Pulling It All Together

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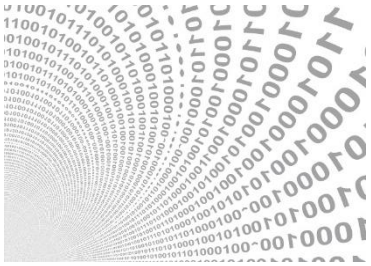
pluralsight
hardcore dev and IT training

Course Outline

The Basics



Working with Data

Mapping

Basic Charting

Enhancing Your Viz

Pulling it All Together

Overview

- Dashboard Overview
- Dashboard Design
- Building a Dashboard

Dashboard Overview

Visual display of the

most important information

needed to achieve **one or more objectives** which

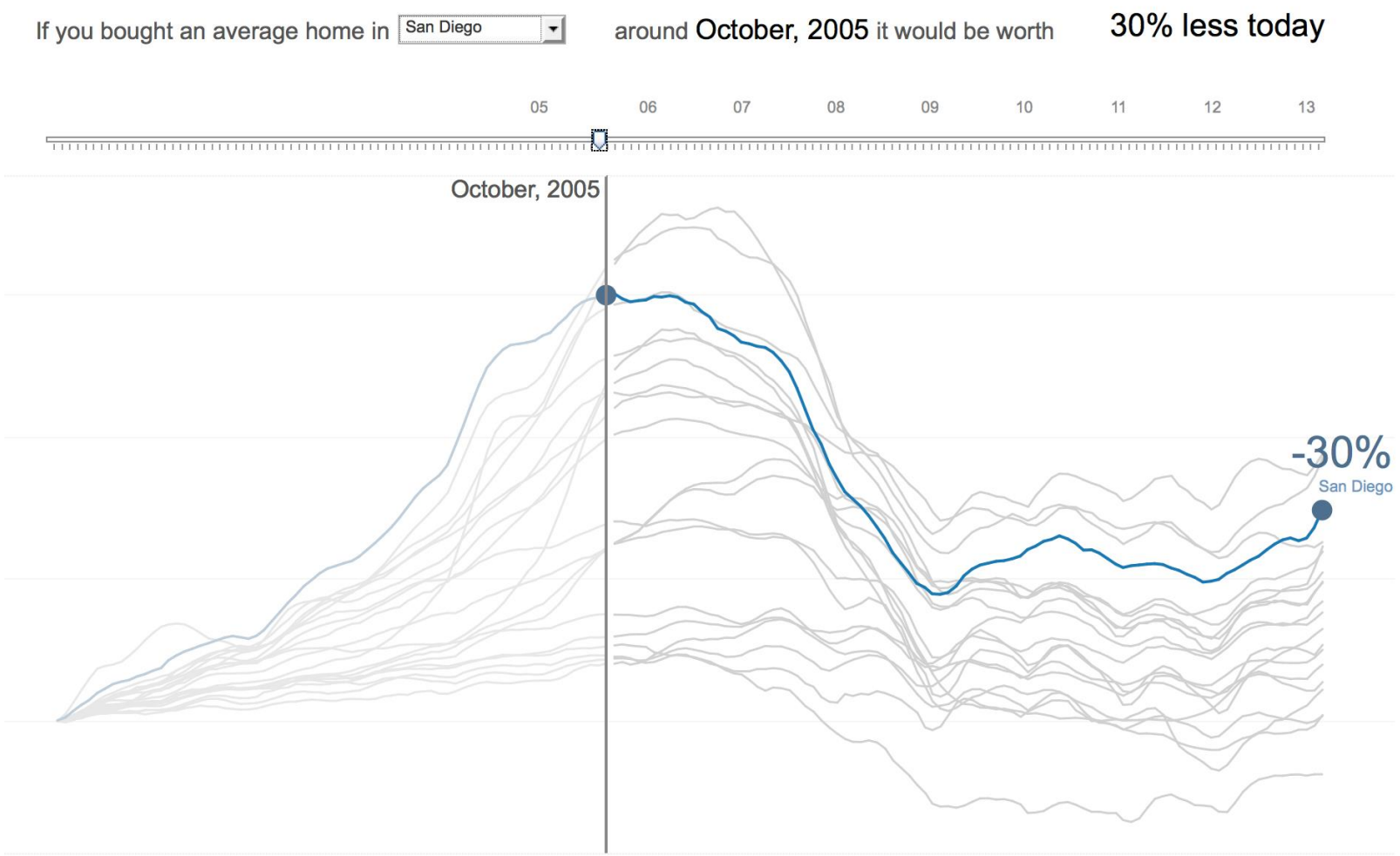
fits entirely on a single computer screen so it can be

monitored at a glance

Stephen Few, “Dashboard Confusion” 2004

Microstrategy

Housing's Rise and Fall in 20 Cities



The Data

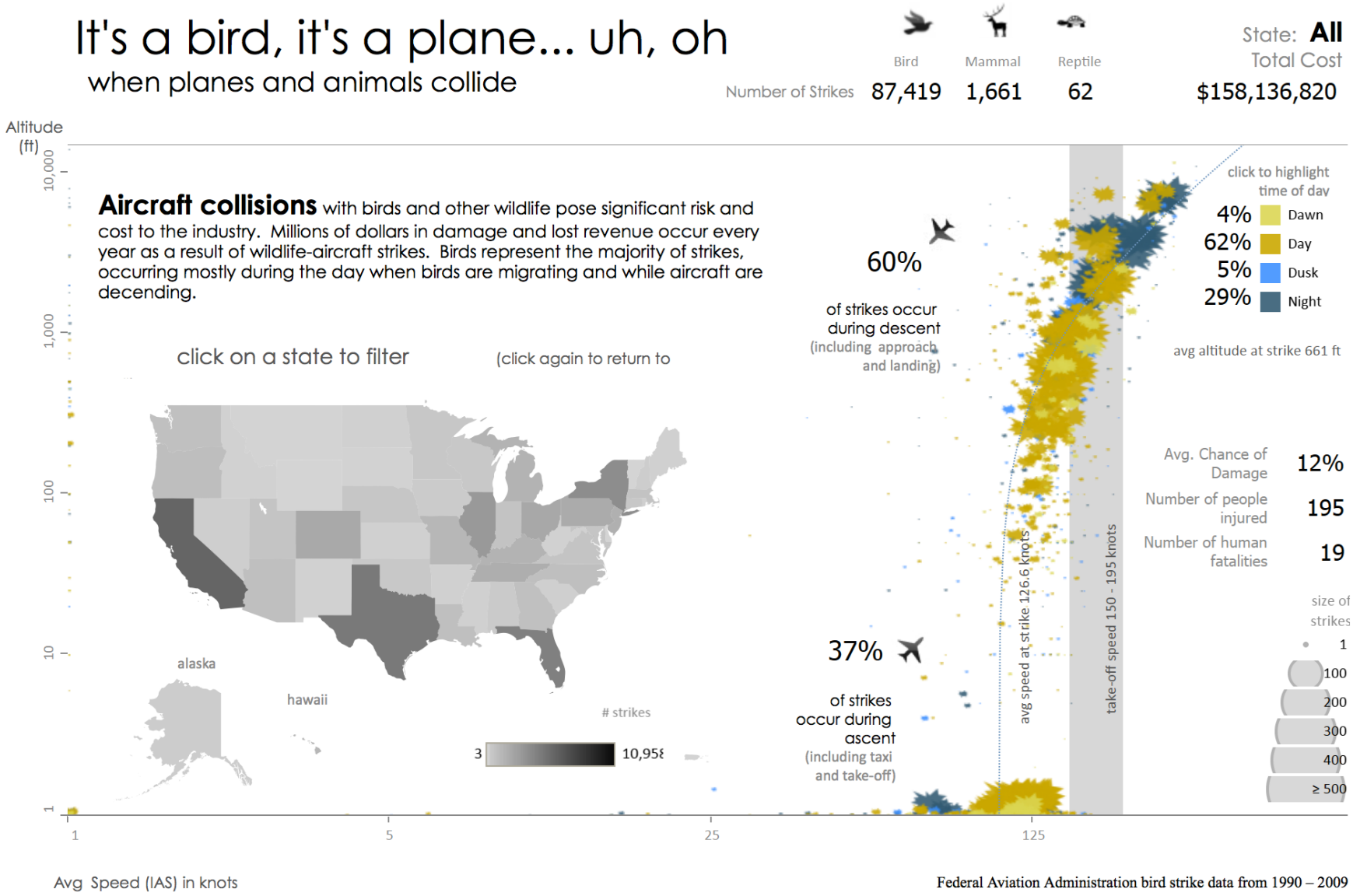
The S&P/Case-Shiller Home Price Indices are the leading measures of U.S. residential real estate prices, tracking changes in the value of residential real estate both nationally as well as in 20 metropolitan regions.

S&P DOW JONES INDICES
McGRAW HILL FINANCIAL

dashboards by VizCandy

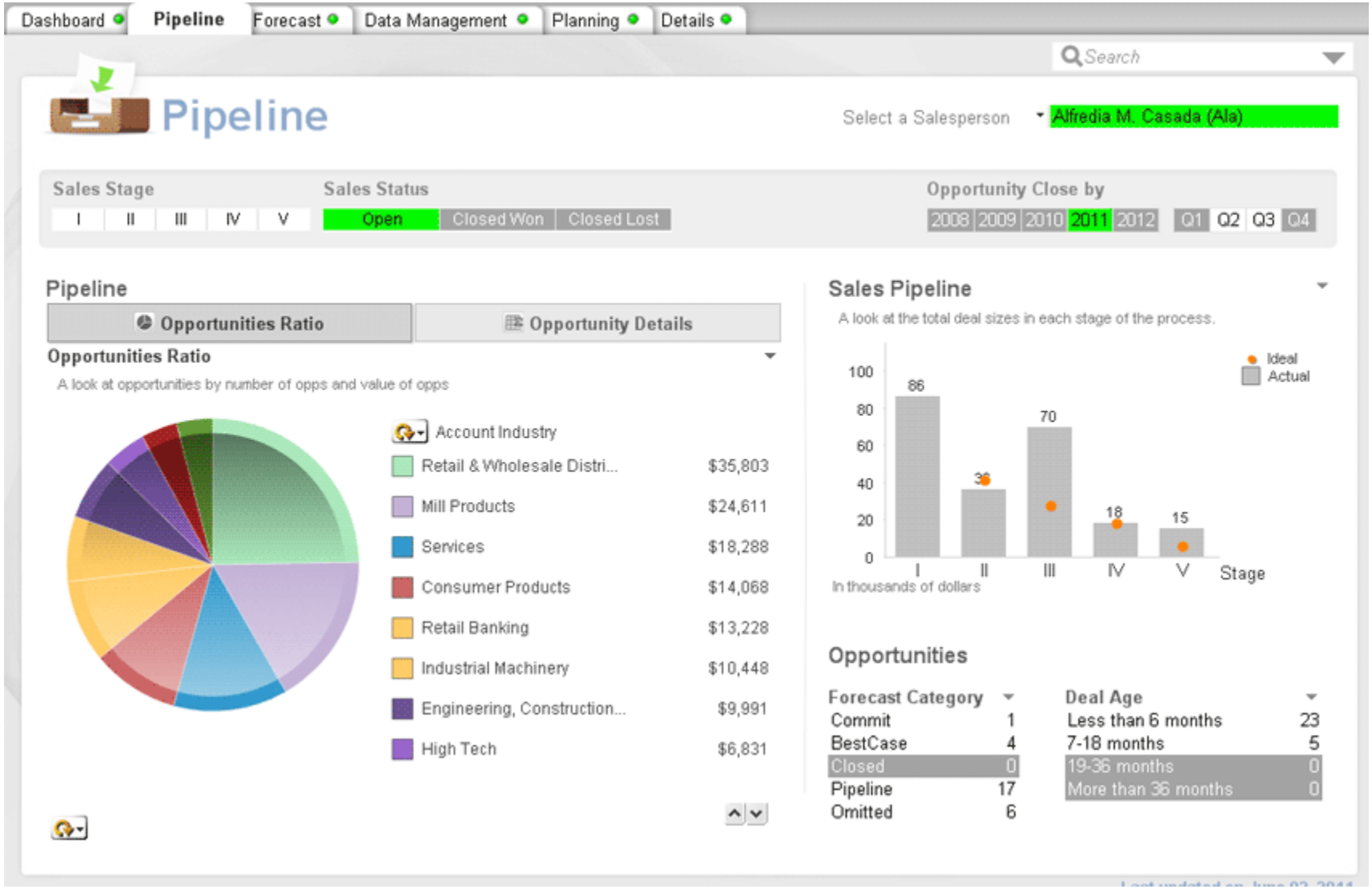
http://vizcandy.blogspot.com/2013/07/replicating-new-york-times-d3js-chart.html

Oracle PeopleSoft



http://vizcandy.blogspot.ca/p/tableau-8-redoux.html

Business Objects


Dashboard
Pipeline
Forecast
Data Management
Planning
Details
Search
Pipeline
Select a Salesperson
Alfredia M. Casada (Ala)
Sales Stage
I
II
III
IV
V
Sales Status
Open
Closed Won
Closed Lost
Opportunity Close by
2008
2009
2010
2011
2012
Q1
Q2
Q3
Q4
Pipeline
Opportunities Ratio
Opportunity Details
Opportunities Ratio
A look at opportunities by number of opps and value of opps
Account Industry
Retail & Wholesale Distri... $35,803
Mill Products $24,611
Services $18,288
Consumer Products $14,068
Retail Banking $13,228
Industrial Machinery $10,448
Engineering, Construction... $9,991
High Tech $6,831
Sales Pipeline
A look at the total deal sizes in each stage of the process.
Ideal
Actual
100
80
60
40
20
0
86
36
70
18
15
I
II
III
IV
V
Stage
In thousands of dollars
Opportunities
Forecast Category
Commit 1
BestCase 4
Closed 0
Pipeline 17
Omitted 6
Deal Age
Less than 6 months 23
7-18 months 5
19-36 months 0
More than 36 months 0

QlickView

Provider Search

Procedure (DRG)

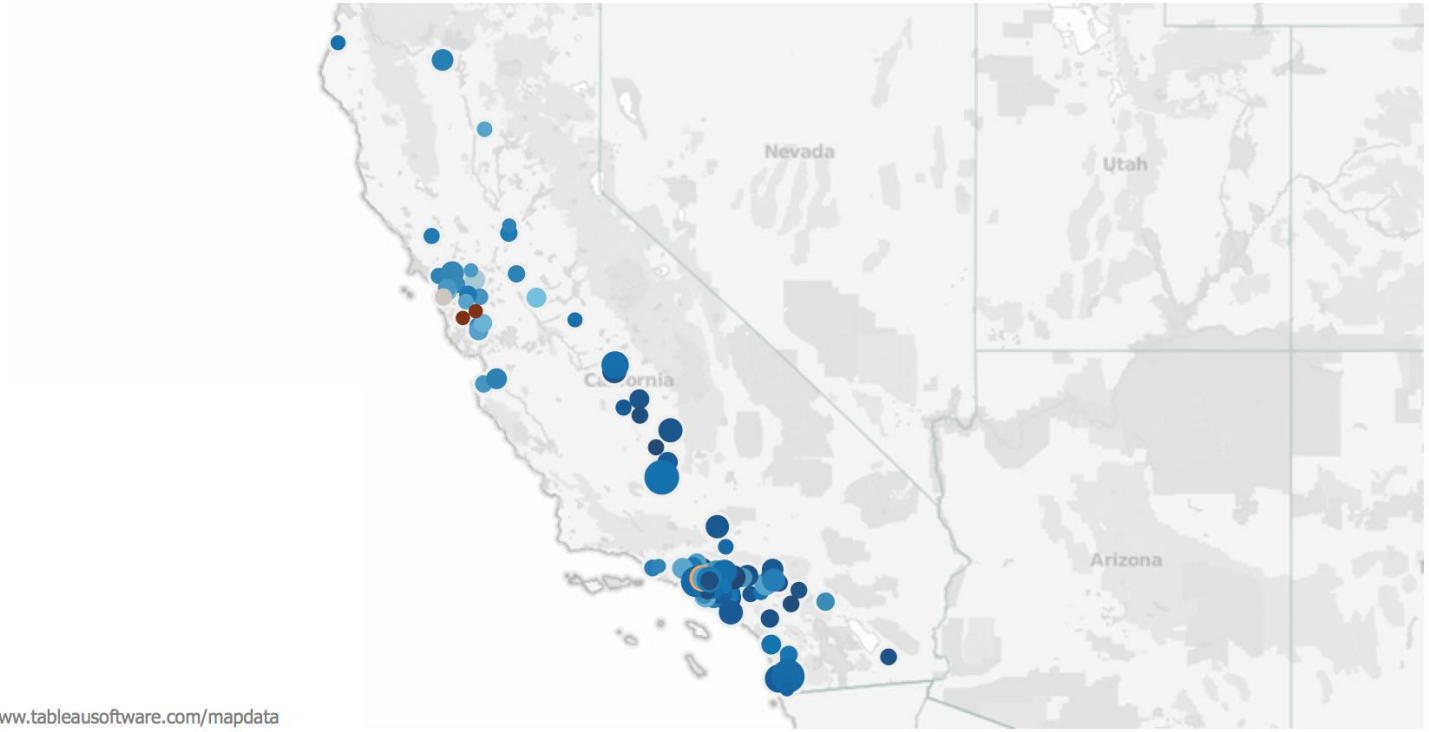
207 - RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT 96+ HOURS

State CA Region (All)

Range of Charges (select to filter map)

$96.8K $929.1K

Cost by Zip in CA (select to see providers)



About Tableau maps: www.tableausoftware.com/mapdata

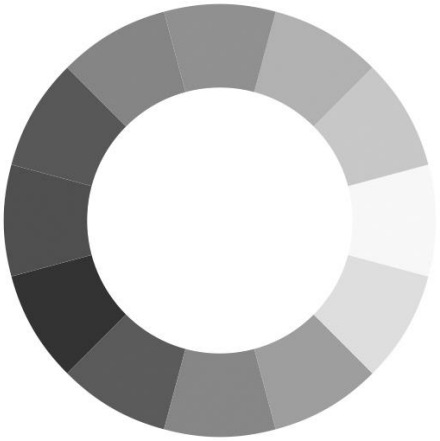
src: http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Medicare-Provider-Charge-Data/index.html

http://bensullins.com

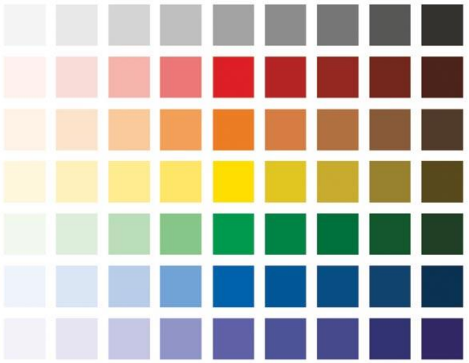
Dashboard Design

Color

Hue



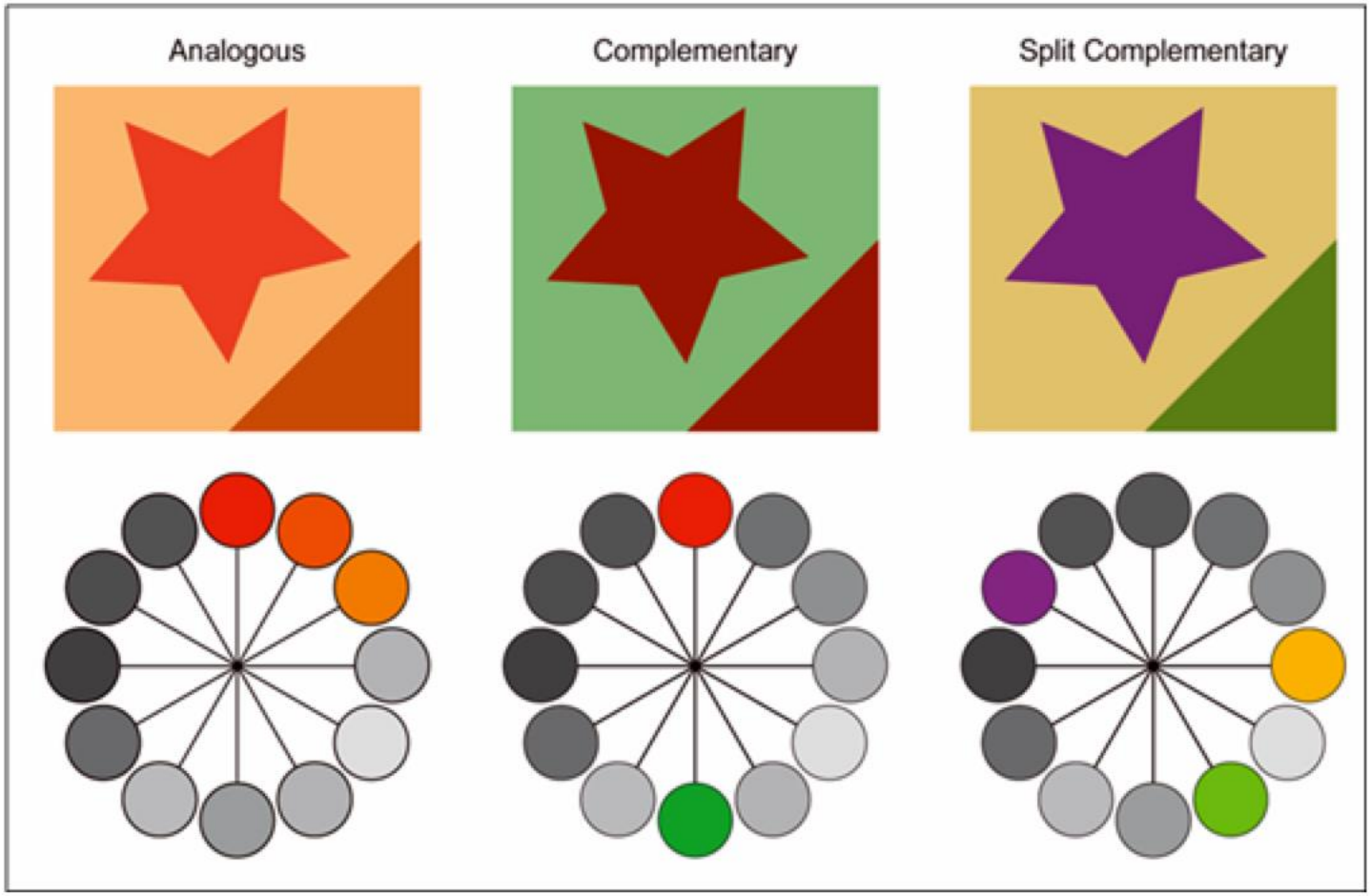
Lightness
(value)



Intensity
(chroma)

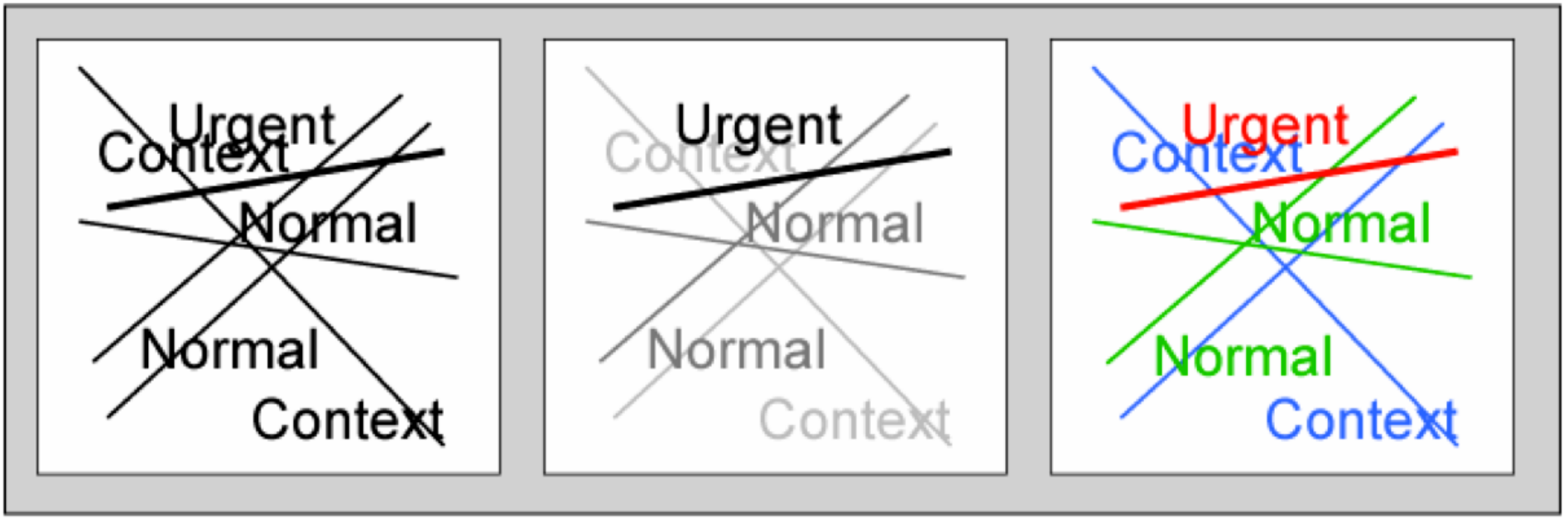
reference: http://colorbrewer2.org/

How to Use Color



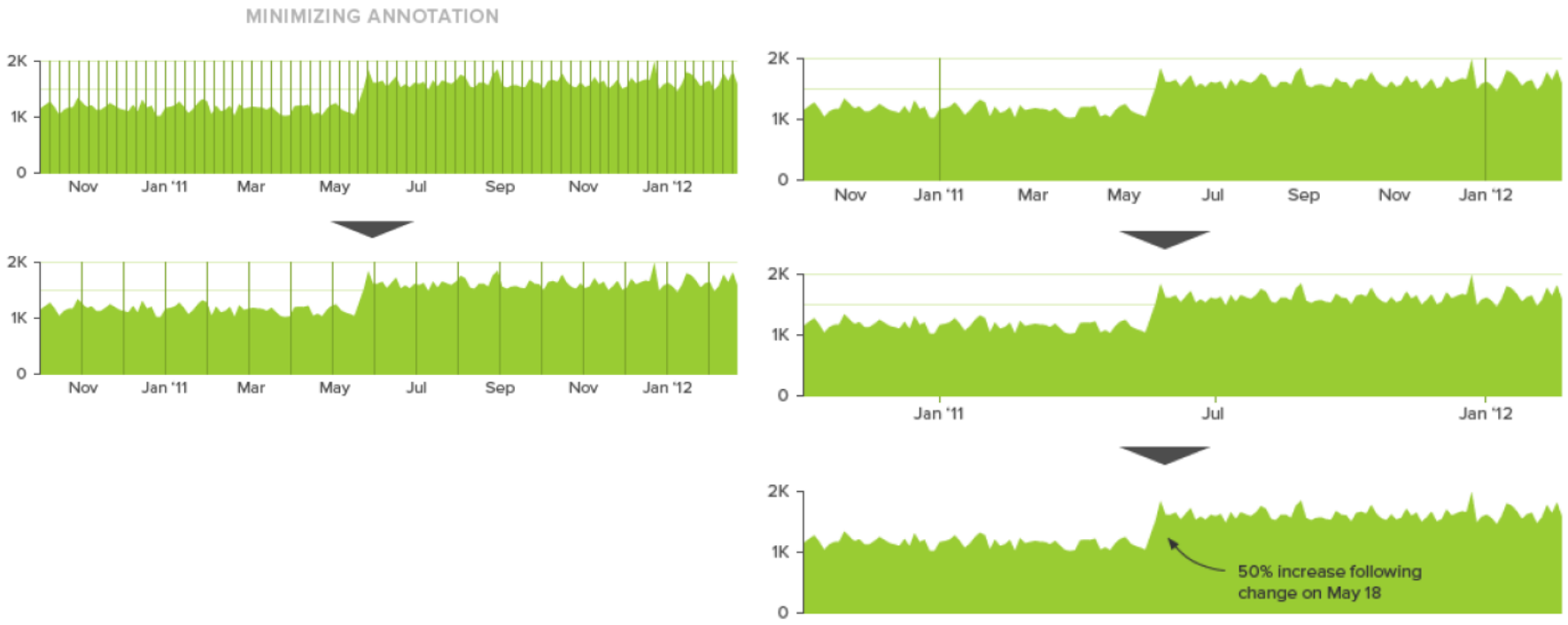
src: http://www.perceptualedge.com/articles/b-eye/choosing_colors.pdf

How to Use Color



src: http://www.perceptualedge.com/articles/b-eye/choosing_colors.pdf

Annotation


MINIMIZING ANNOTATION
2K
1K
0
Nov
Jan '11
Mar
May
Jul
Sep
Nov
Jan '12
2K
1K
0
Nov
Jan '11
Mar
May
Jul
Sep
Nov
Jan '12
2K
1K
0
Nov
Jan '11
Mar
May
Jul
Sep
Nov
Jan '12
2K
1K
0
Jan '11
Jul
Jan '12
2K
1K
0
50% increase following
change on May 18

Flow

Heatmaps from user eyetracking studies of three websites. The areas where users looked the most are colored red; the yellow areas indicate fewer views, followed by the least-viewed blue areas. Gray areas didn't attract any fixations.

src: http://www.nngroup.com/articles/f-shaped-pattern-reading-web-content/

Building a Dashboard

Summary

- Dashboard Overview
- Dashboard Design
- Building a Dashboard