



DV

TREE-MAP



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ABOUT

01

Used to display hierarchical data using nested rectangles.

02

Data, organized as branches and sub-branches

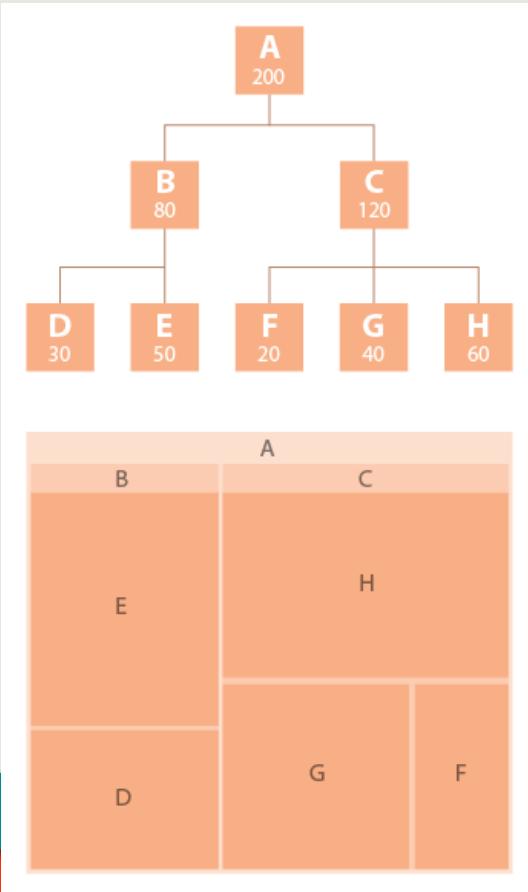
03

Allows users to drill down within the data.

Car Sales



ANATOMY



- When a quantity is assigned to a category, its area size is displayed in proportion to that quantity
- The way rectangles are divided and ordered into sub-rectangles is dependent on the tiling algorithm used.
- Originally developed as a way of visualising a vast file directory on a computer, without taking up too much space on the screen.

IDEAL CASES

01

Data needs to be
studied w.r.t two
quantitative values

02

Large amount of
hierarchical data and
a space constraint

03

Quick, high level summary
of the similarities and
anomalies

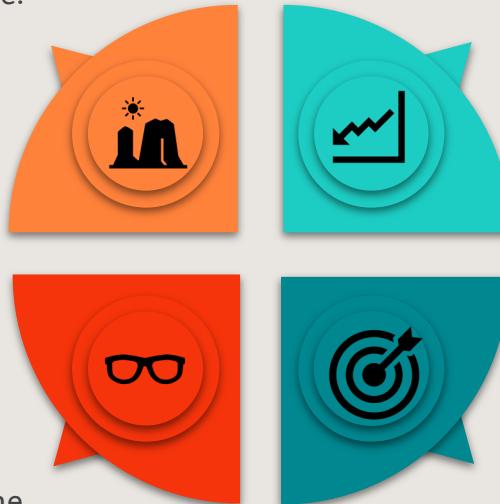
04

Data need to be organized at
several levels



LIMITATIONS

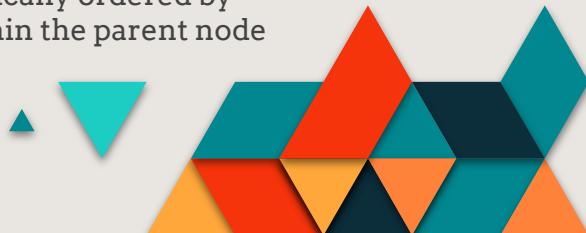
Cannot display data that varies in magnitude.



Gauging the area of the rectangle is slight difficult when compared to other charts

The variable standing for the size of the rectangle cannot have a negative value.

The rectangles are automatically ordered by area within the parent node



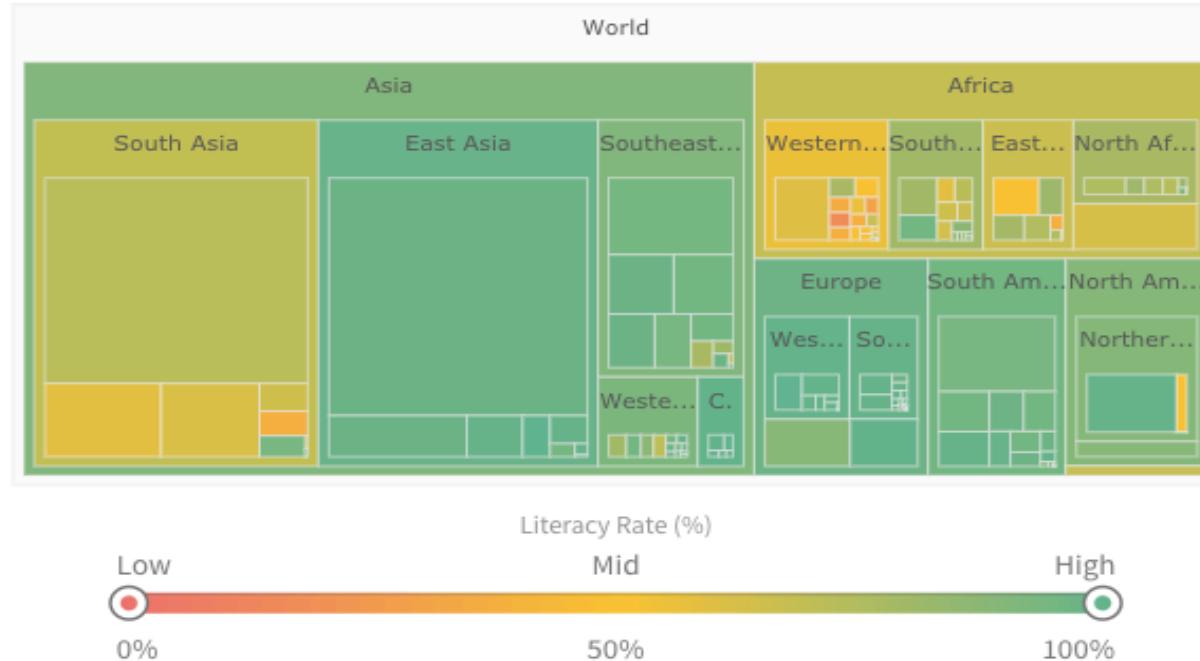
Hybrid types



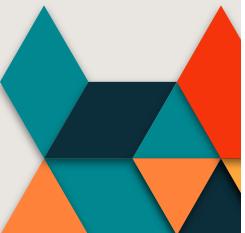
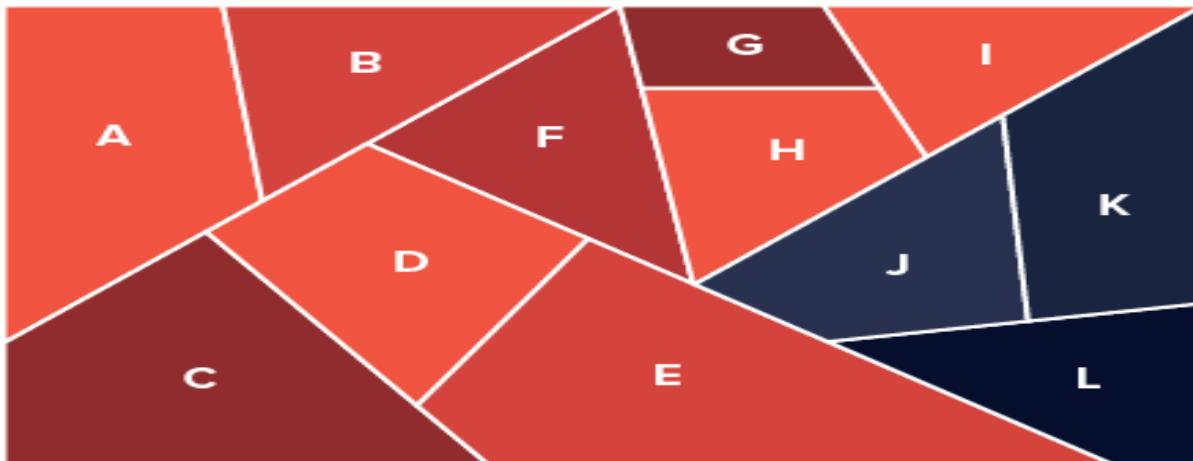
Heat Tree Map

Region-wise Literacy Rates in 2015

World Population

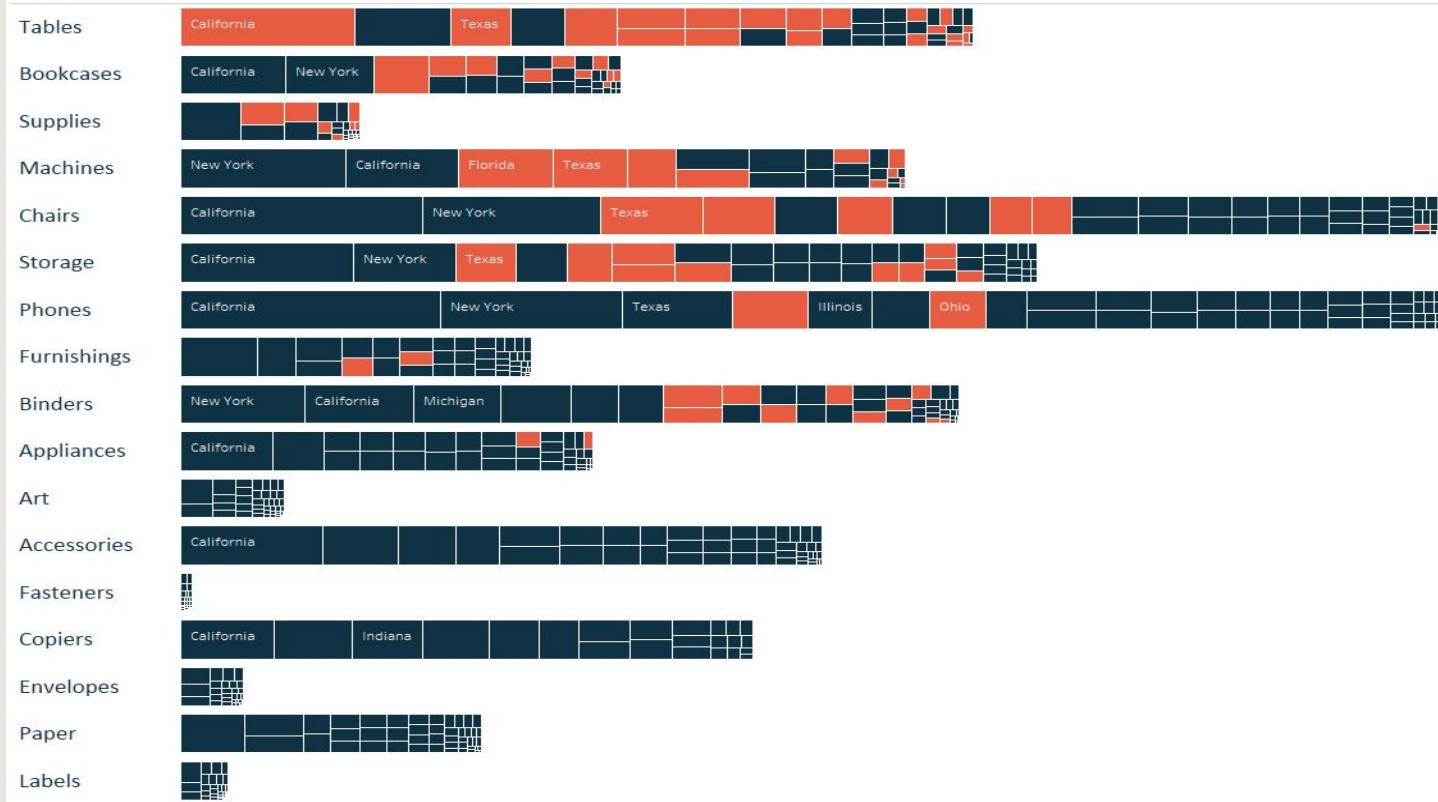


Convex Tree Map



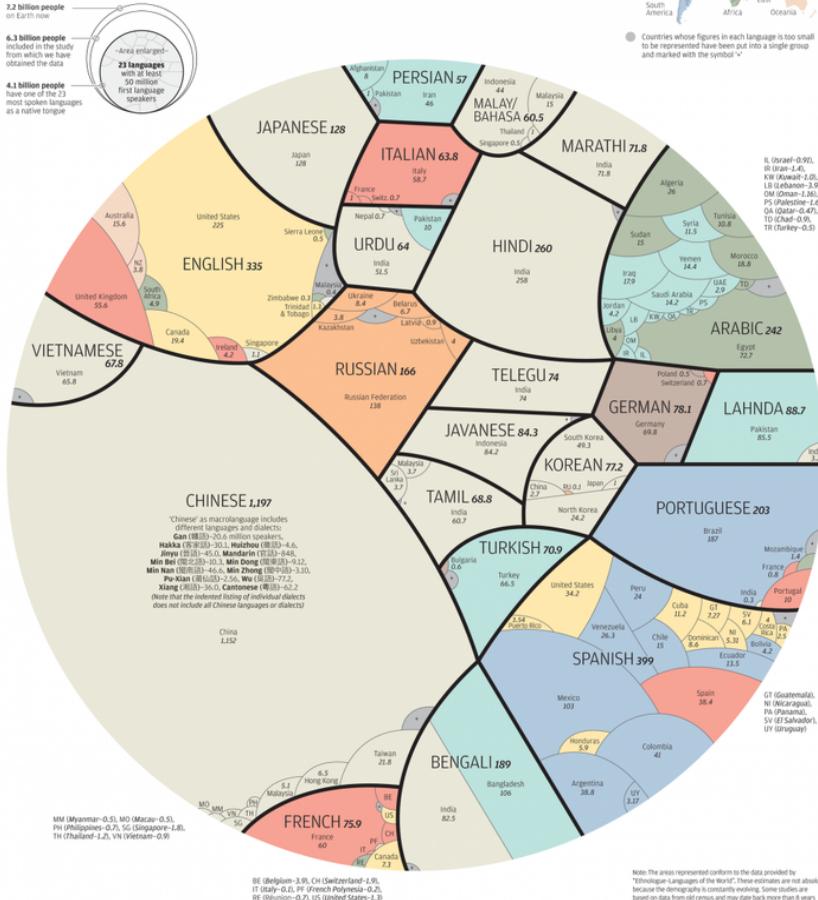
Bar Tree Graph

Sales and Profit Ratio by Sub-Category and State



A world of languages

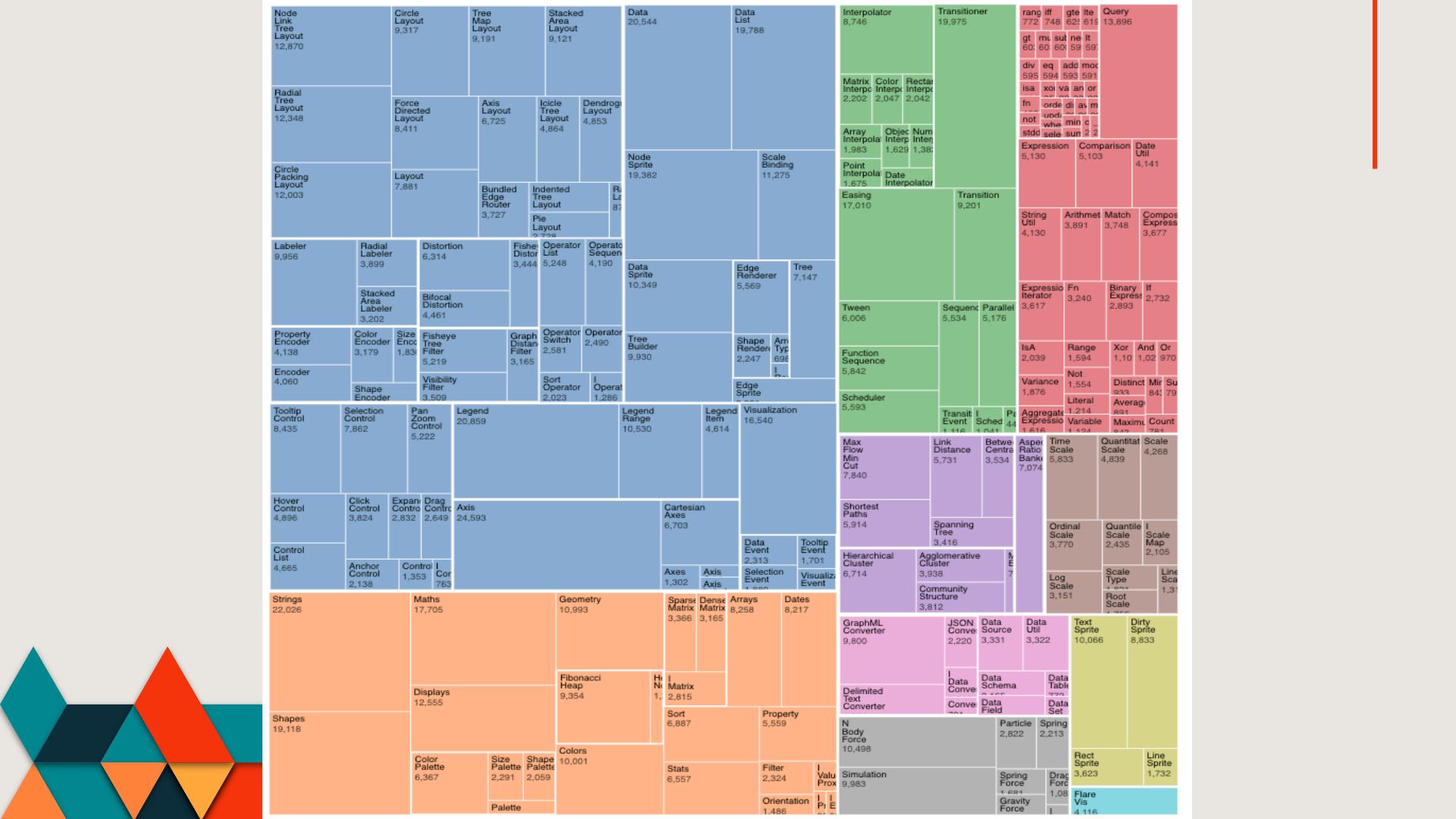
There are at least 7,102 known languages alive in the world today. Twenty-three of these languages are a mother tongue for more than 50 million people. The 23 languages make up the native tongue of 4.1 billion people. We represent each language within black borders and then provide the numbers of native speakers (in millions) by country. The colour of these countries shows how languages have taken root in many different regions.



Pie-Tree Map



Treemap Example with code in d3.js



1990 248,709,873

1980 226,545,805

1970 203,211,926

1960 179,323,175

1950 151,325,798

1940 132,164,569
1930 123,202,624

1920 106,021,537

1910 92,228,496

1900 76,212,168

1890 62,979,766

1880 50,189,209

1870 38,558,371

1860 31,443,321

1850 23,191,876

1840 17,063,353

North Carolina	Maryl.	Tennessee	New York	Pennsyl.
753,419	470,0	829,210	2,428,921	1,724,03
Virginia	South	Kentucky		
1,025,227	594,31	779,828		
Georgia	Alabama			
691,392	590,756			
Louisiana	West	Mississippi	New Jersey	
Ark.	1 224,51	375,651	737,66	
Illinois	Ohio	Mis	Mass Conn	New
476,11	1,519,467	38	737,66	1,284
Michigan	Indiana		Maine	
212,2	885,866		501,79	Verm
				291,9





References

- 1 D3js.org
 - 2 Wikipedia.com
 - 3 Fusioncharts.com
 - 4 Blocks.org
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THANKS!

