What is animation?
What is animation?

The act of bringing to life
Characteristics of animation
Characteristics

Animation draws attention
Characteristics

Animation gives objects constancy
Characteristics

Animation groups objects together
Characteristics

Animation suggests causation and intentionality
Characteristics

Animation is emotionally engaging
Animation is ephemeral
Three uses of animation
Three uses

Animation as narration
U.S. GUN DEATHS IN JANUARY

556 PEOPLE KILLED

15,835 STOLEN YEARS
Three uses

Animation as encoding
An invisible, ancient source of energy surrounds us—energy that powered the first explorations of the world, and that may be a key to the future. This map shows you the delicate tracery of wind flowing over the US.
Kepler’s Tally of Planets

NASA's Kepler mission has discovered more than 950 confirmed planets orbiting distant stars. Planets with a known size and orbit are shown below, including Kepler 186f, an Earth-size planet in the habitable zone. Related Article

Relative size of planets
- Earth
- Neptune
- Jupiter

Relative size of Mercury's orbit
- Sun
- Mercury

Stars and planets are enlarged for visibility.

Sort by system size  Sort by order of discovery
Romney's Shift Wasn't Enough

Most of the nation shifted to the right in Tuesday's vote, but not far enough to secure a win for Mitt Romney.

Republican Gains Among Whites Yield Few Battleground State Victories

Mr. Obama won despite losing the support of white voters by wide margins. Overall, he lost this group by 19 percentage points,
Keine Zeit für Wut – NZZ, Interactive Things
Three uses

Animation as transition
This work was originally developed between 2002 and 2004 using Processing. The version seen above was ported to JavaScript in 2013.
Taxonomy of transitions
Taxonomy of transitions

Transformation of the view
Der Erste Weltkrieg im Überblick

Ereignisse und Frontverläufe

1914
1. Februar
Deutschland erklärt den uneingeschränkten U-Boot-Krieg

8. März
Februarrevolution in Russland

6. April
Kriegseintritt der USA und Griechenlands

1915
1. August
Friedensnote des Papstes Benedikts XV.

1916
14. August
Kriegserklärung Chinas an Deutschland und Österreich-Ungarn

1917
7. November
Oktoberrevolution in Russland


1919
In Petersburg regieren die Bolschewiken

1920
Ministerpräsident Lenin
Valletta, Malta
Taxonomy of transitions

Change of representation
Wie sich Taschendiebe und Polizisten in 26 Kantonen begegnen – NZZ, Interactive Things
Taxonomy of transitions

Transformation of the surface
Four Ways to Slice Obama’s 2013 Budget Proposal

Explore every nook and cranny of President Obama’s federal budget proposal.

How $3.7 Trillion Is Spent
Mr. Obama’s budget proposal includes $3.7 trillion in spending in 2013, and forecasts a $901 billion deficit.

Circles are sized according to the proposed spending.

Color shows amount of cut or increase from 2012.

Chart shows $3.7 trillion authorized to be spent in 2013. (Total spending is estimated to be $3.8 trillion, including funds authorized in other years). Negative budget authority, which results from fees or other collections, is shown only on the department totals tab, but is included in other totals.

By SHAN CARTER | Send Feedback
Office of Management and Budget
Taxonomy of transitions

Timestep
Mapping the Spread of Drought Across the U.S. – New York Times
Taxonomy of transitions

Change of data structure
Die Listengruppen 09 (SD), 10 (BDP), 11 (AHS), 12 (Piraten) und 13 (EDU) haben das 5%-Quorum nicht erreicht und sind folglich von der Sitzzuteilung ausgeschlossen.

<table>
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<th>Partei</th>
<th>2014</th>
<th>2010 – 2014</th>
<th>%</th>
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<td>SP</td>
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Wahlbeteiligung: 42,6%
Taxonomy of transitions

Reordering
Beitrag zur Lebensqualität

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<th>Unternehmen</th>
<th>Genannte</th>
<th>Aufgabenfolllaltung</th>
<th>Zusammenhalt</th>
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Taxonomy of transitions

Filtering
**Beitrag von 2 Sektoren zum Gemeinwohl**

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Ten commandments principles of transitions
Core principles

Congruence & Apprehension
Core principles

Congruence
1
Respect semantic correspondence
Congruence principles

2

Avoid ambiguity
Congruence principles

3
Maintain valid graphics throughout a transition
Congruence principles

4

Maintain valid mappings across graphics

Presented by Interactive Things
Ten principles

Apprehension
Apprehension principles

5

Group similar transitions
Apprehension principles

6

Minimize occlusion
7
Maximize predictability
Apprehension principles

8
Use simple transitions
9
Stage complex transitions
Apprehension principles

10
Make transitions as long as needed but not longer
This has a big effect on the overall mortality rate, because old people die sooner than the young.
High rates of premature births are the main reason the United States has relatively high infant mortality. Most rich countries provide more comprehensive care for pregnant women, which appears to reduce the risk of preterm birth, than the United States does.
37% of New Yorkers suffer severe material hardships

In 2012 nearly four of ten New Yorkers faced a persistent shortage of critical resources or underwent an episode of acute deprivation, such as staying in a shelter, having utilities shut off or being unable to pay for a doctor.

How is health tied to scarce financial and material resources?
THANK YOU

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