

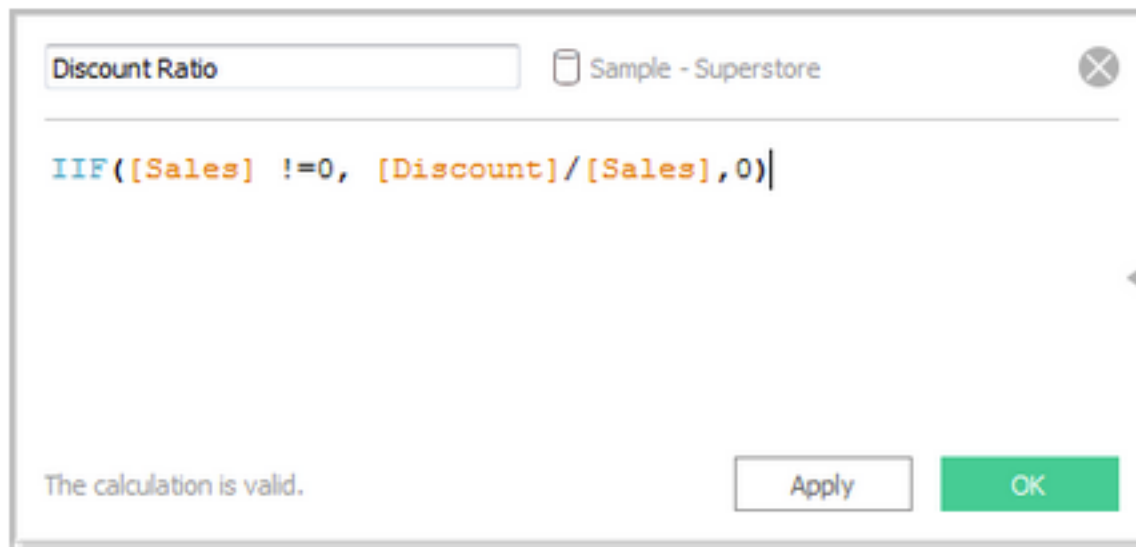
# Evolving Interactions

---

# Dynamic Query

Text-based dynamic query:

- Programmatic
- Not as flexible with matches



# AGE-ADJUSTED CERVIX UTERI CANCER RATE (WHITES ONLY)

University of Maryland, Human-Computer Interaction Lab

(Copyright 1992)

National Center For Health Statistics

Help

Reset

Quit

Year

50

55

70

US rate: 7.87

College %

10

10

28

28

PerCap Inc (\$)

7400

7400

14100

14100

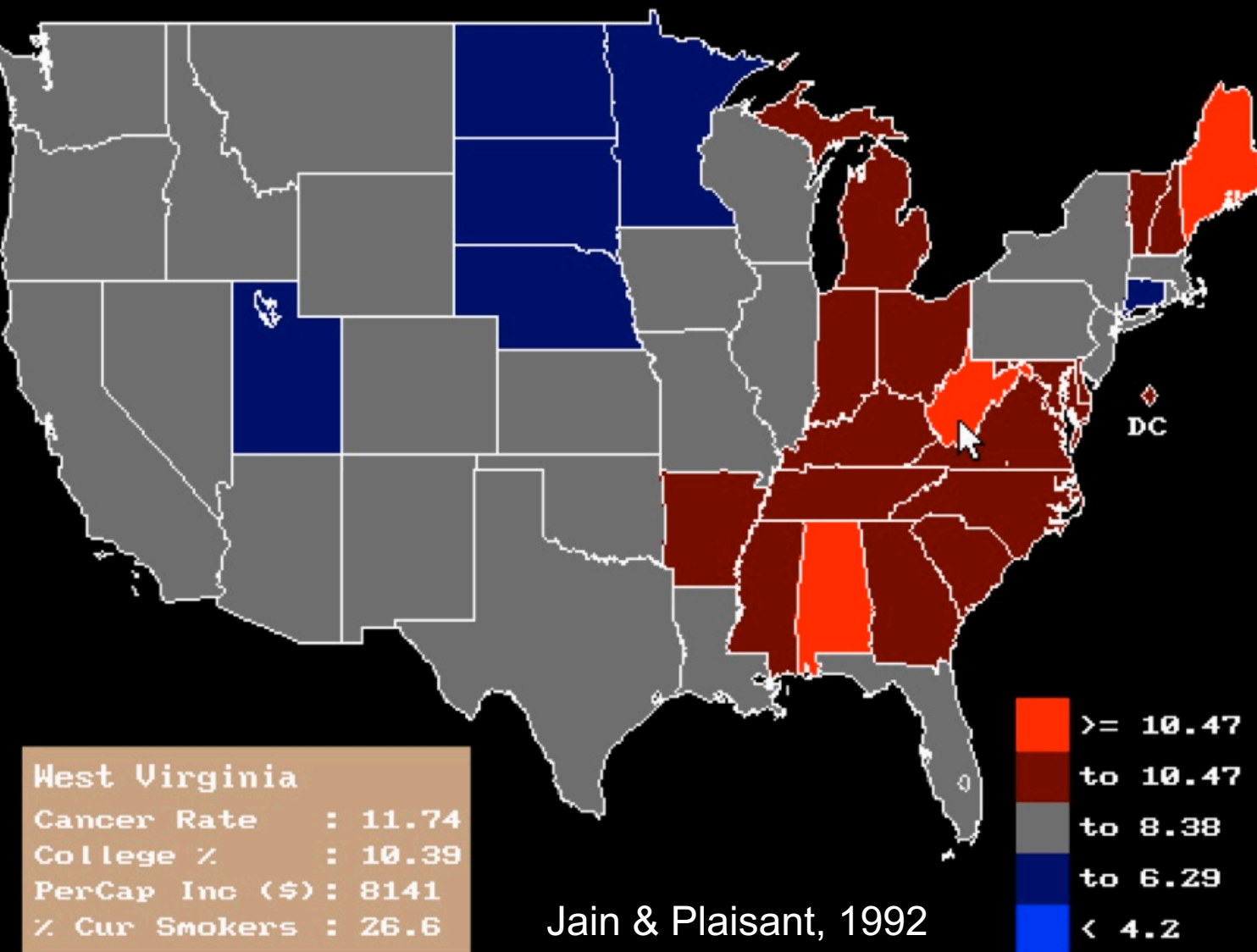
% Cur Smokers

16

16

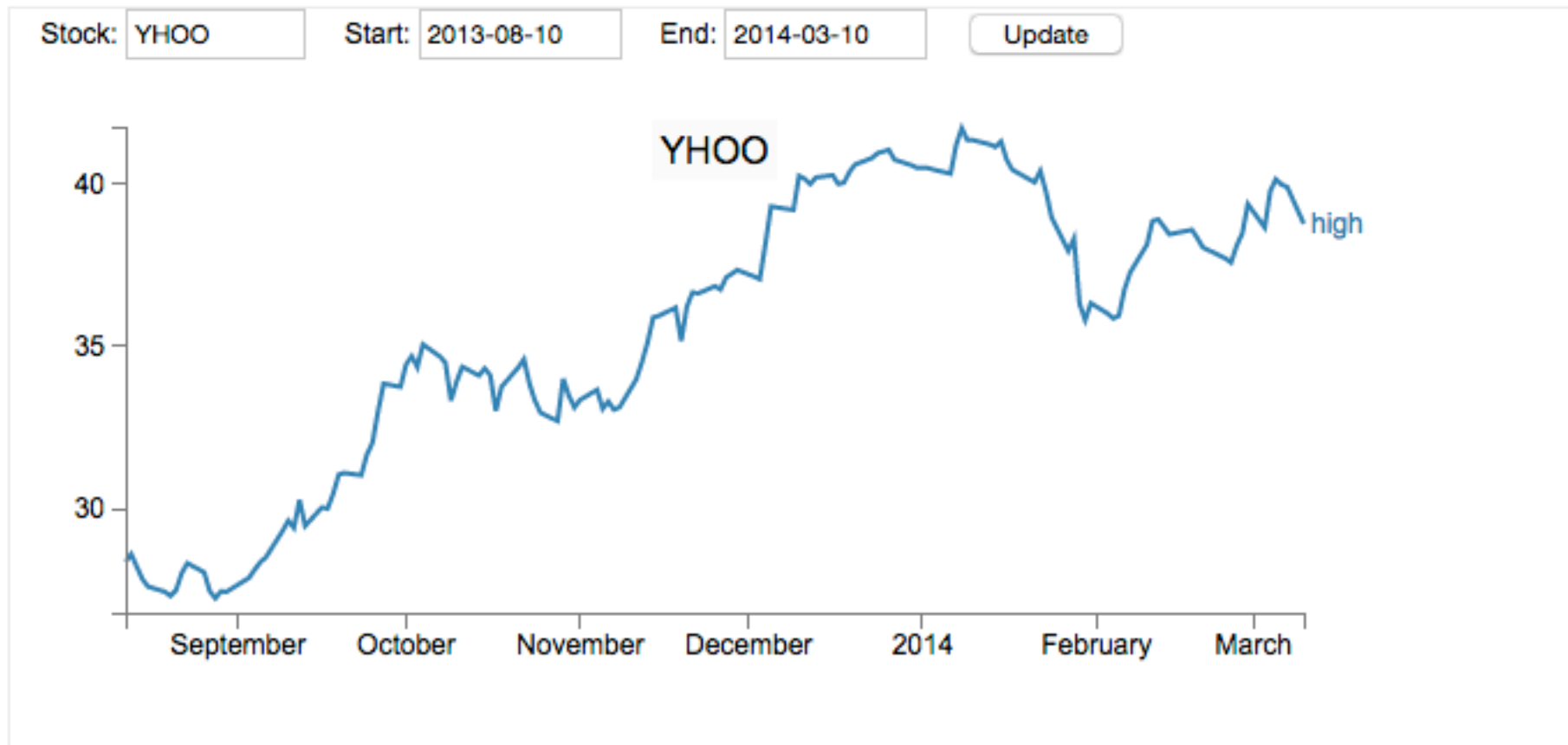
30

30



Jain & Plaisant, 1992

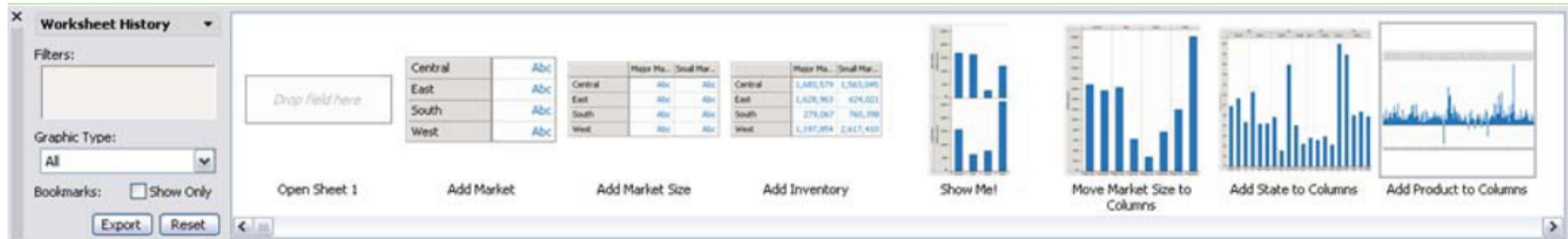
# D3 Dynamic Stock Data



<http://bl.ocks.org/d3noob/9576689>

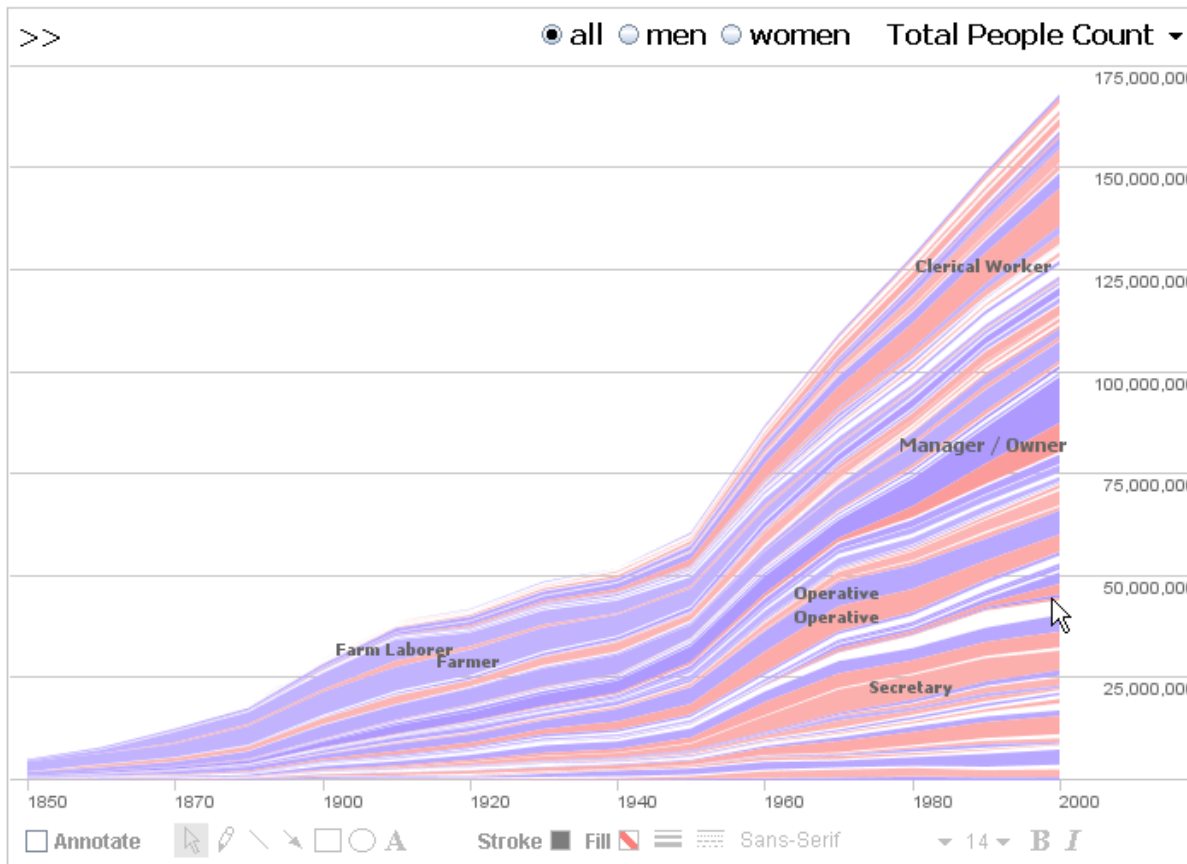
# Supporting iterative analysis and sharing

# Visual History



# Sharing

sense.us / jobs

hello, Michael [profile](#) [comments](#) [trails](#) [help](#) [logout](#)Reported Occupations of U.S. Labor Force, 1850-2000 (source: <http://ipums.org>)comments (7) [New Comment](#) | [View All \(139\)](#)▼ **Welcome!** (1)

Add comments and annotations (using the drawing tools below the visualization) to share your thoughts, insights, and questions as you explore the data. You can use the **bold** (<b>) and *italic* (<i>) tags in your comments, and any URLs will be automatically linked for you. Additionally, you can drag bookmarks to the comment text box to automatically insert links to other views.

by Michael Rogers on Thu Jul 20, 2006 1:51 PM

reply

▼ **War == employment!** (4)

Big increase in growth

by Jack Whitman on Fri Jul 21, 2006 12:15 PM

the population is increasing, but some jobs become rare

by Li Zhang on Wed Aug 2, 2006 8:33 AM

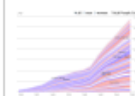
Oh yeah. this is the baby-boom... whoops

by Jack Whitman on Wed Aug 16, 2006 10:39 AM

In addition to the war and population growth, the entrance of women into the labor force (*and being counted!*) is probably a big contributor.

by Michael Rogers on Wed Aug 16, 2006 10:45 AM

reply

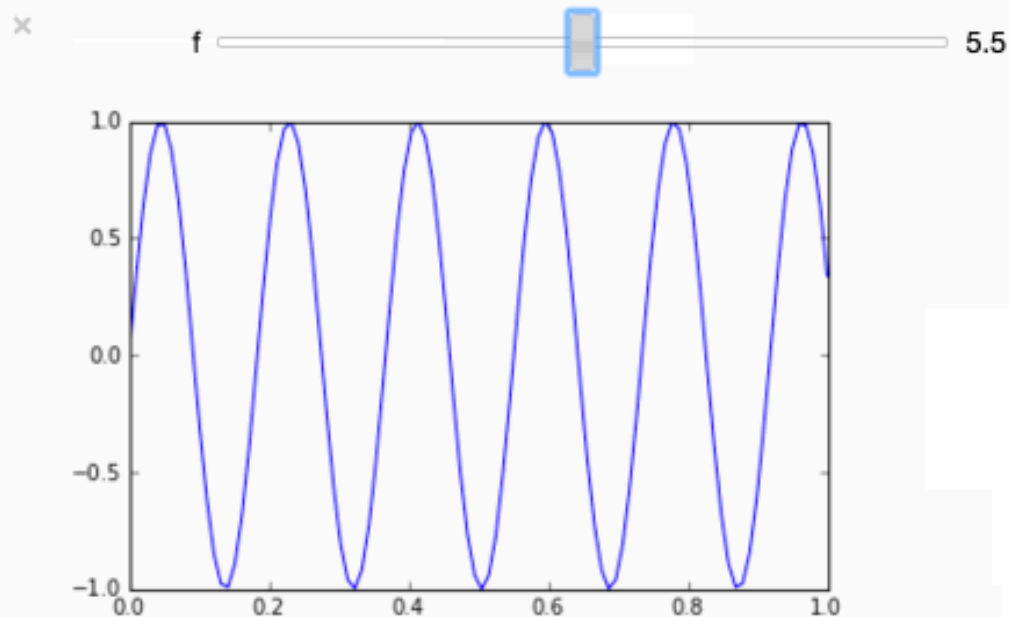
bookmarks (1) [Add View](#) | [Save](#) | [Load](#) | [View All](#)

Add a Bookmark

[visual communication lab](#) [privacy](#) [feedback](#) [help](#)See something interesting? [Add a comment, it's easy!](#)

# Interaction in Jupyter

```
In [22]: from IPython.html.widgets import import *  
t = arange(0.0, 1.0, 0.01)  
  
def pltsin(f):  
    plt.plot(x, sin(2*pi*t*f))  
    plt.show()  
  
interact(pltsin, f=(1,10,0.1))
```



<https://blog.dominodatalab.com/interactive-dashboards-in-jupyter>



# Changing Expectations





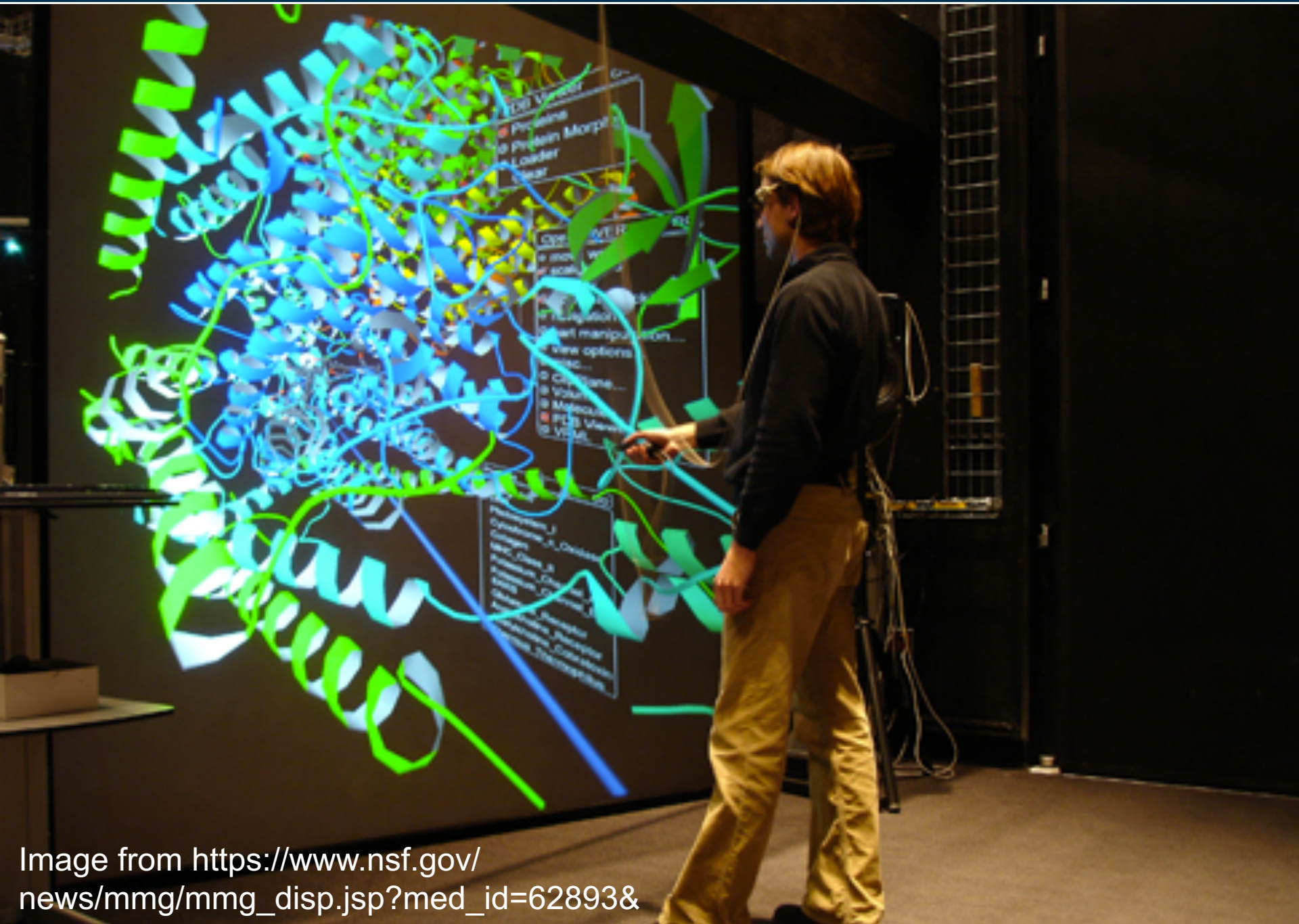


Image from [https://www.nsf.gov/news/mmg/mmg\\_disp.jsp?med\\_id=62893&](https://www.nsf.gov/news/mmg/mmg_disp.jsp?med_id=62893&)

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INFORMATION