Big Data and Classification

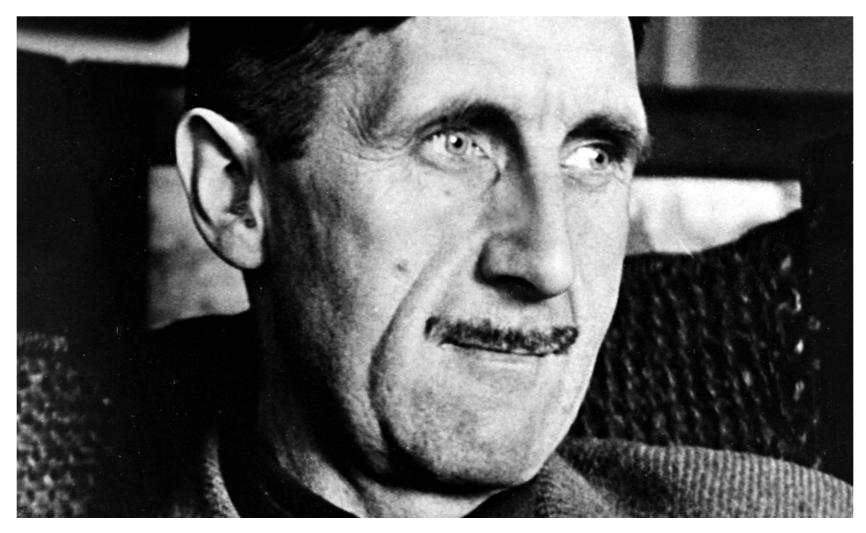


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A Dystopian Future



George Orwell feared those who would deprive us of information. He feared the truth would be concealed from us.

He never imagined "Big Data"

A glut of information that would conceal understanding

In 9.5 minutes or less...

Convince you that without classification

BIG DATA FAILS

clas·si·fi·ca·tion

/,klasəfə kāSH(ə)n/

noun

the action or process of classifying something according to shared qualities or characteristics.

"the classification of disease according to symptoms"

synonyms: categorization, categorizing, classifying, grouping, grading, ranking,
organization, sorting, codification, systematization

"the classification of diseases"

- another term for taxonomy.
- · a category into which something is put.

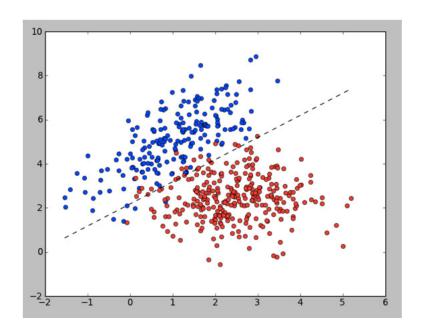
plural noun: classifications
synonyms: category, class, group, grouping, grade, grading, ranking
"a series of classifications"

Methods for Classification

Taxonomies

Phyla Annelida (Right World) (

Data Mining Classification



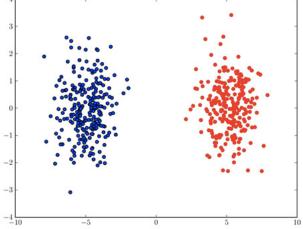




Classification Helps!

Group information by common attributes

• Easily compare similarities and differences



People Classify

Not Machines
Not Algorithms



All classification is done by humans at some point in the life of a datum



Or, mistaking the haystack for a pile of needles





People don't always agree



A Quiz for you...

On the next slide, I want you to tell me what these four types of data have in common

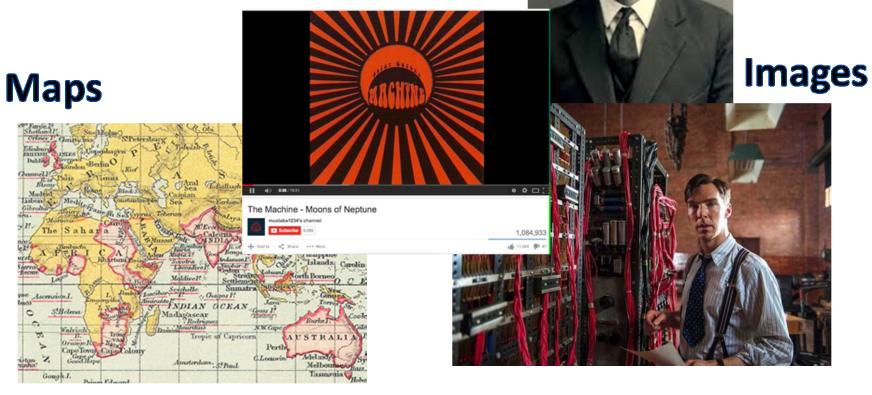
Raise your hand when you get the answer...

(don't worry, I won't call on anyone)

Text

"A computer would deserve to be called intelligent if it could deceive a human into believing that it was human."

Video/Audio



Did you get it right?

Alan Turing

The more data types we have The harder the classification

Classification Cracked The Enigma Code

158,962,555,217,826,360,000 possibilities

Turing used Classification of the data to narrow the problem set

1st A letter can never be itself2nd Known Phrases - The weather report

Without Classification

There is no Correlation

Without Correlation

The 'Classification Food Chain'

Classification shapes data

Shaped data enables data quality

Data Quality delivers confidence in results

Bad Classification Has Bad Consequences

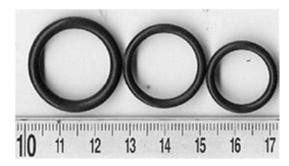
Elections are won



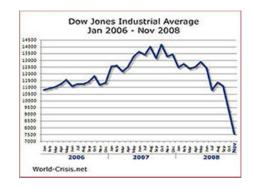


Shuttles explode





Financial Markets Meltdown





If you want to be confident in your Big Data results...

Invest in your classifications as they are critical to your success!

Thank You!

Paul Balas

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