



CONTAGIOUS

Ways of Seeing /

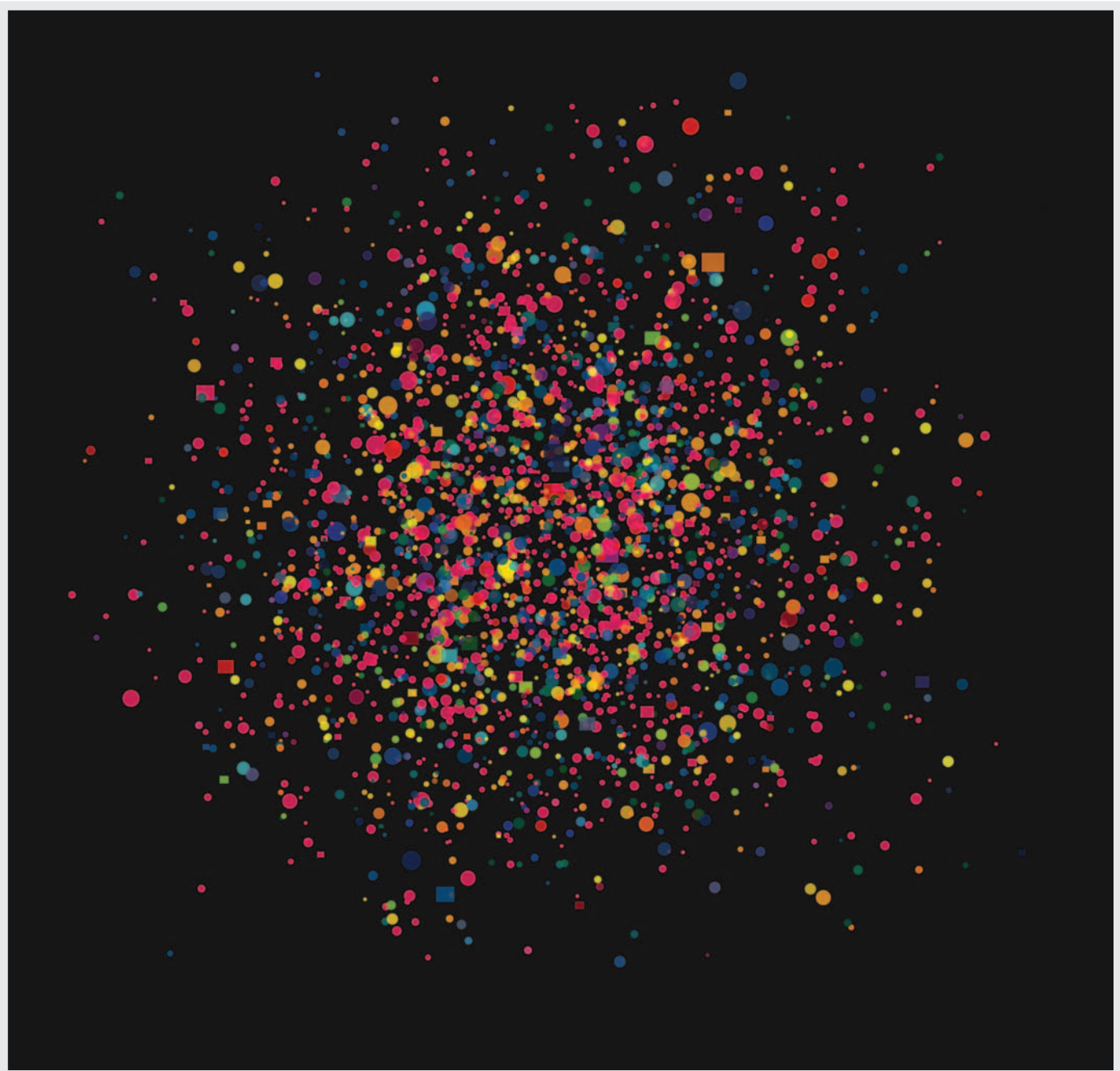
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www.contagiousmagazine.com

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Ways of Seeing / The art of data / By Faris Yakob and
Noah Brier /





10X10 /

Best In Class: Data Art

The undisputed master of the visual display of information is **Edward Tufte**, who has been railing against poor representations of data, or chartjunk, since he published *The Visual Display of Quantitative Information* in the 1980s. Tufte draws on French civil engineer Charles Minard's famous graphic published in 1869 for inspiration, showing the movement of Napoleon's army in the disastrous Russian campaign of 1812.

www.edwardtufte.com

But many in webworld actively began to take an interest in data visualisation because of Hans Rosling.

At TED in 2006 he debunked myths about the 'developing world' using **Trendalyzer** software to turn complex global data into startling animations – the software was quickly snapped up by Google.

www.ted.com/index.php/talks/view/id/92

www.gapminder.org

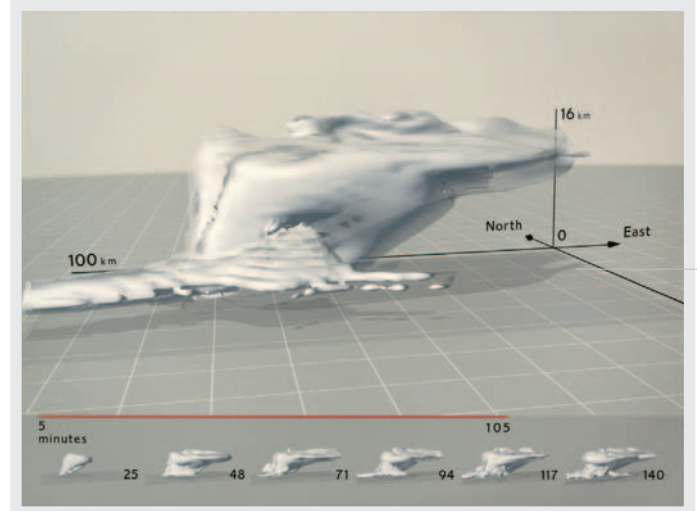
In fact, Google is very interested in visualisation – its mission is to 'organise the world's information and make it universally accessible and useful', therefore visualising it is a vital next step. **The Google Visualization API** provides a platform to create and share visualisations as Google Gadgets, just by importing data from Google Spreadsheets.

<http://code.google.com/apis/visualization>

But visualisations are about more than just numbers. The web is a constantly expanding data set of endless types of information. Turning parts of it into pictures helps our minds to grasp them.

Newsmap, by **Marcos Weskamp**, is an application that visually reflects the constantly changing landscape of the Google News aggregator. It divides news into recognisable bands that help reveal underlying patterns in news reporting as they change over time.

So the aesthetic of the application transmits additional information about the information – metadata – allowing us to perceive the patterns. It also introduces an important concept in data representation – the idea of weighting:



EDWARD TUFT / STORM CLOUDS /



NEWSMAP /

the larger the words in each story, the more related articles found via Google. So, by weighting the word, you can communicate its relative importance in the data set.

<http://marumushi.com/apps/newsmap/newsmap.cfm>

Digg is different – it's a community-based news aggregator, where the members vote on stories to indicate their relative importance. Digg collaborated with design and technology studio Stamen to create Digg Labs to provide a 'broader and deeper view of Digg'.

BigSpy is a weighted, scrolling representation of stories as they appear, in real time, whereas Stack shows what stories are being voted on.

<http://stamen.com>

<http://labs.digg.com>

<http://labs.digg.com/bigspy>

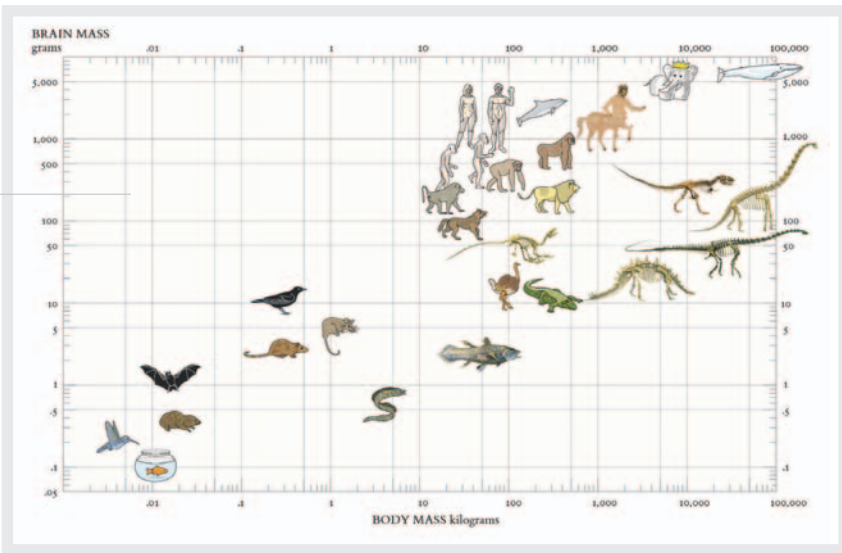
<http://labs.digg.com/stack>

Due to its continuously updating nature, news makes for ideal real time representation.

One of Jonathan Harris' earliest projects was 10x10 – an hourly visualisation of the news. It collects words and pictures from news sources and arranges them into a 10x10 grid. Arranged like that, the viewer instinctively responds to patterns in the grid – images that are repeated seem important, and the bizarre juxtaposition of modern news, celebrities and wars sharing equal importance is highlighted.

<http://tenbyten.org>

Harris also created We Feel Fine, which applies the same kind of thinking to human emotions. At its core,



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We Feel Fine is a data collection engine that scrapes information from various blogging platforms every few minutes, looking for occurrences of the phrases 'I feel' and 'I am feeling'. It then grabs the sentence up to the break, alongside some profile data about the author from the blogging profile.

This data can be queried using a graphical interface, which displays how the web is feeling as a swarming mass of particles, each one representing a human feeling. The colour of each particle responds to specific types of feeling: happy feelings are brightly coloured, negative feelings are dark. Any dot can be clicked and expanded to display the whole sentence. The dots themselves exhibit human qualities – they have a specific physics and they swarm around randomly, exploring the screen, but become curious about the mouse cursor and cluster around it.

Harris looks to represent data appropriately: 'This is very important to me in the work that I produce: The way something is expressed visually corresponds to the nature of the thing being expressed.'

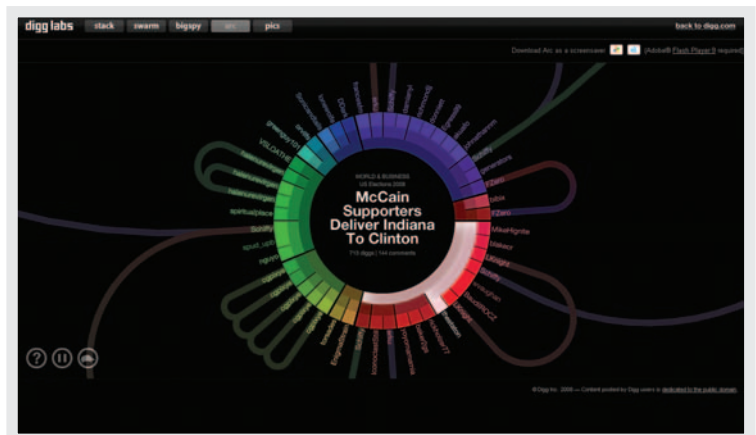
This blending of signifier and signified is peculiarly modern – words have no real connection to the concepts they represent. The gap between how something looks and what it means is eroded in the art of visualisation.
<http://wefeelfine.org>

In order to understand and categorise information, we need to classify it. The Dewey Decimal system is a top down way of structuring information but today the world is increasingly describing itself. Metadata used to be what a computer used to describe files to itself, but web users delight in definition, assigning tags to posts and pictures.

Combine tags with weighting and you get tag clouds – weighted collections of words that describe the content of a data set as an evolving word image. **TweetClouds** turns your **Twitter** stream into a tag cloud of your own life.
www.tweetclouds.com



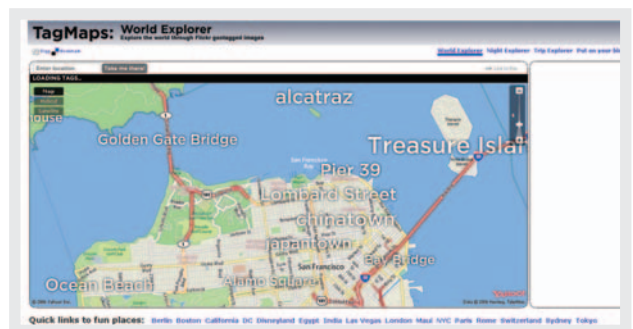
TWEETCLOUDS /



DIGG /

As devices become more spatially aware, enabled by location-specific technologies such as acronyms, GPS and RFID, data will increasingly be added to maps and locations. Tagmaps are geo-folksonomies – socially constructed maps made up of tags appended to images from specific locations that portray how people see places.

<http://tagmaps.research.yahoo.com>



TAGMAPS /

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