



SCU VIS

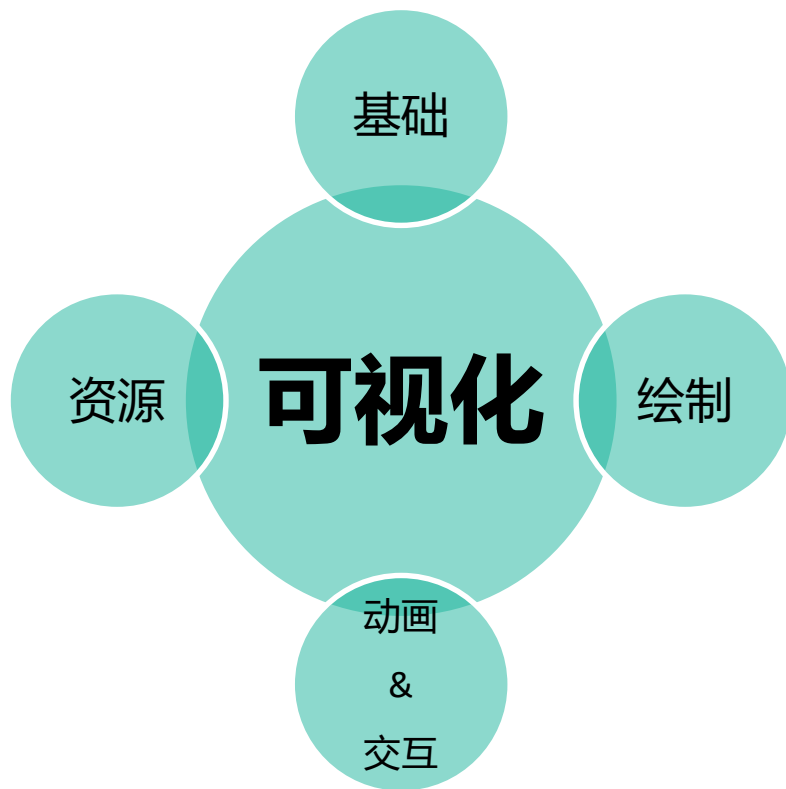
可视化工具

& 平台分享

梁 晶

2018年10月17日

概 览





01

PART 01

第一部分

from Data to Viz

From Data to Viz

from Data to Viz

EXPLORE STORY ALL CAVEATS POSTER ABOUT CONTACT

A WORLD OF POSSIBILITIES

Here is an overview of all the graph types presented in this website.

Show all

Distribution

Correlation

Ranking

Part of a whole

Evolution

Map

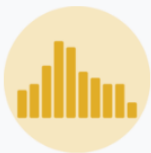
Flow



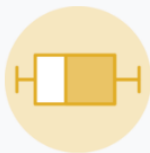
Violin



Density



Histogram



Boxplot



Ridgeline



Scatter



Heatmap



Correlogram



Bubble



Connected scatter



Density 2d



Barplot

From Data to Viz

from Data to Viz

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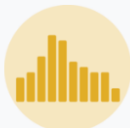
Flow



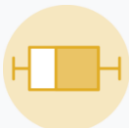
Violin



Density



Histogram



Boxplot



Ridgeline



Scatter



Heatmap



Correlogram



Bubble



Connected scatter



Density 2d



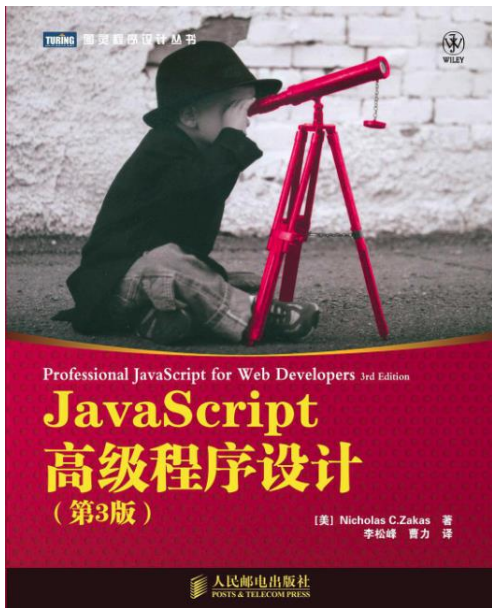
Barplot



Order your data

When displaying the value of several entities, ordering them makes the graph much more insightful.

JAVASCRIPT

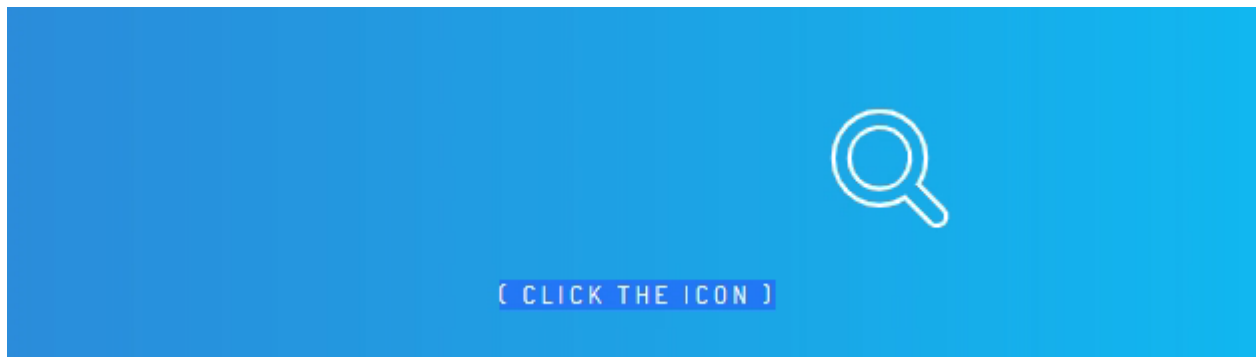


JavaScript高级程序设计



ECMAScript 6 入门

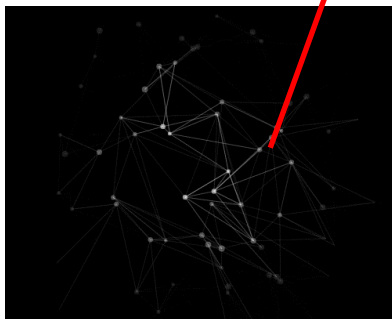
SVG vs CANVAS



SVG vs CANVAS



SVG vs CANVAS



SVG vs CANVAS

SVG

- 不依赖分辨率
- 支持事件处理
- 复杂情况不适用


CANVAS

- 依赖于分辨率
- 不支持事件处理
- 适用于数据量较大的情况

Snap.svg



```
// First lets create our drawing surface out of existing SVG element  
// If you want to create new surface just provide dimensions  
// like s = Snap(800, 600);  
var s = Snap("#svg");
```

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 



02

PART 02

第二部分
绘 制

D3.js

[Overview](#) [Examples](#) [Documentation](#) [Source](#)

Data-Driven Documents

Fork me on GitHub



D3

Mike Bostock

A Better Way to Code

April 28, 2017



Command-Line Cartography

December 9, 2016

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D3作品集



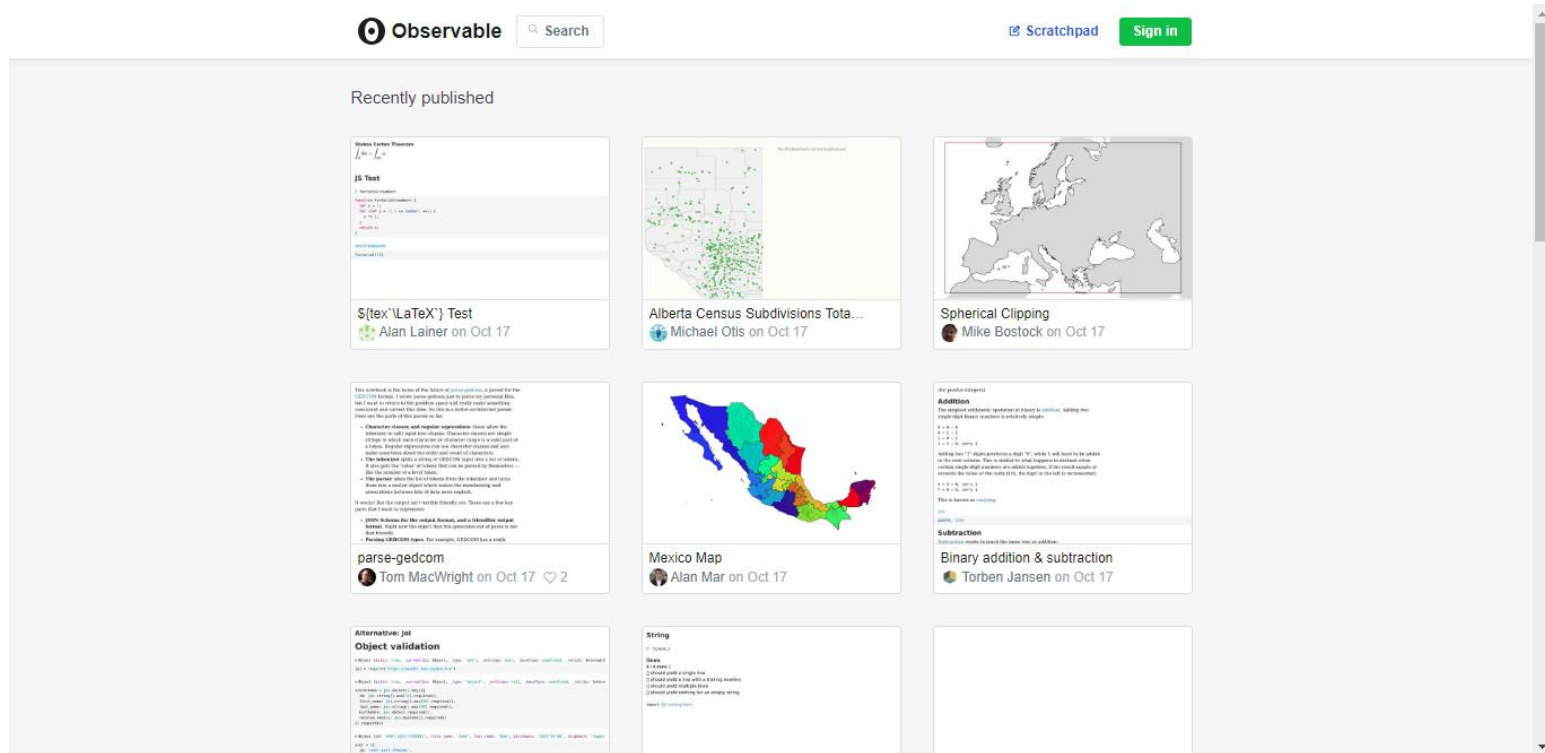
Search the Bl.ocks

any version ▾
☐ with thumbnail image

Showing 512/38275 of the most recently created blocks.

Exercise - simple weather line c... @sanvyx	stacked normalized hz pk! @noblemillie	DME transparency and satellite i... @andyrutkowski	(Radial) bar chart @jwilber	basic waffle chart @jwilber
Voronoi Sorting @jwilber	Sorting the Grid @jwilber	Vertical Grid Lines @jwilber	Bubble Chart WIA @mwalks	Interrupted Quartic Authalic Proj... @piwodlaiwo
uses insert to paint links over cir... @RoverHL	Quartic Authalic with D3v4 @piwodlaiwo	Interrupted Mollweide Hemisphe... @piwodlaiwo	fresh block @RoverHL	Force Layout In Box @mforando
tech tree @headwinds	Leaflet.js - Simple Map @Hirosaji	Mobile Nav no JS @slattery	DLF two maps plus one data layer @andyrutkowski	animated bar chart with labels @FrissAnalytics
animated bar chart with labels @sierra073	swimlanes1 @booth23	swimlanes @booth23	Side Sliding Menu CSS @slattery	Map with Voronoi Polygons for T... @jeremycflin

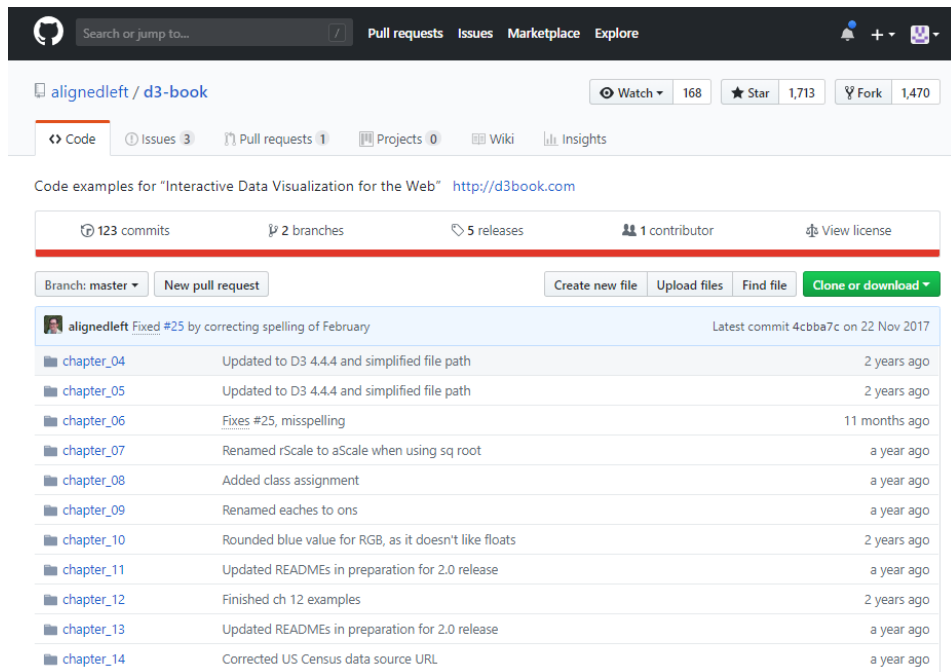
D3作品集: Observable



D3基础教程



LearningD3.js



D3-book

LearningD3.js: <https://d3js.org/>

D3-book: <https://github.com/alignedleft/d3-book/> 可视化工具及平台分享

D3-Annotation

D3-ANNOTATION

Made with ❤ by [Susie Lu](#)

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API

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Notes

#INTRODUCTION

Annotations **establish context, and direct our users to insights and anomalies**. So why are annotations so few and far between in visualizations on the web? Because **implementing them is difficult**.

But it shouldn't be.

Use d3-annotation with built-in annotation types, or extend it to make custom annotations. It is made for [d3-v4](#) in SVG.

Contact me through the [github repo](#) or [twitter](#).

D3-Annotation

D3-ANNOTATION

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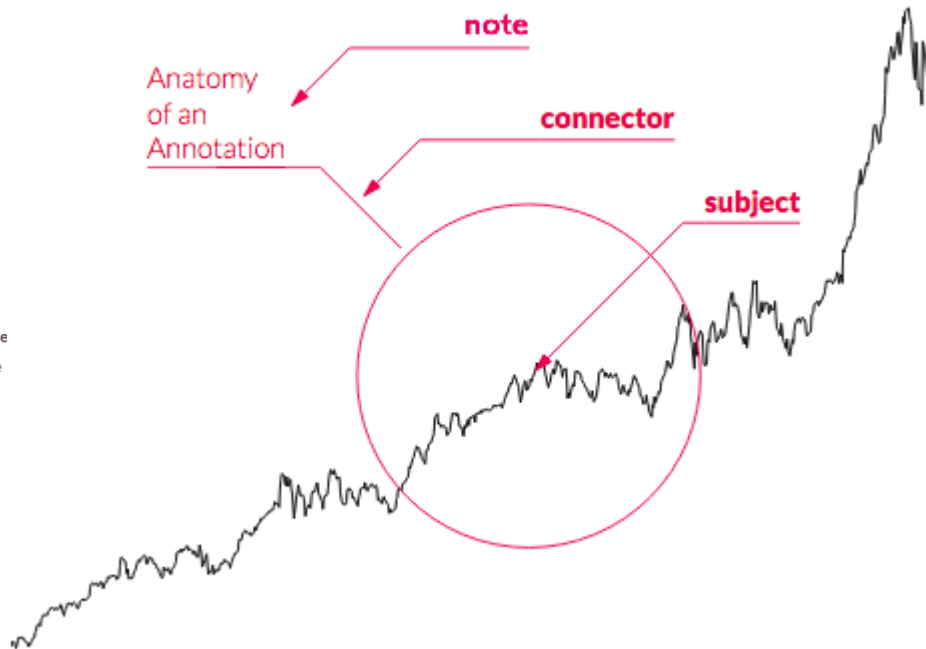
#INTRODUCTION

Annotations **establish context, and direct our users to insights and anomalies** are annotations so few and far between in visualizations on the web? Because **implementing them is difficult.**

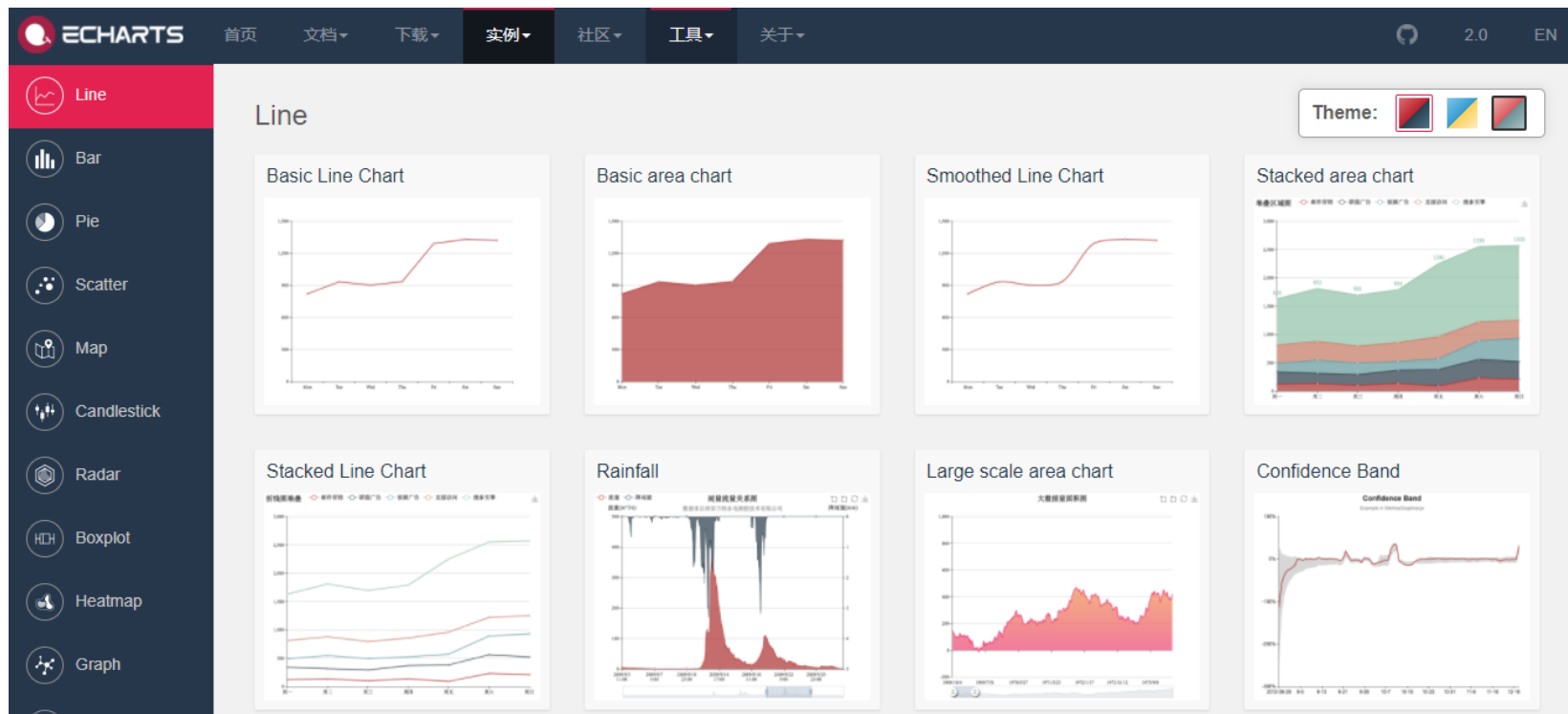
But it shouldn't be.

Use d3-annotation with built-in annotation types, or extend it to make custom annotations. It is made for [d3-v4](#) in SVG.

Contact me through the [github repo](#) or [twitter](#).



ECharts



AntV – G2



G2

搜索

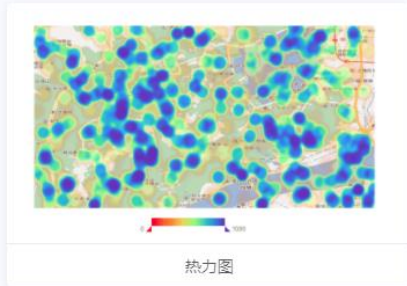
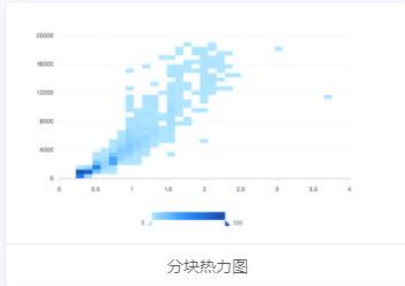
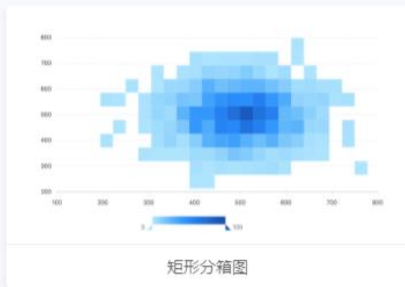
图表示例

API 文档

使用教程

返回旧版

热力图



折线图
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饼图
点图
面积图
箱形图
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热力图
仪表盘
漏斗图
地图
雷达图
分面
关系图
其他图表

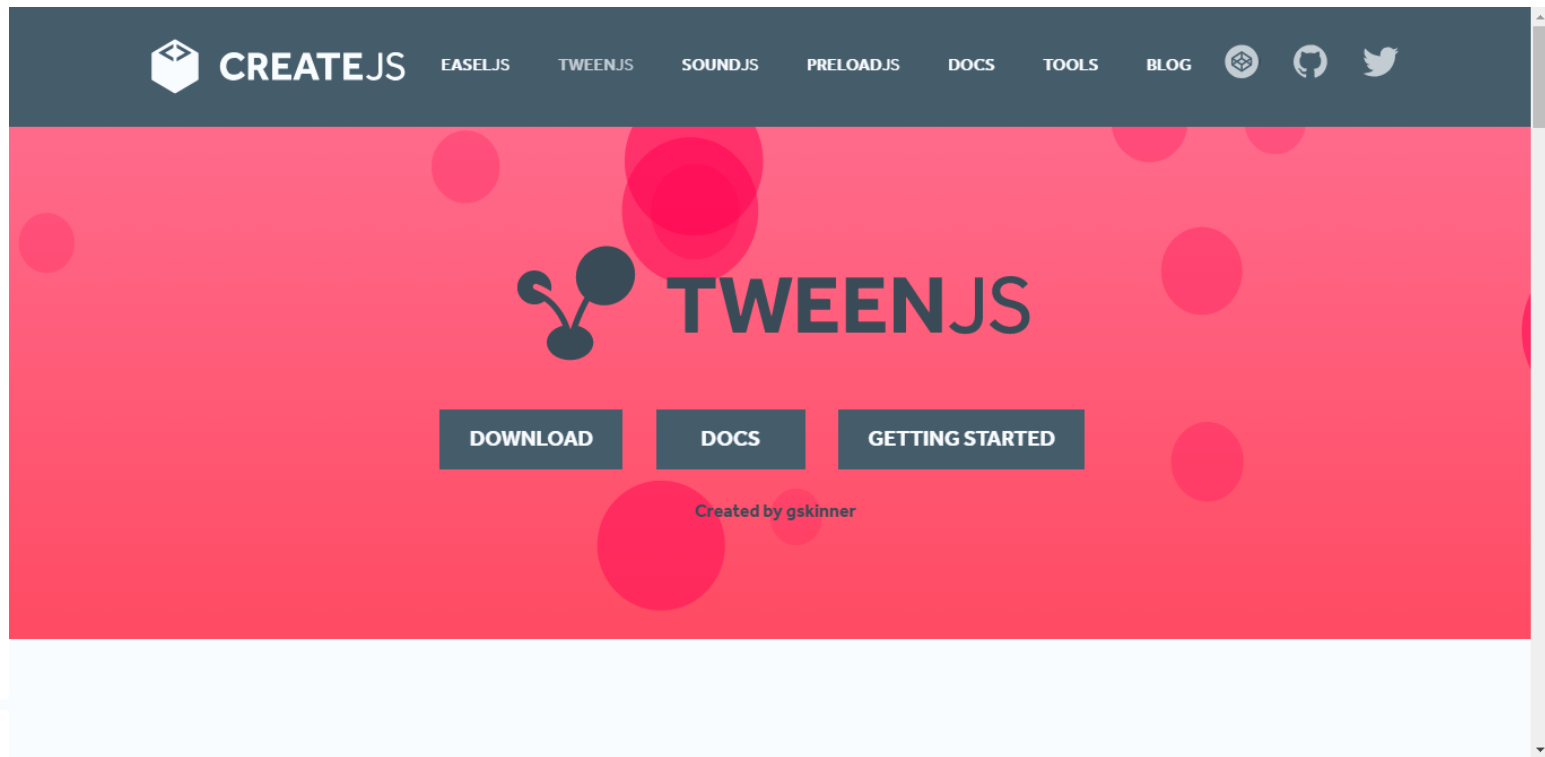


03

PART 03

第三部分
动画&交互

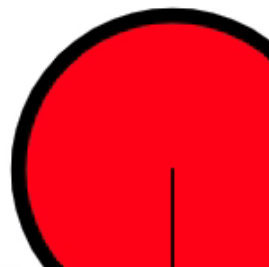
Tween.js



<https://www.createjs.com/tweenjs>

可视化工具及平台分享

Tween.js



Paper.js: HTML5 Canvas

Paper.js

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About

Paper.js — The Swiss Army Knife of Vector Graphics Scripting.



Paper.js is an open source vector graphics scripting framework that runs on top of the HTML5 Canvas. It offers a clean Scene Graph / Document Object Model and a lot of powerful functionality to create and work with vector graphics and bezier curves, all neatly wrapped up in a well designed, consistent and clean programming interface.



Paper.js is based on and largely compatible with Scriptographer, a scripting environment for Adobe Illustrator with an active community of scripters and more than 10 years of development.

Paper.js is easy to learn for beginners and has lots to master for intermediate and advanced users.

Paper.js is developed by Jürg Lehni & Jonathan Puckey, and distributed under the permissive MIT License.

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Paper.js: HTML5 Canvas



`ring.intersect(square)`

GreenSock: 动画库

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可视化社区

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Choropleth map design considerations

Lisa Charlotte Rost for Datawrapper provides guidance for designing choropleth ...

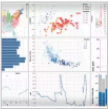


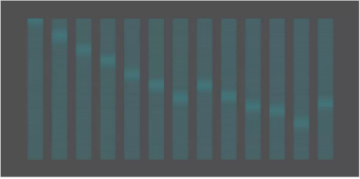
Citizenship question returning to Census

Emily Baumgaertner reporting for The New York Times: But critics ...

Altair for visualization in Python

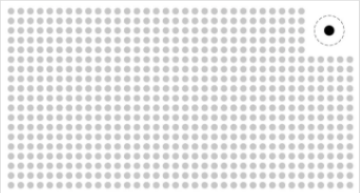
Vega-Lite is a grammar for interactive graphics primarily





Most Common Occupation by Age

As we get older, job options shift — along with experience, education, and wear on our bodies.



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Infographics <i>Explaining data</i>	Sources <i>Getting data</i>
Networks	Design

Three.js: 3D + Javascript

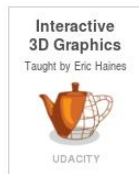
three.js ^{r87}

documentation
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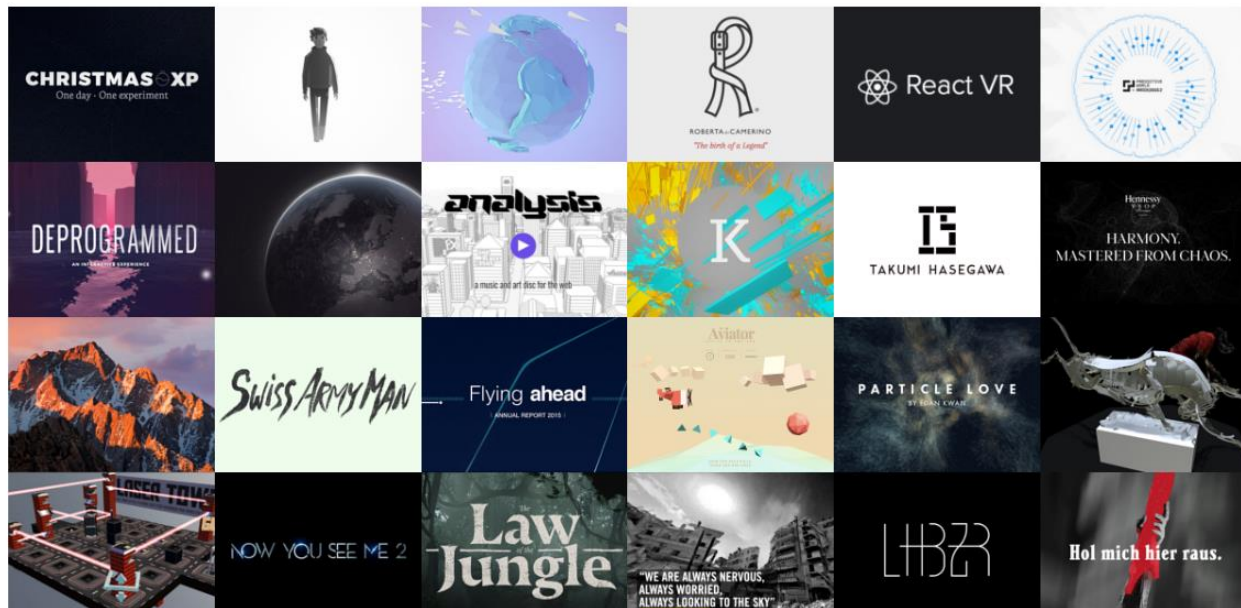
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04

PART 04

第四部分
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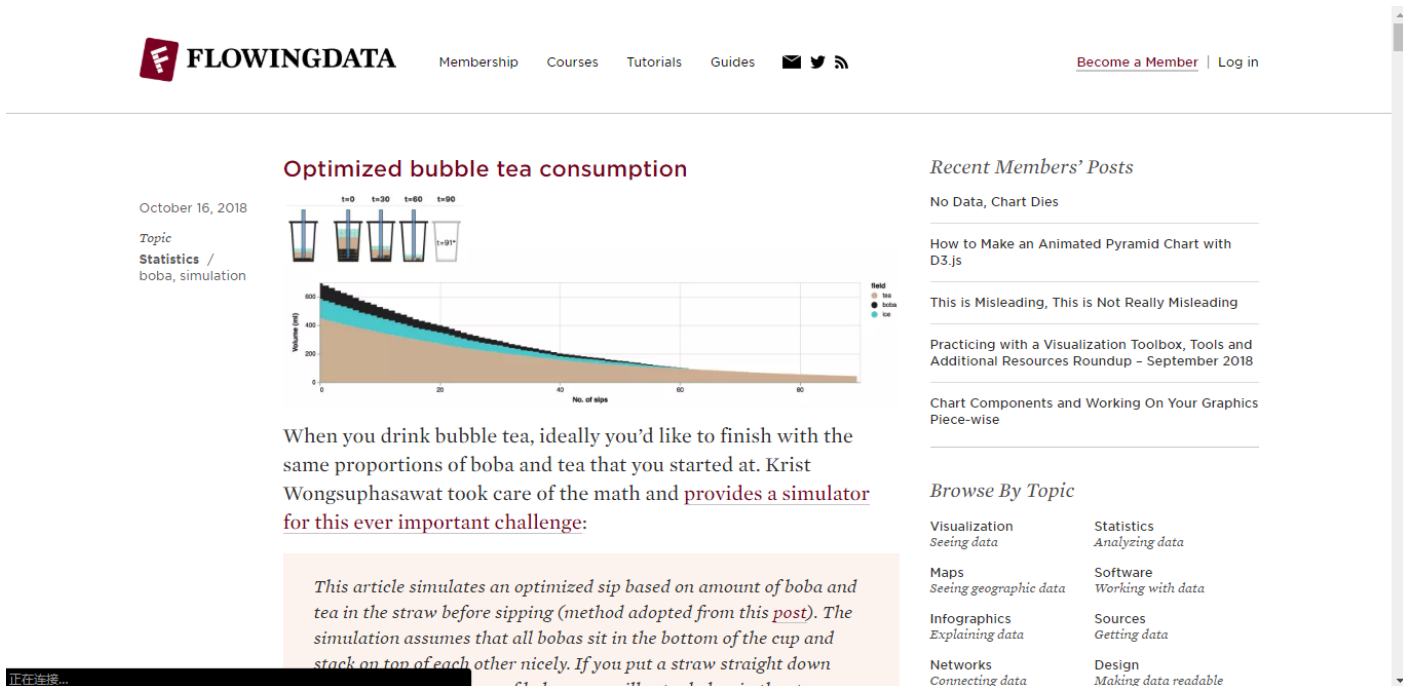
可视化社区

- **Flowing Data**

<http://flowingdata.com/>

- **Information is Beautiful**

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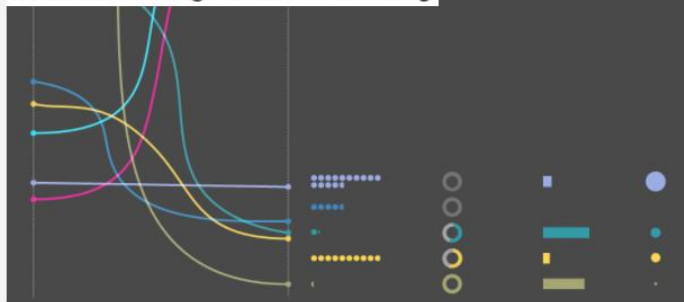
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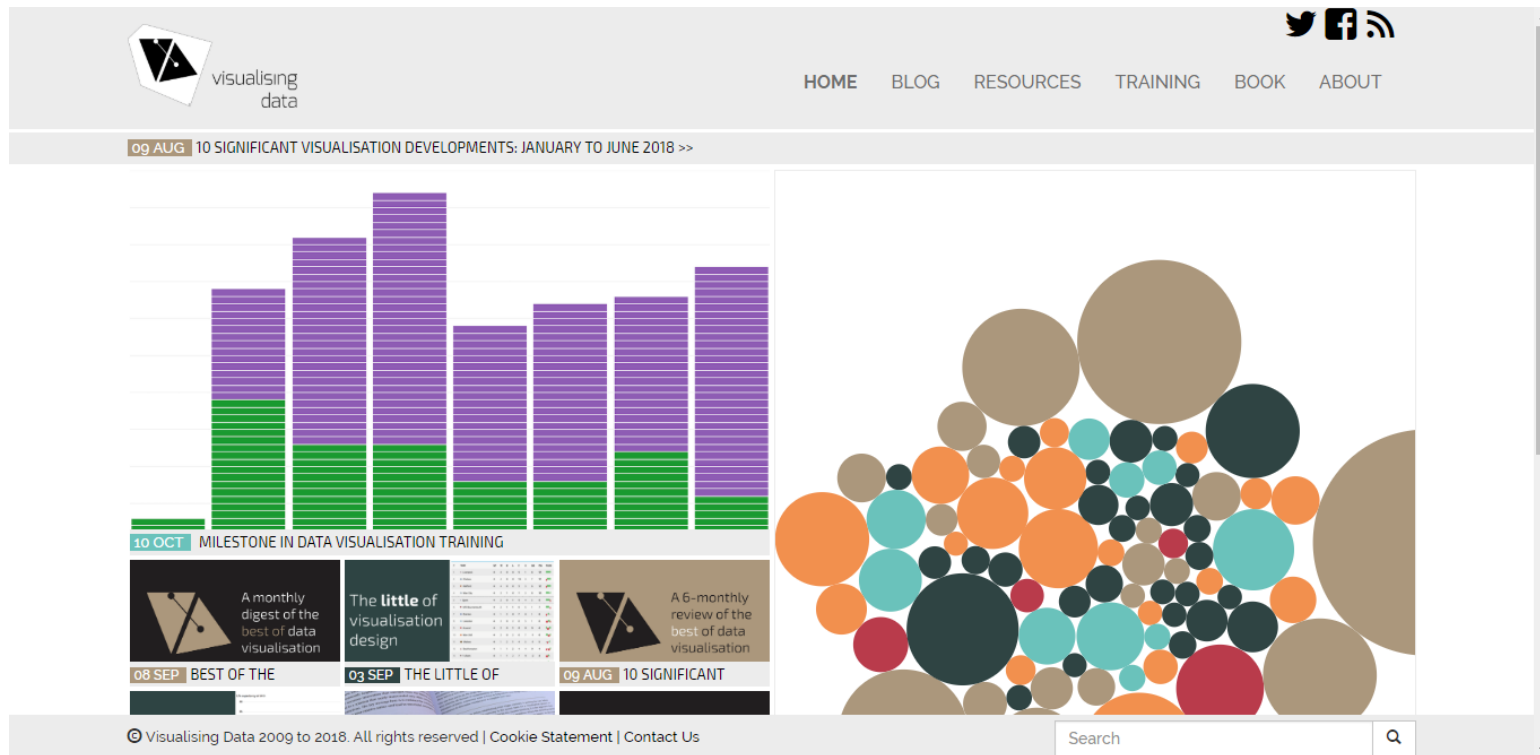
Rhetological Fallacies - A list of Logical Fallacies & Rhetorical Devices with examples



What Streaming Music Services Pay



可视化社区: visualisingdata



可视化研究：三大会议

IEEE VIS

Pacific Visualization

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WELCOME TO **IEEE VIS 2018** IN BERLIN!

IEEE VIS is the worldwide largest and most important conference on Scientific Visualization, Information Visualization and Visual Analytics. It is the premier forum for advances in visualization in academia, science, government, industry, and beyond.

The IEEE VIS conference comes - for the second time - to Europe! Berlin is one of the most vibrant and interesting cities in Europe. It offers many cultural highlights, historic sites, touristic sightseeing as well as plenty of restaurants and entertainment around. Explore this unique city along with attending IEEE VIS! Despite being a hotspot, hotel and restaurant prices are still rather affordable in Berlin.

The conference will be held **21-26 October 2018** in the Estrel Hotel Berlin. It will include programs for students, academics, artists, industry and commercial practitioners, government researchers, and anyone with interests in visualization and data analytics. In recent years, the conference attracted more than 1000 participants from dozens of countries to a week of research presentations, tutorials, workshops, panels, demonstrations, posters and exhibitions.

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Capstone Address
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VAST Challenge

可视化研究：三大会议

IEEE VIS

Pacific Visualization

EUROVIS



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Welcome to IEEE Pacific Visualization 2019

The 12th IEEE Pacific Visualization Symposium (PacificVis 2019) will be held in Bangkok, Thailand during April 23 to 26, 2019.

Visualization has become an increasingly important research area due to its wide range of applications in many disciplines. PacificVis is an IEEE sponsored international visualization symposium held in the Asia-Pacific region, with the objective to foster greater exchange between visualization researchers and practitioners, and to draw more researchers in the Asia-Pacific region to enter this rapidly growing area of research.

可视化研究：三大会议

IEEE VIS

Pacific Visualization

EUROVIS



// **WELCOME TO EUROVIS 2019**

The 21st edition of EuroVis will be organized in Porto, Portugal. The EuroVis 2019 will be hosted by the GPCG, the Portuguese chapter of Eurographics, in association with INESC-ID Lisboa and INESC-TEC. EuroVis is the annual Visualization Conference organized by the Eurographics Working Group on Data Visualization and supported by the IEEE Visualization and Graphics Technical Committee (IEEE VGTC). It has been a Eurographics and IEEE co-supported international visualization symposium held in Europe annually since 1999, has a conference since 2012.

<https://www.eurovis.org/>

可视化工具及平台分享

可视化研究：ChinaVis

ChinaVis 2018

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博士生论坛

委员会成员

历届会议



会议信息

中国可视化与可视分析大会 (ChinaVis) 由我国可视化业界工作者联合发起, 宗旨是促进中国及周边地区的可视化与可视分析研究与应用的交流, 探讨在大数据时代可视化与可视分析发展的方向与机遇, 推动相关研究与应用的发展与进步, 推进学科的发展, 促进人才培养和交流。会议将搭建与国内外著名专家、企业家、应用部门面对面交流, 深入研讨可视化前沿技术及其应用的交流和沟通平台, 促进中国可视化与可视分析领域产、学、研、用协同发展新生态的形成。中国可视化与可视分析大会分别于北京 (2014年)、天津 (2015年)、长沙 (2016年) 和青岛 (2017年) 举办, 会议汇集了国内外数百名可视化研究人员与领域专家, 取得了圆满成功。

可视化实验室：华盛顿大学

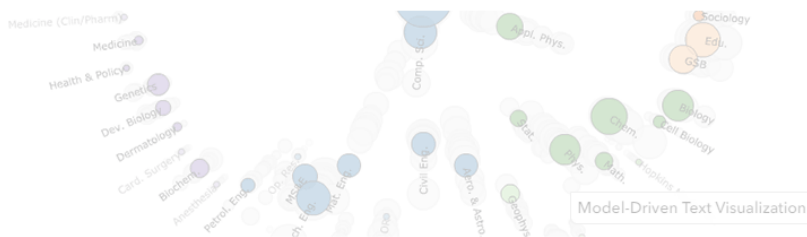


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UW Interactive Data Lab VISUALIZATION + ANALYSIS

OUR MISSION is to enhance people's ability to **understand and communicate data** through the design of new **interactive systems** for data visualization and analysis.



RECENT PUBLICATIONS (VIEW ALL PAPERS)

VIS 2018 - Berlin, Germany



Formalizing Visualization Design Knowledge as Constraints: Actionable and Extensible Models in Draco Dominik Moritz, Chenglong Wang, Gregory Nelson, Halden Lin, Adam M. Smith, Bill Howe, Jeffrey Heer *IEEE Trans. Visualization & Comp. Graphics (Proc. InfoVis)*, 2019
PDF | Software | Best Paper Award



Hypothetical Outcome Plots Help Untrained Observers Judge Trends in Ambiguous Data Alex Kale, Francis Nguyen, Matthew Kay, Jessica Hullman *IEEE Trans. Visualization & Comp. Graphics (Proc. InfoVis)*, 2019
PDF | Data

UPDATES

16 Aug 2018

Three new papers at VIS'18, including an InfoVis Best Paper Award for Draco!

15 Aug 2018

Catch our paper on the Idyll language for interactive articles at ACM UIST 2018!

10 May 2018

EuroVis'18 papers on SetCoLa for custom graph layout and the effects of task and data on visual encoding effectiveness.

可视化实验室：香港科技大学



HKUST VIS

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PUBLICATIONS

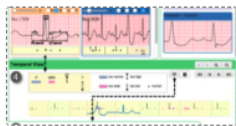
AWARDS

PHOTOS

CONTACT

Welcome to HKUST VisLab, a multidisciplinary group aiming at improving the visual analysis and various visualizations.

2018



ECGLens: Interactive Visual Exploration of Large Scale ECG Data for Arrhythmia Detection

Ke Xu, Shunan Guo, Nan Cao, David Gotz, Aiwen Xu, Huamin Qu, Zhenjie Yao, Yixin Chen,
ACM CHI 2018

Links: [\[url\]](#) [\[pdf\]](#)



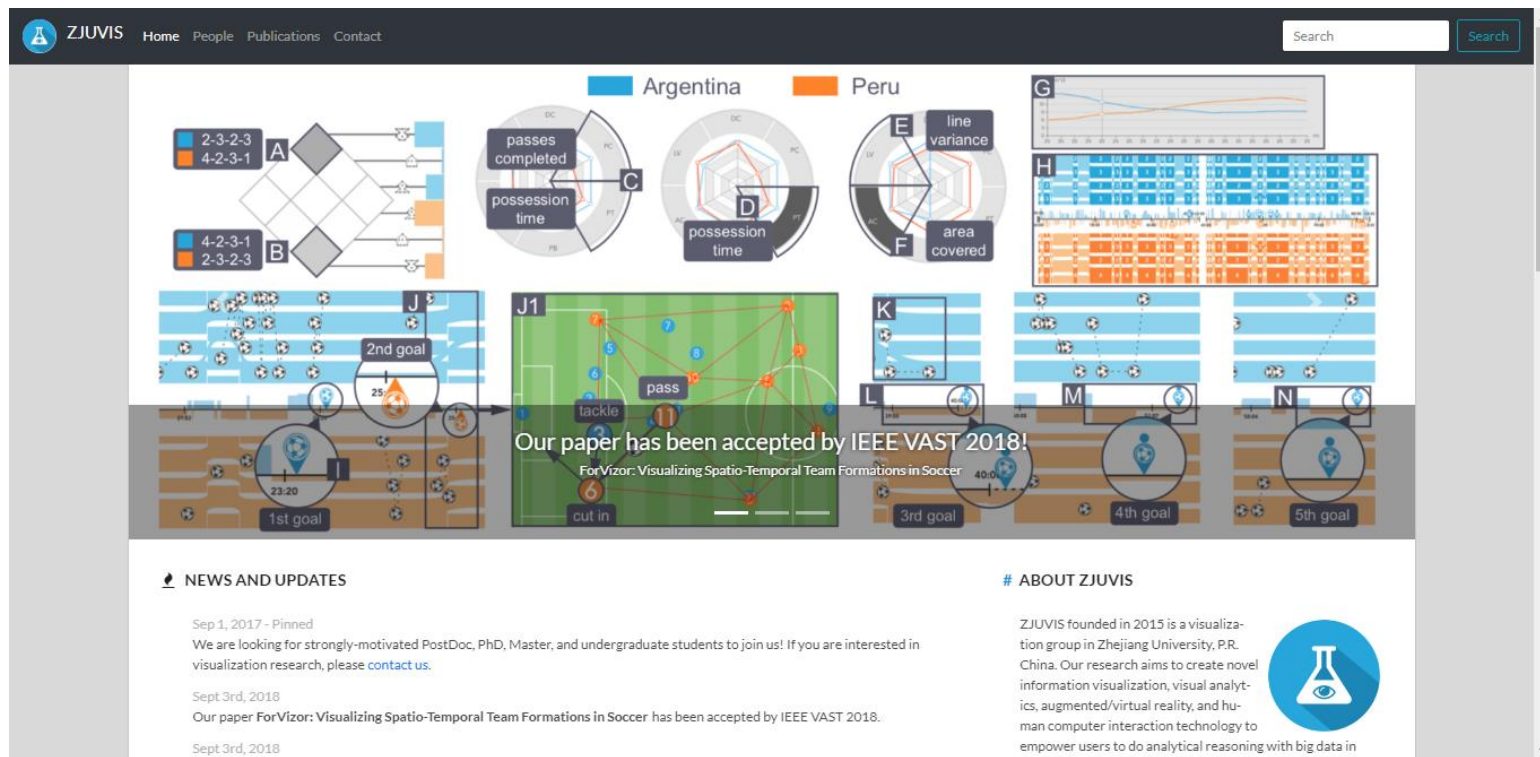
InfoNice: Easy Creation of Information Graphics

Yun Wang, Haidong Zhang, He Huang, Xi Chen, Qiufeng Yin, Zhitao Hou, Dongmei Zhang, Qiong Luo,
Huamin Qu,

ACM CHI 2018

Links: [\[url\]](#) [\[pdf\]](#)

可视化实验室：浙江大学



可视化实验室：北京大学

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PKU Visualization Blog

北京大学可视化与可视分析博客

Charticulator: 交互式构建定制的图表布局 (Charticulator: Interactive Construction of Bespoke Chart Layouts)

作者: Jiang, Ruike Jiang 日期: 2018年10月14日 没有评论



定制的图表更具表现力，可以根据想要传递的数据洞察进行细节的设计，从而让目标用户更容易注意、理解和记忆这些图表。用户想要创建这些图表，可以使用绘图的工具，但是这些工具需要手动设置数据和属性的映射，比较低效；可以用可视化的库编写代码实现，但是用户需要有一定的编程技能；也可以使用一些交互式的可视化构建工具，但是这些一般需要用户从一些模版中进行选择，因而表现能力不足，并且提供的布局方式有限或者提供的布局构建的交互不够方便。针对已有工作存在的问题，[1]的作者们提出了Charticulator，可以灵活创建可视化布局。

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- 北京大学可视化与可视分析研究小组主页 - PKU Vis Home Page
- 北京大学可视化研究维基 - PKU Vis WIKI

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可视化实验室：同济大学

智能大数据可视化实验室

Intelligent Big Data Visualization Lab (iDV^x)

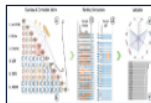
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2018



Shunan Guo, Zhuochen Jin, David Gotz, Fan Du, Hongyuan Zha, Nan Cao
Visual Progression Analysis of Event Sequence Data
IEEE TVCG (IEEE VAST 2018)

[paper](#) | [video](#)



Ke Xu, Meng Xia, Xing Mu, Yun Wang, Nan Cao
EnsembleLens: Ensemble-based Visual Exploration of Anomaly Detection Algorithms with Multidimensional Data
IEEE TVCG (IEEE VAST 2018)

[paper](#) | [video](#)



Wenchao Wu, Yixian Zheng, Kaiyuan Chen, Xiangyu Wang, Nan Cao
A Visual Analytics Approach for Equipment Condition Monitoring in Smart Factories of Process Industry
IEEE PacificVis 2018

[paper](#)

可视化实验室：四川大学





谢谢

可视化工具及平台分享

梁 晶

jing.liang@scuvis.org

2018年10月17日