used by our software engineers.

It gets better.

#### <!DOCTYPE html>

















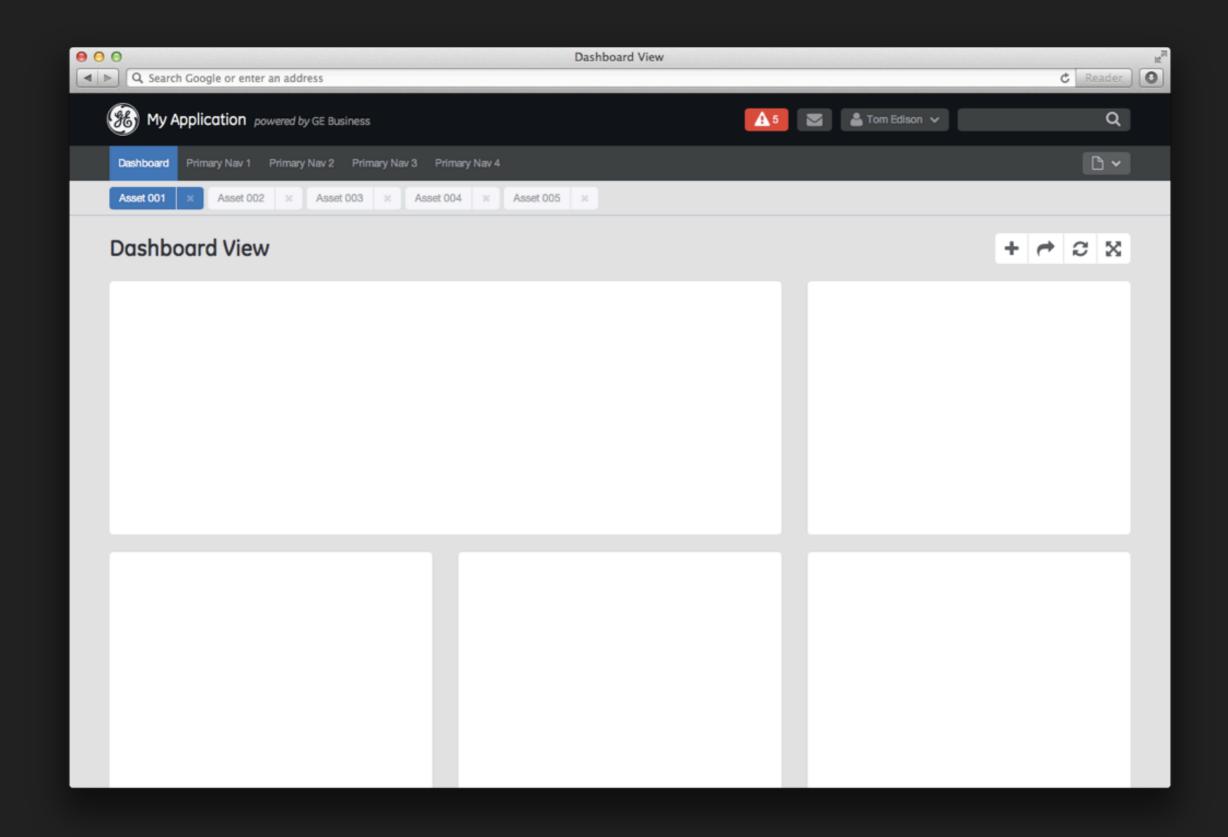








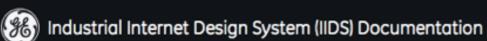
IIDS.zip





e,

C Reader



### **Documentation / Examples**

#### Documentation

#### **Basic UI Elements**

Documentation for and examples of IIDS Basic UI Elements, including typography, buttons and forms.

#### Components

Documentation for and examples of IIDS Components, including complex buttons, navigation and charting.

#### Examples

#### Datagrids

A comprehensive list of Datagrids examples.

NOTE These examples loads local JSON, and so might not work in Chrome or IE. To preview them, use Firefox or a web server.

#### **Common Patterns**

#### Layouts

Dashboard View IIDS dashboard view pattern

Mixed Module View IIDS mixed module view pattern

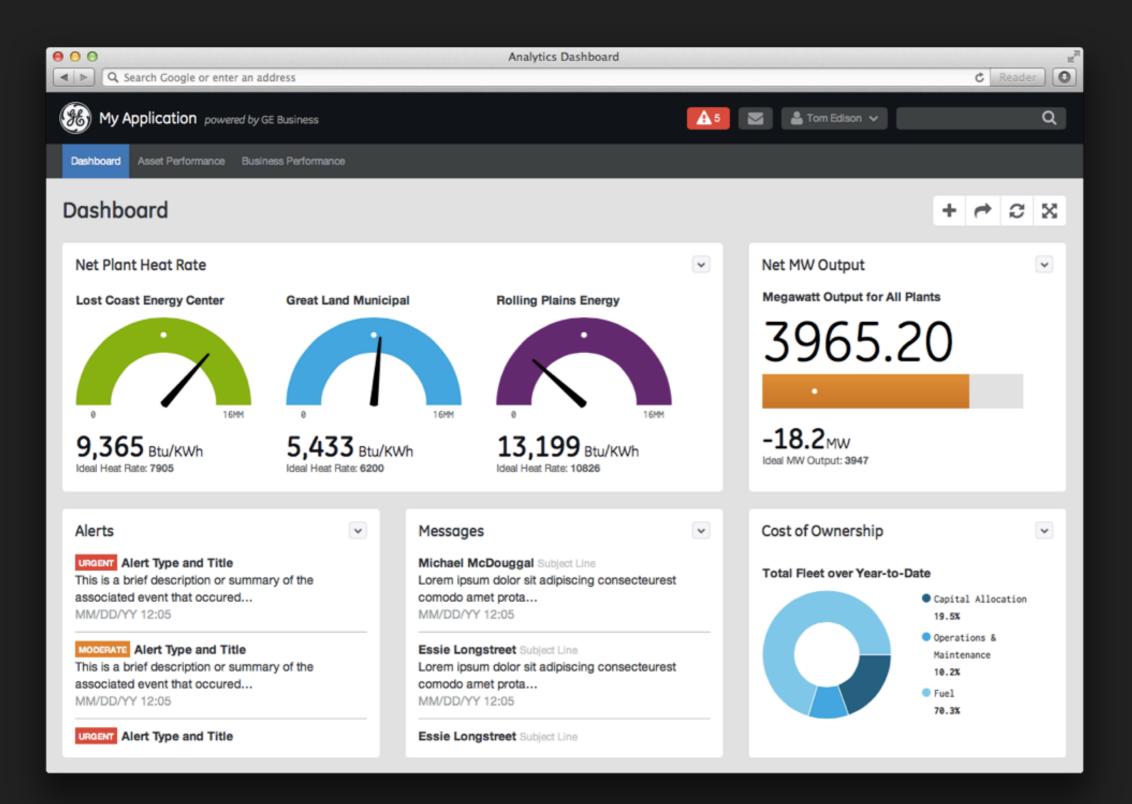
Content View IIDS content view pattern

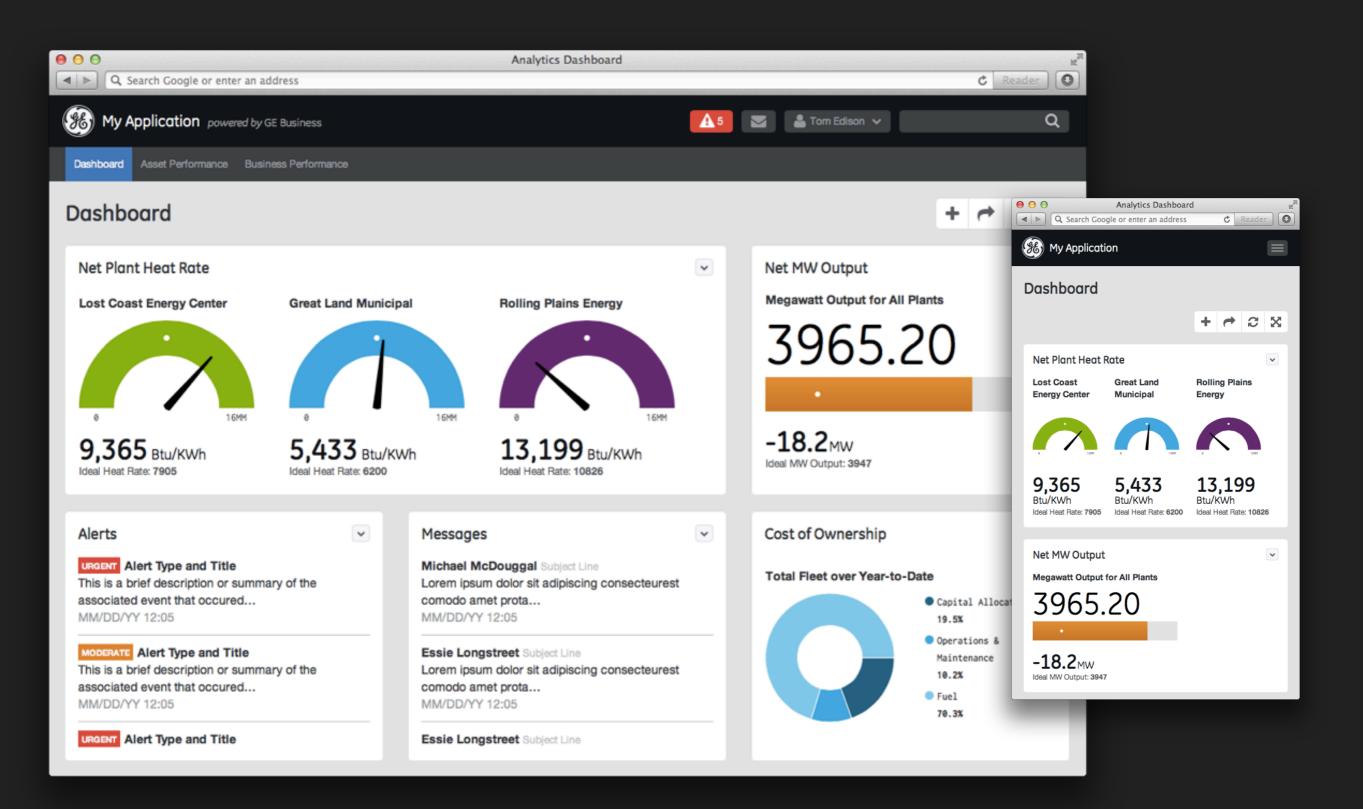
#### Kitchen Sink

IIDS template displaying functional demos of multiple IIDS application elements

#### Two-pane View IIDS two-pane view pattern

Image: Comparison of the second se	address	Components	C Reader	0
IIDS - Components	powered by Bootstrap			
Complex Buttons Navigation 🗸	✓ Data Grids Charts ✓ More ✓			
Labels, Badg	ges & Alerts			
Example	Description	Usage		
DEFAULT	Labels	1. <span class="label">Default</span>		
SUCCESS WARNING		Add one of .label-success , .label-warning ,		
		.label-important, .label-info or .label-inverse to colorize the .label for the appropriate context.		
INVERSE		<pre>1. <span class="label label-success">Success</span></pre>		
		Use the Bootstrap utility classes .pull-left or .pull-right to make .label float alongside headlines or other block elements.		
1	Badges	1. <span class="badge">1</span>		
4		Add one of .badge-success , .badge-warning ,		
		.badge-important, .badge-info or .badge-inverse to colorize the .badge for the appropriate context.		
10		1. <pre><span class="badge badge-success">2</span></pre>		





I don't start in code

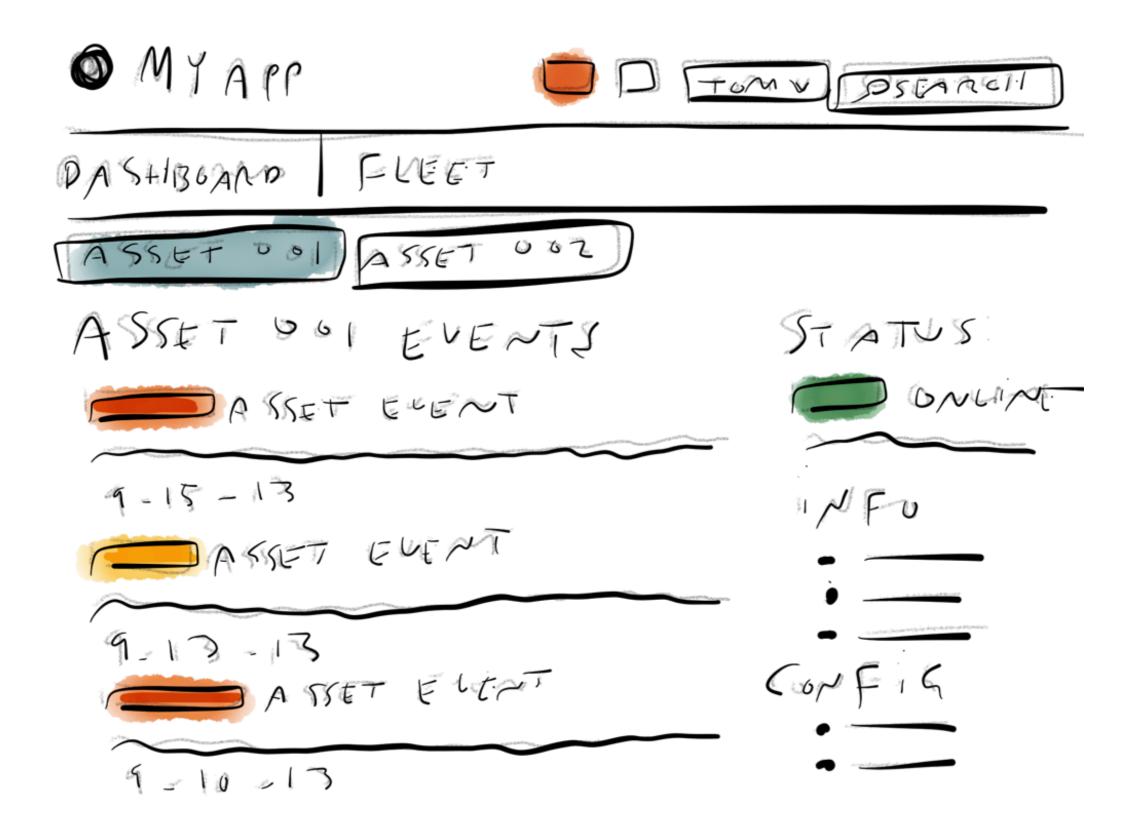
I don't start in code

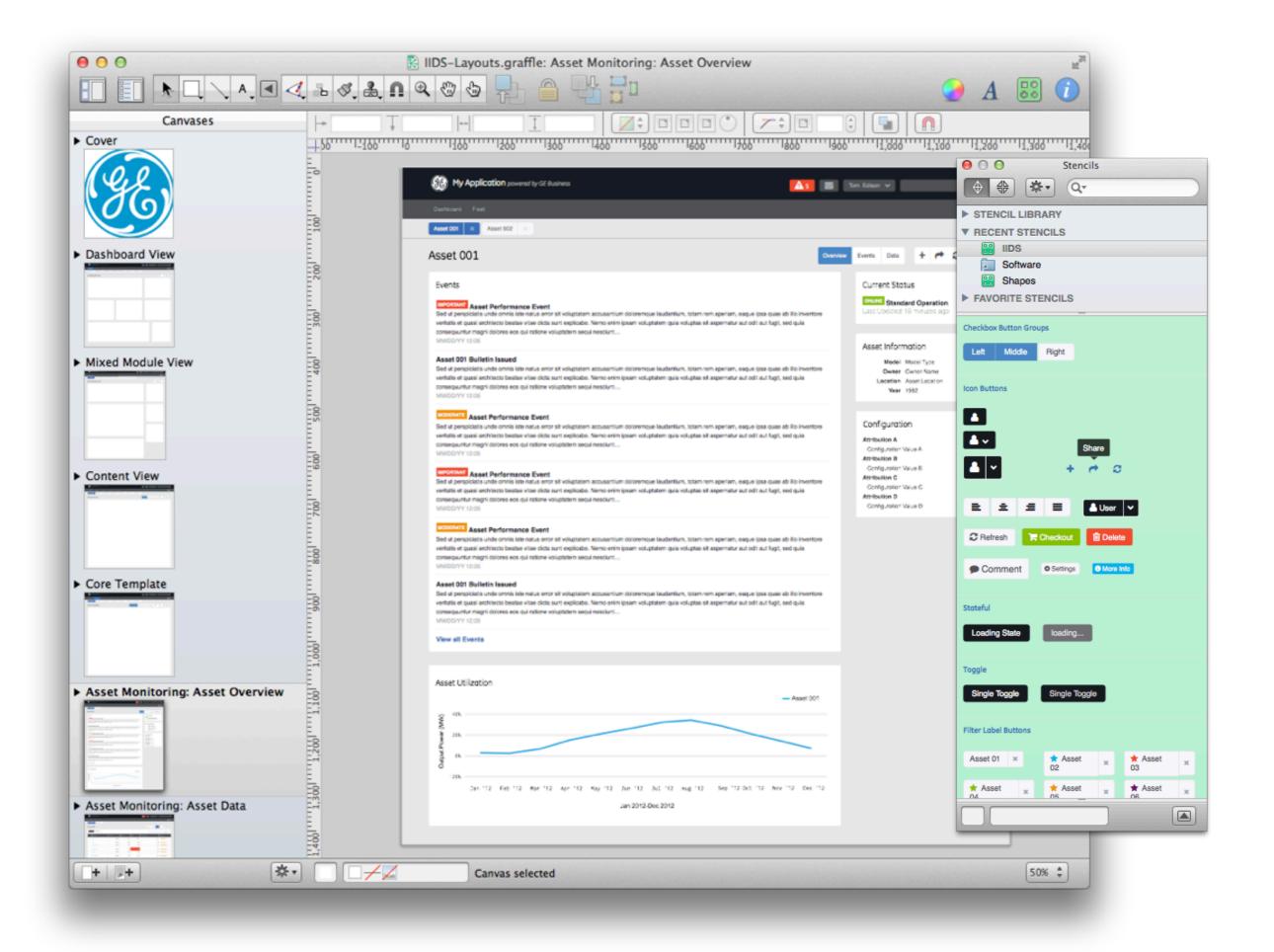
Code is not always the best place to design

I don't start in code

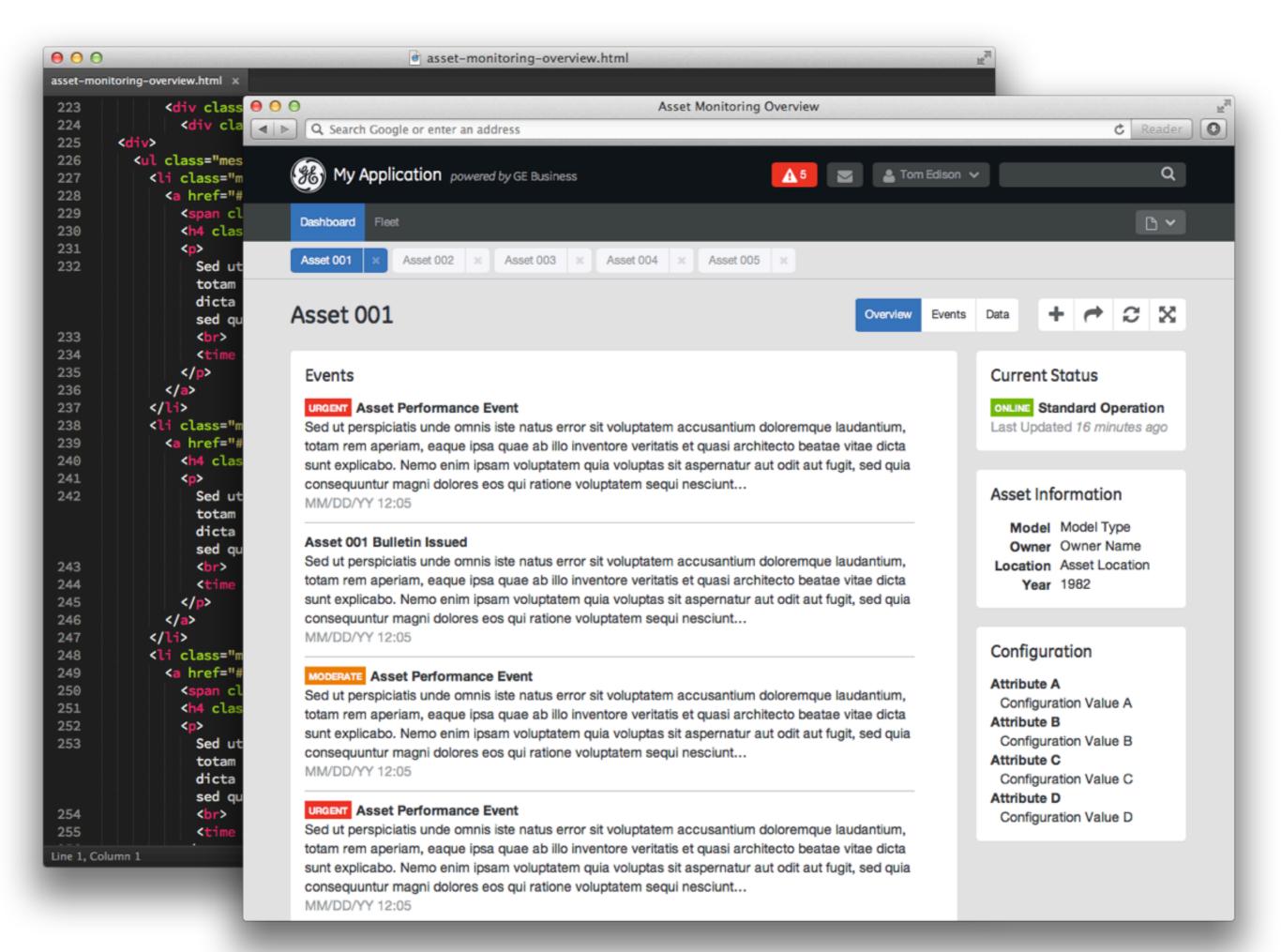
Code is not always the best place to design

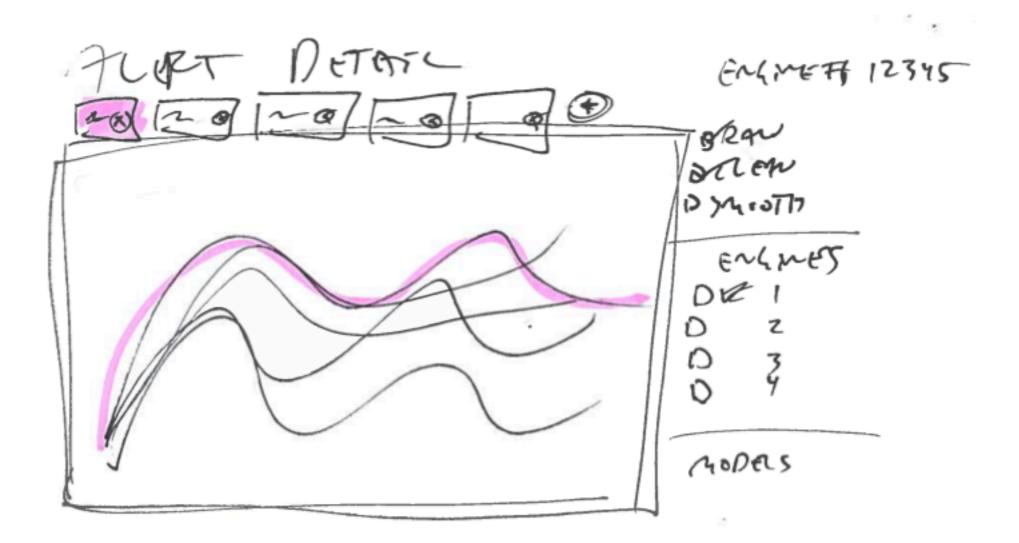
It is a single design medium among many

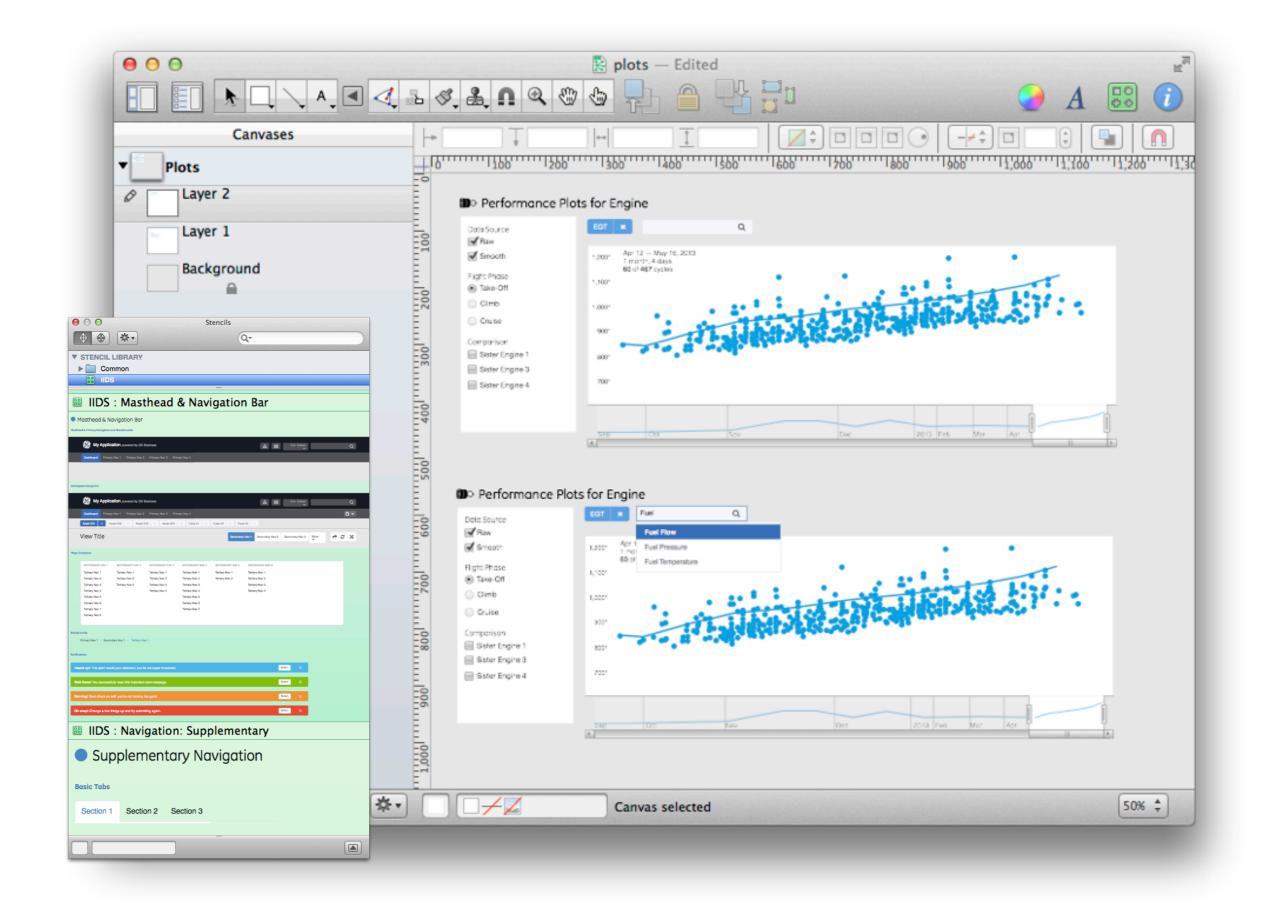


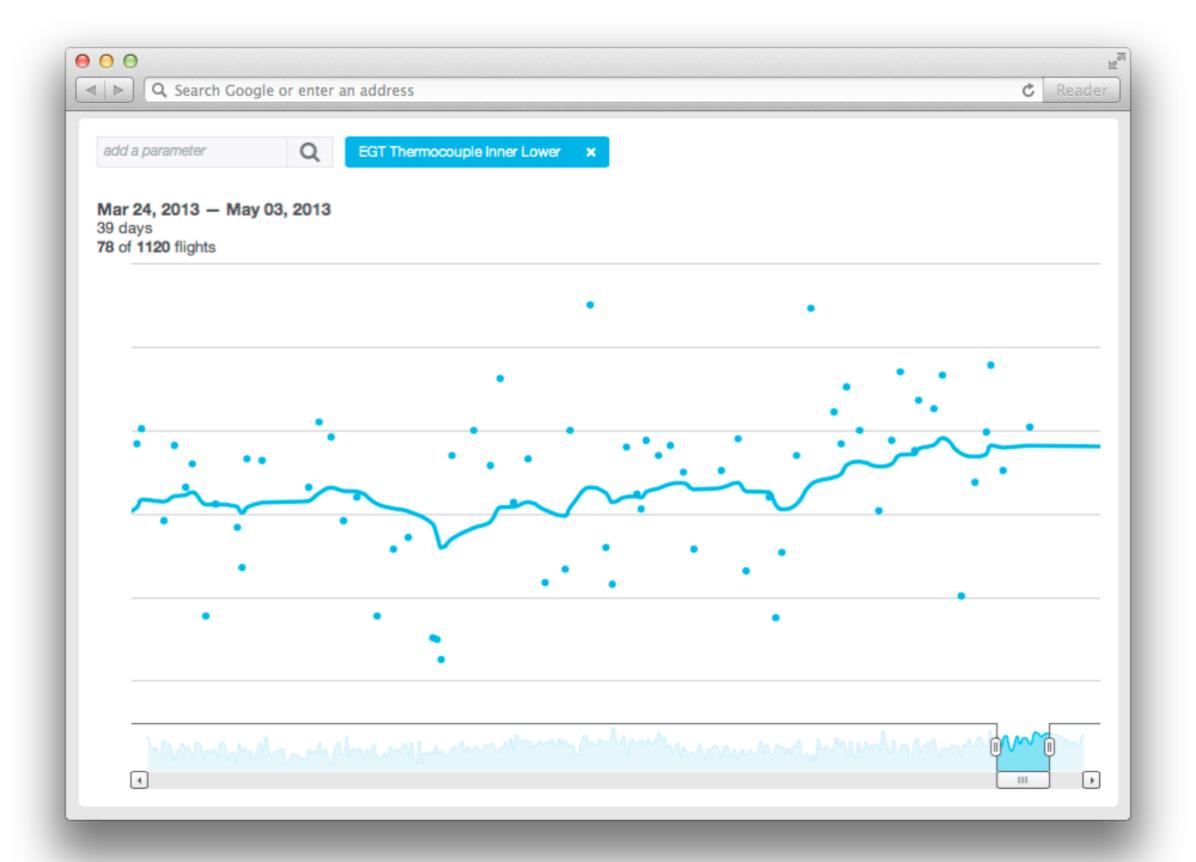


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# Gotchas

Writing it is way harder than you think

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Unless you set expectations, your code will be implemented as-is, and you will be asked to support it

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Are you the right person to code for IE8?

Code can make it feel too real

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The worst that can happen is that your prototype gets implemented as you built it

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Idiosyncrasies and all

As the designer, your job is to account for the strategy as well as the execution

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You are responsible for the 10,000-foot view and the 10-inch view

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You are responsible for the 10,000-foot view and the 10-inch view

Switching between these contexts is hard, and you need to get good at it

Set expectations

Set expectations

Establish clear boundaries

Set expectations

Establish clear boundaries

Communicate early and often

# Remember

### Remember

You are an advocate for the user





# Questions? Get in touch!

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@GEDesign
dane@ge.com