

Understanding Dashboards

Key Distinguishing Factors

From 83 corpus of dashboards, 15 distinguishing factors were identified into four major categories.



PURPOSE

The intended use of dashboard defines the basis for its visual & functional design.

Two possible intents either decision making or pure communication and learning.



AUDIENC

Identifying the target viewers of the dashboard serves as a key factor

Main audience classes can be Public, Social, Organization & Individual.



VISUAL AND INTERACTIVI FEATURES

User interaction can be achieved in numerous ways

few of them are customization, data filteration and modification etc.



DATA SEMANTICS

Dashboards often visualize the anomalies and highlights for awareness.

Ideal goals known as the benchmarks are the valuable semantics.

Dashboard Clusters



Strategic Decision-Making

Operational Decision-Making





Awareness



Static Operational

Static Organizational





Quantified Self





Dashboard Evolved

Major Challenges

Other than familiar visualization challenges there are few newly accentuated challenges in the process of designing dashboards.

Data Design

Adaptivity

Data and Metadata

Impoverished Data Vocabulary

Social Impact

Privacy

Social data as context

Data -Driven thinking

Sharing, Security & Privacy