

A SENSE FOR THE ABSTRACT

I am a design consultant who makes abstract objects come to life. I specialize in data visualization.

My visualizations invade people's minds and interrupt their discussions. Joyful visual experiences and productive

decision-making make ideas concrete in their memories.

I also work with tangible and embodied interfaces. *MiLa*, originally an art project to create music using hand signs, can also help novice students learn music notation.

<u>1</u> <u>2</u> <u>3</u>

DASHBOARDS

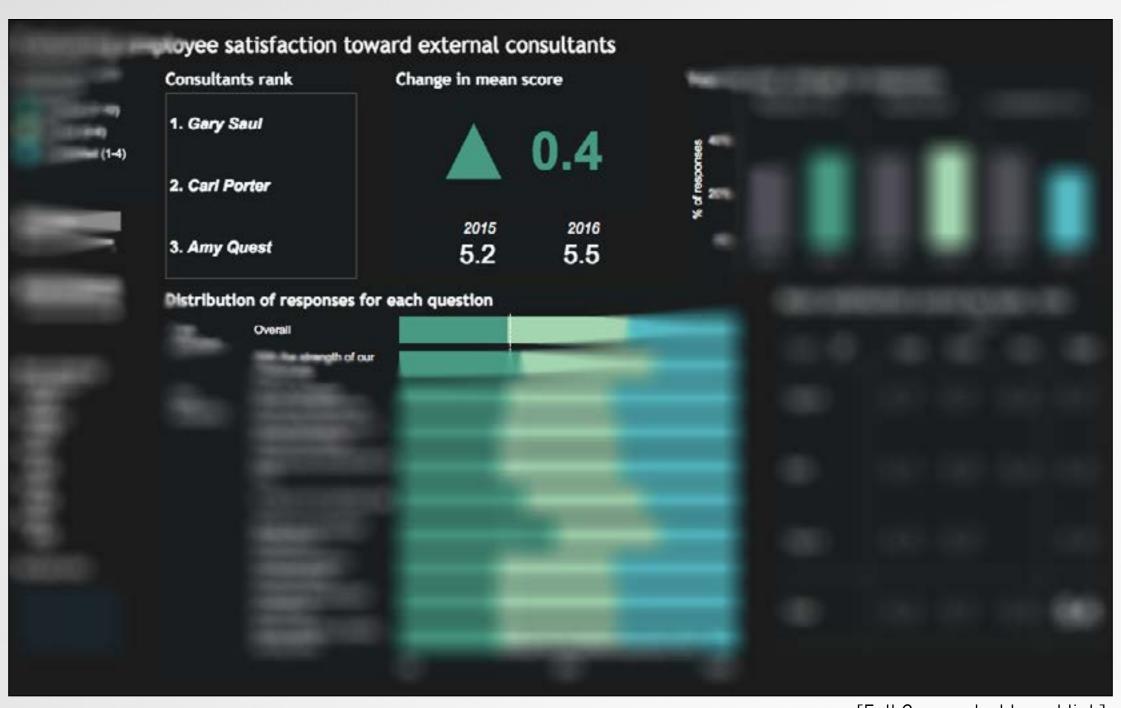


Data Comics

MiLa

<u>2</u> <u>3</u>

Get an overview of key metrics



[Full 2-page dashboard link]

Data Comics

MiLa

1 <u>2</u> <u>3</u>

Allow users to choose granularity



[Full 2-page dashboard link]

1 <u>2</u> <u>3</u>



Summarize active filters for reference

[Full 2-page dashboard link]

1 <u>2</u> <u>3</u>



[Full 2-page dashboard link]

Leverage baselines for analysis

<u>2</u> <u>3</u>



Detailed tables come last

[Full 2-page dashboard link]

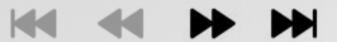
Data Comics

MiLa

1 2 3



[Full 2-page dashboard link]



Data Comics

MiLa

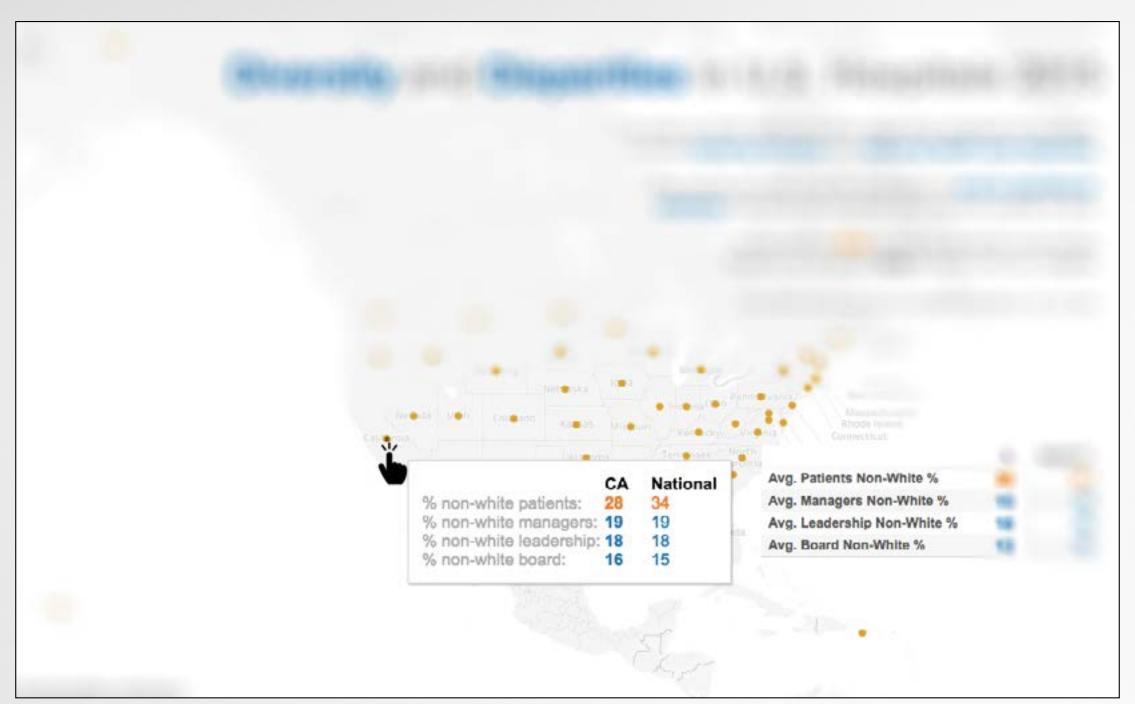
<u>1</u> 2 <u>3</u>

Use maps and diagrams as main menus



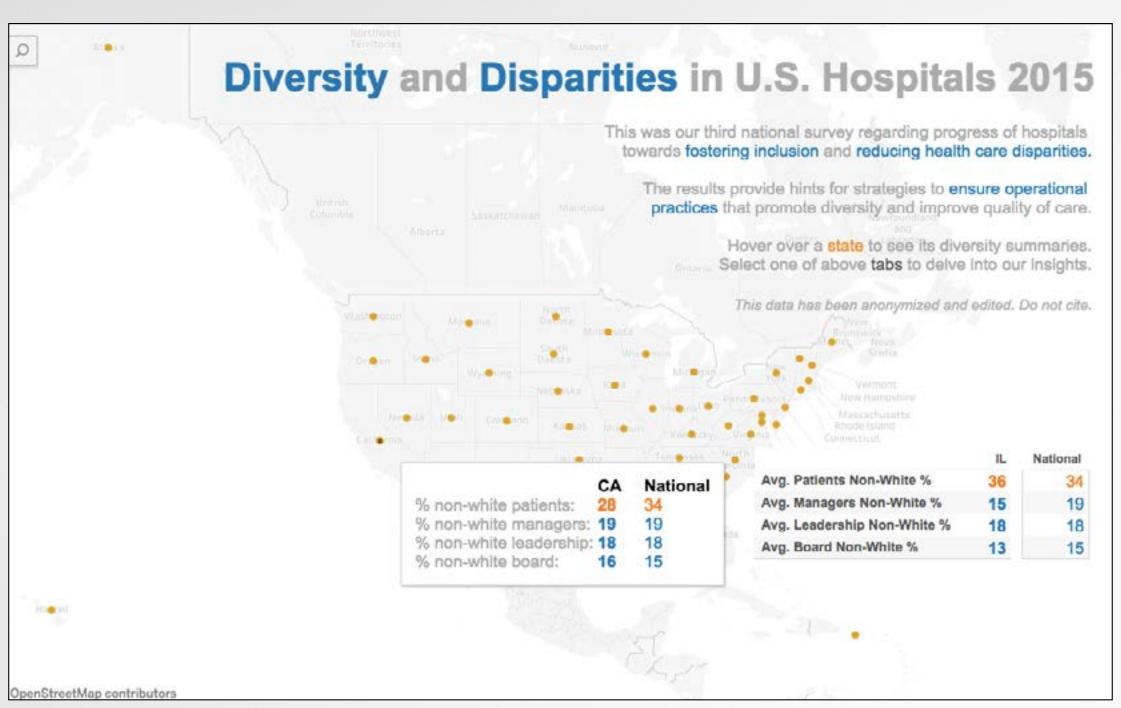
[Full 6-page dashboard link]

<u>1</u> 2 <u>3</u>



[Full 6-page dashboard link]

Exploit mouseover menus for analysis



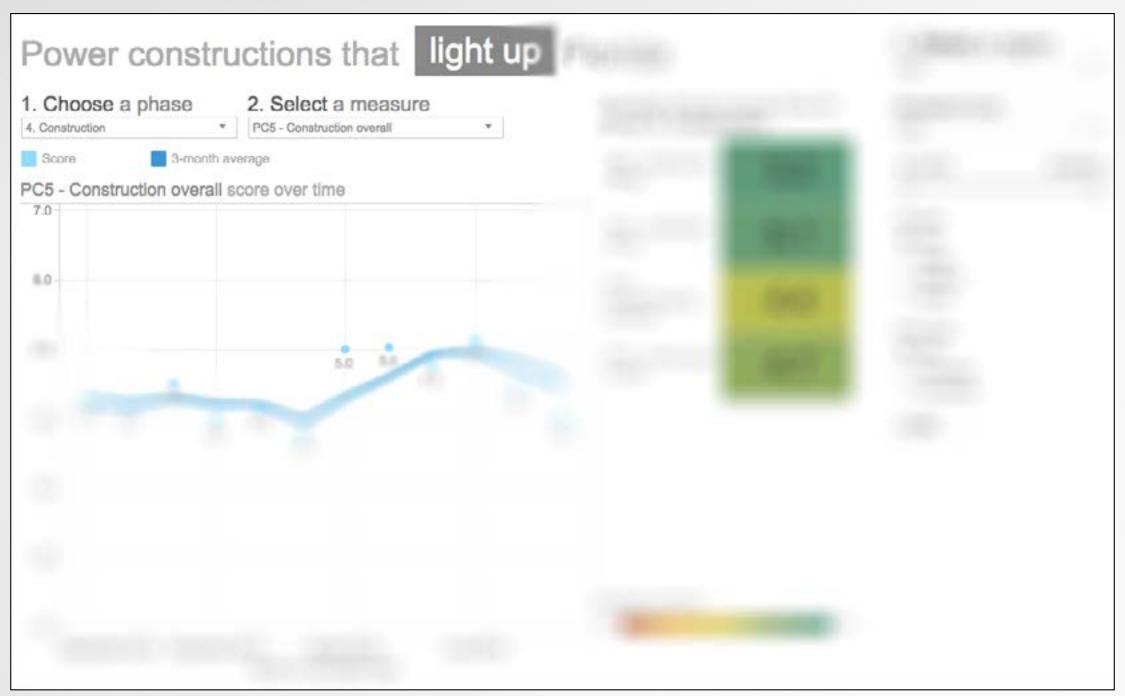
[Full 6-page dashboard link]

Data Comics

MiLa

2 3

Guide users through available filters



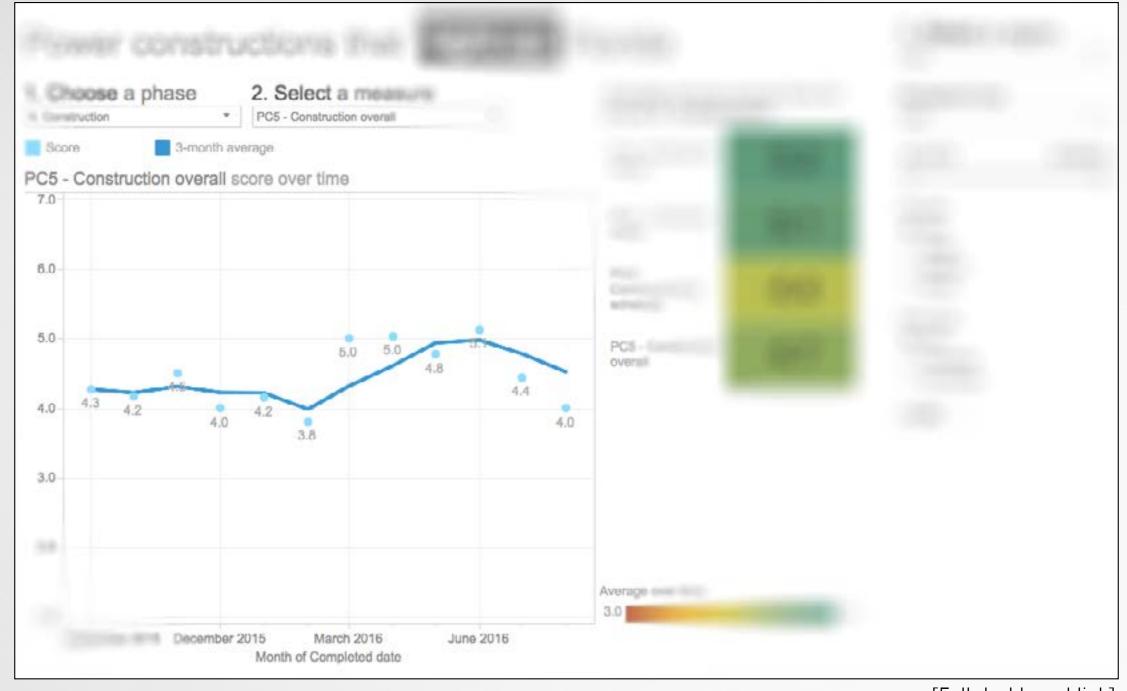
[Full 3-page dashboard link]



Data Comics

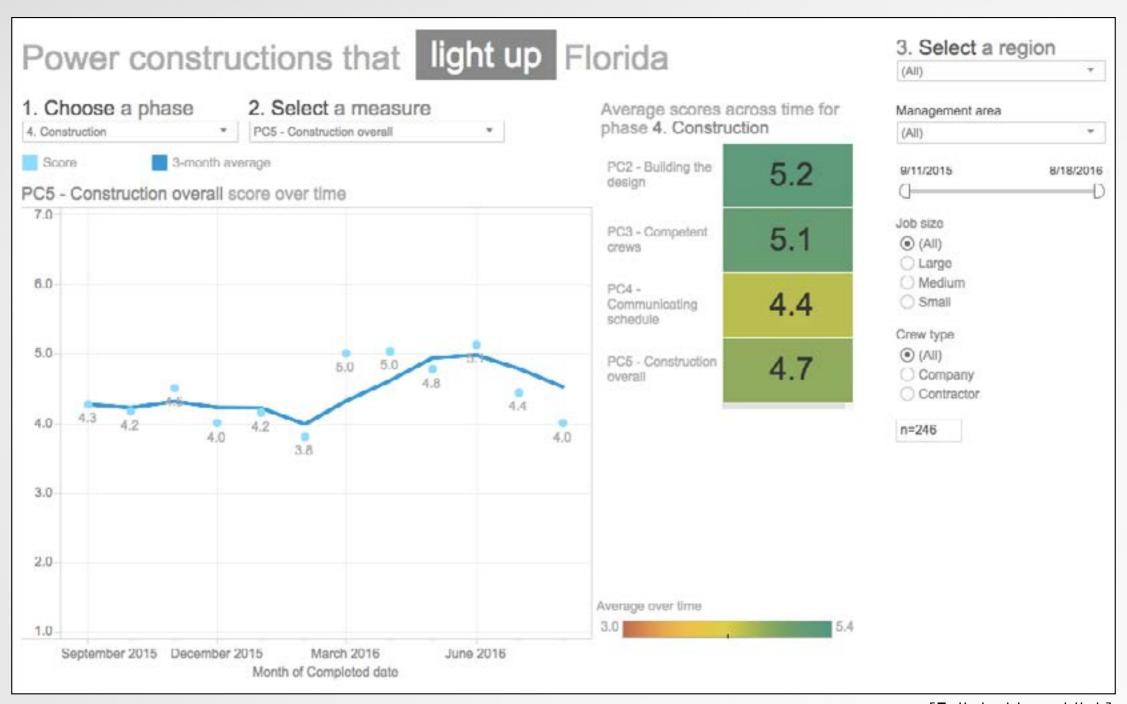
MiLa

<u>2</u> 3



Create concise yet detailed graphs

[Full dashboard link]

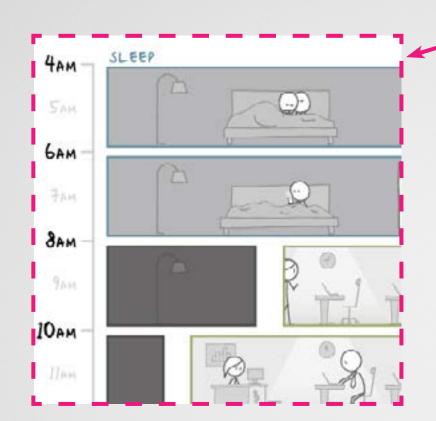


[Full dashboard link]

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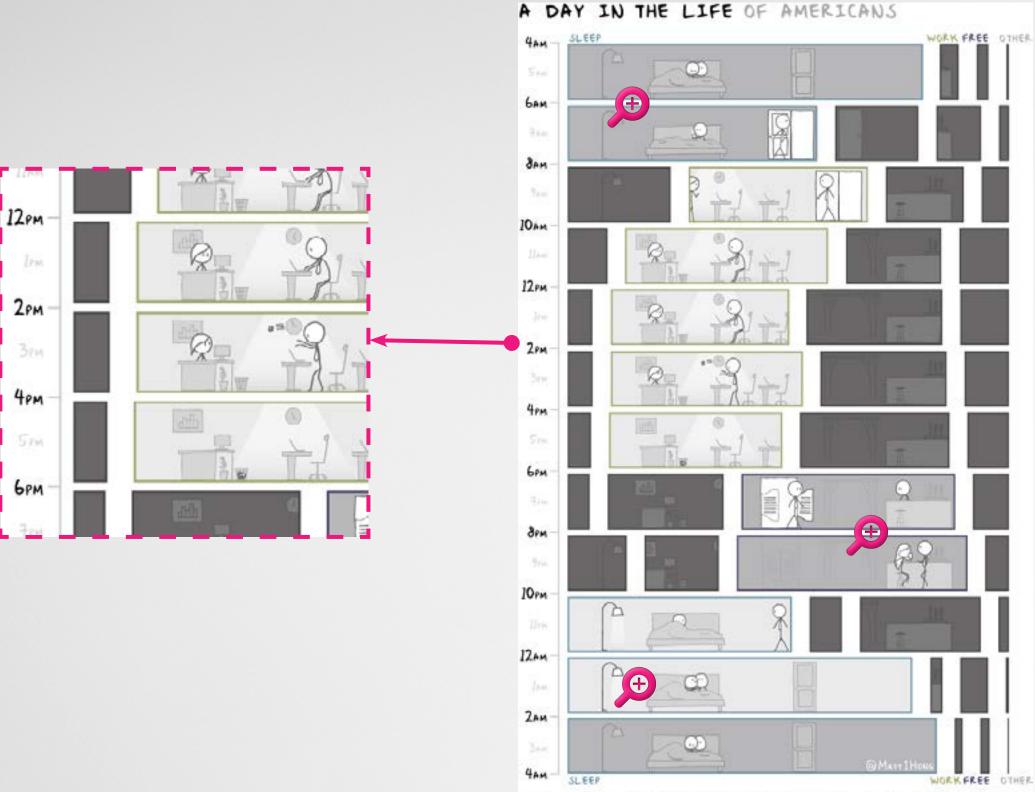
DATA COMICS



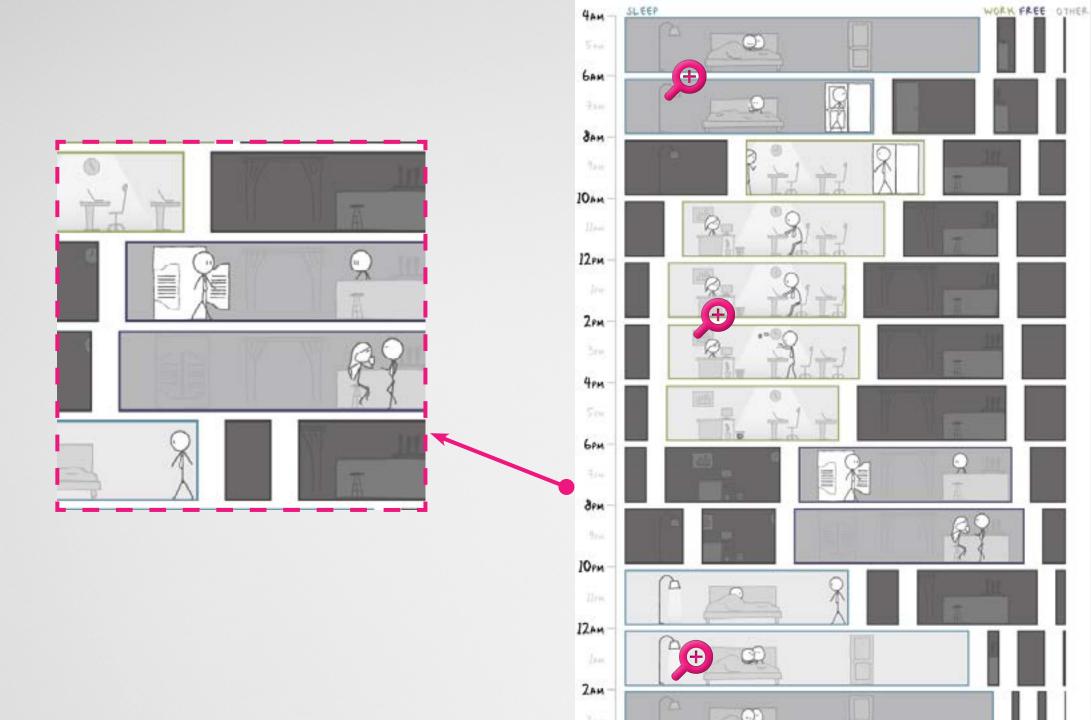




Data: American Time Use Survey. Bureau of Labor Statistics (2011-15). https://www.bc.s.gov/tus/tabces.htm [Original post link] Comic strips offer a unique avenue for engagement with quantitative information.



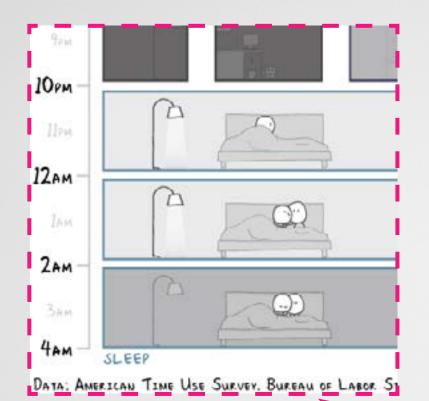
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A DAY IN THE LIFE OF AMERICANS

Comic strips offer a unique avenue for engagement with quantitative information.





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Dashboards

Data Comics

MiLa

THE LONDON PLANET

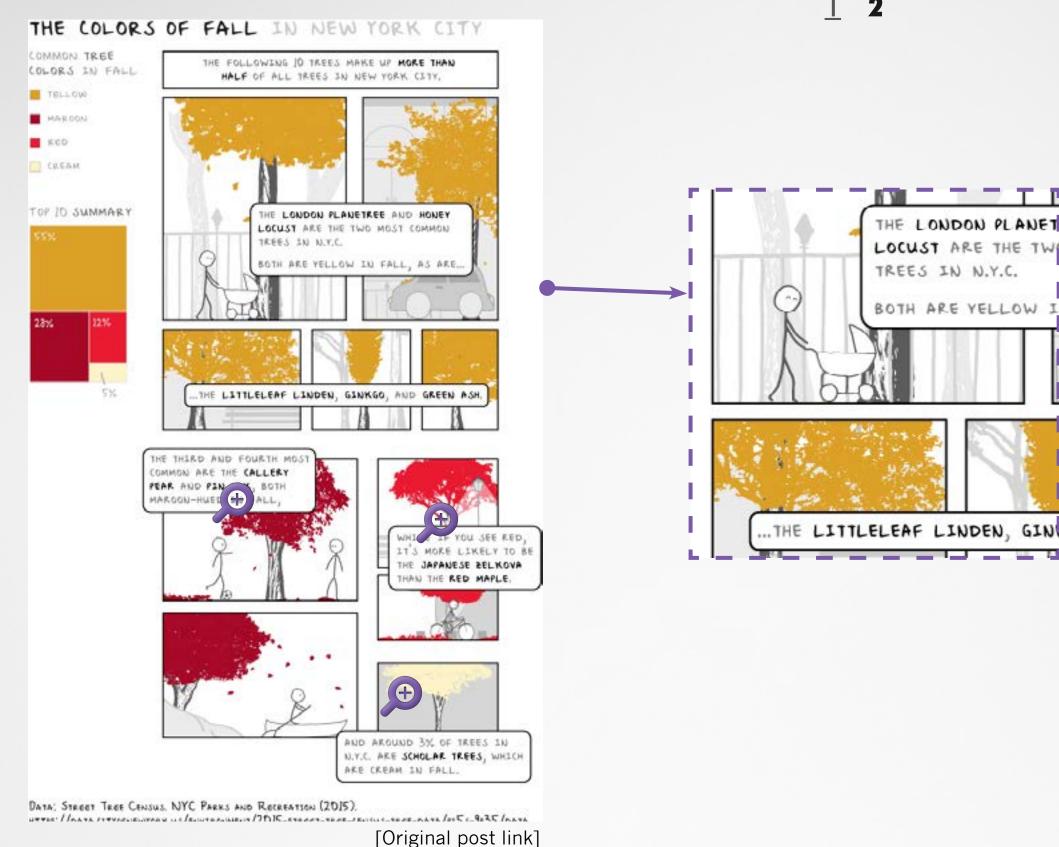
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BOTH ARE YELLOW I

TREES IN N.Y.C.

Data comics might challenge the conventions of data visualization.

Speech bubbles (in lieu of labels) can be used to great effect in data comics by augmenting the capacities of visual storytelling.



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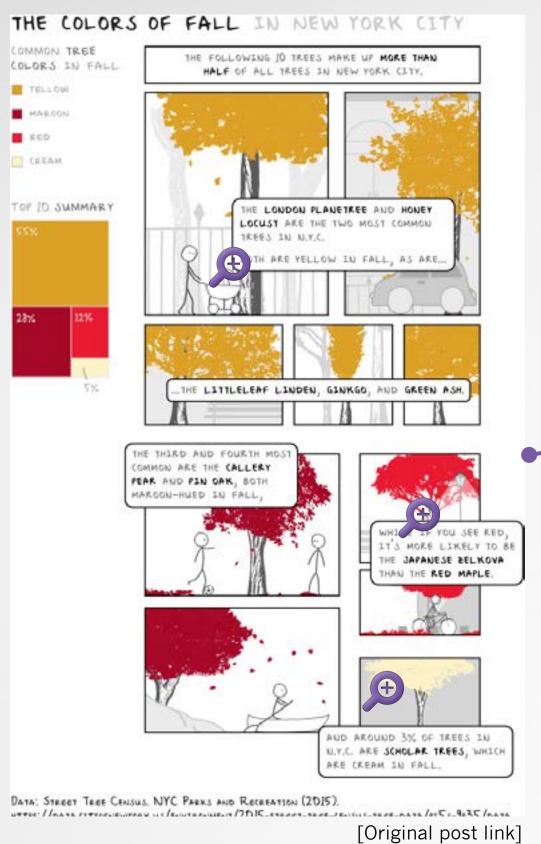
Dashboards

Data Comics

MiLa

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THE THIRD AND FOURTH MOST

COMMON ARE THE CALLERY

PEAR AND PIN OAK, BOTH

MAROON-HUED IN FALL,

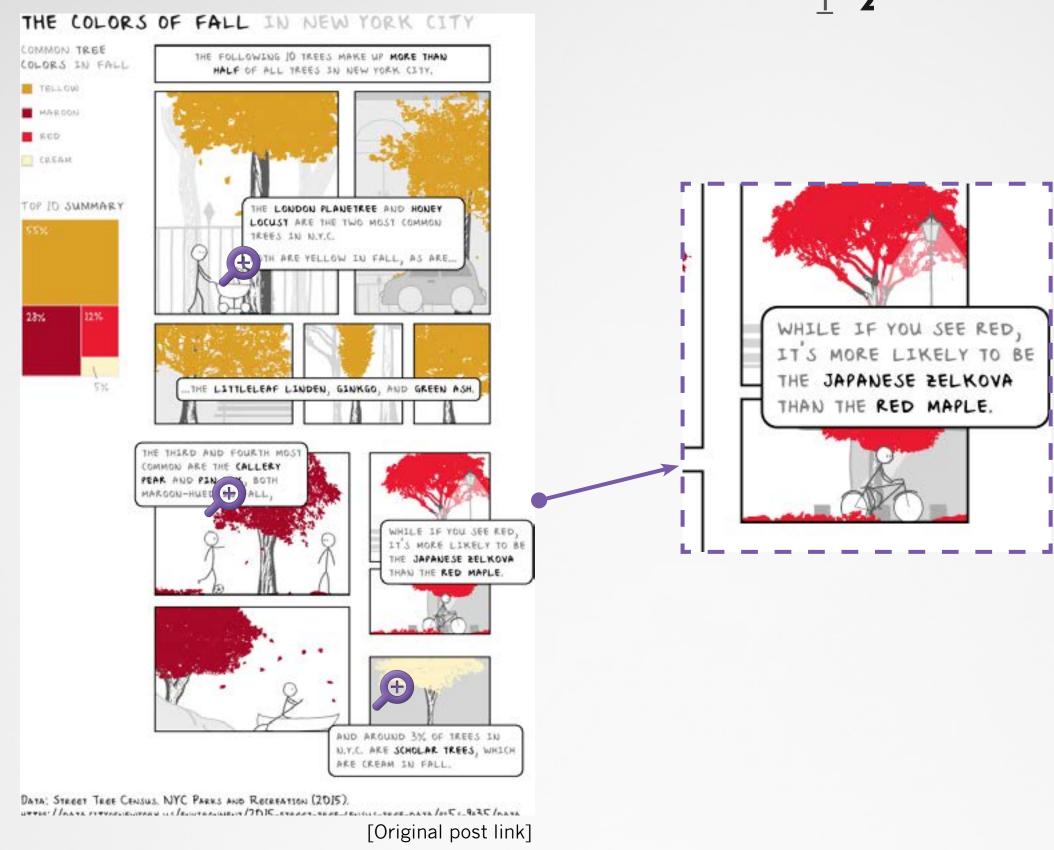
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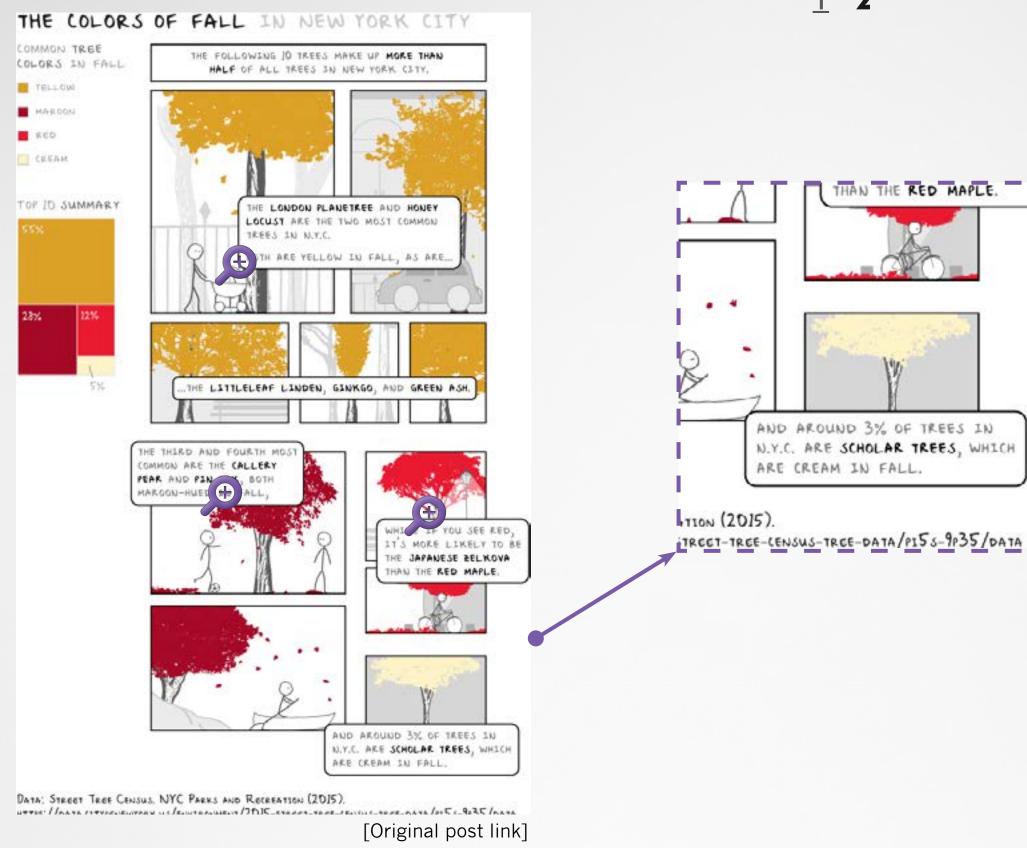
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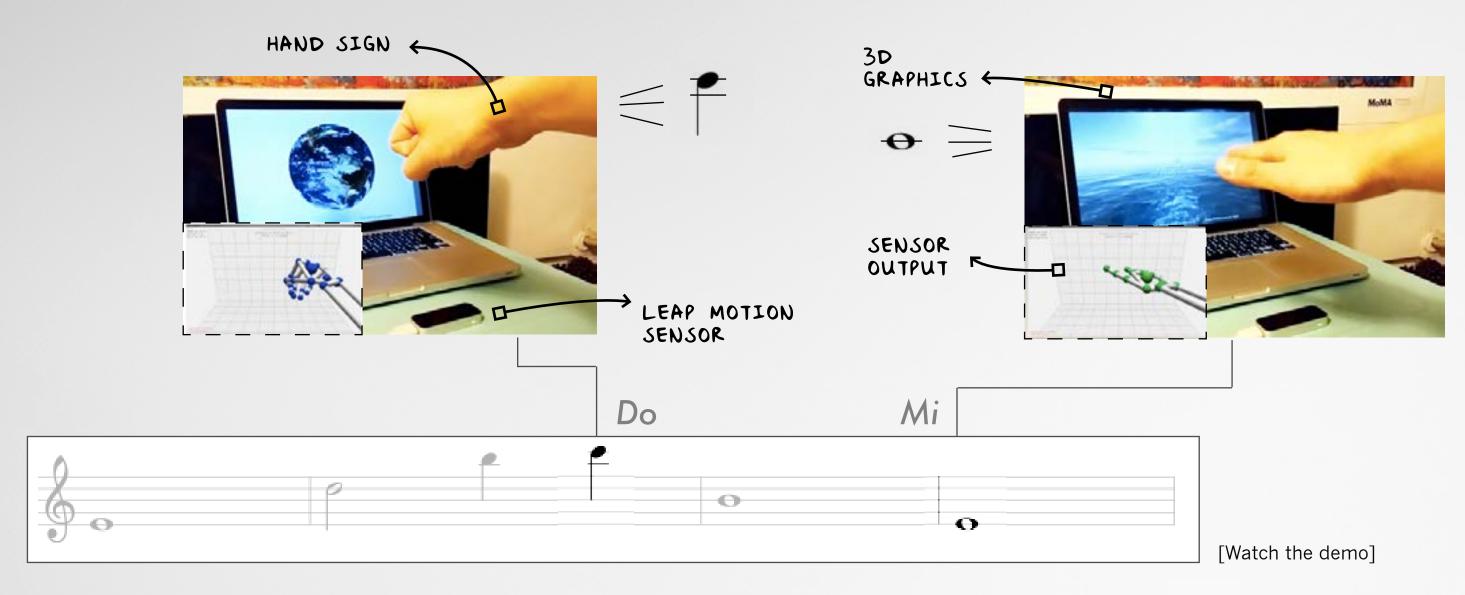
MiLa

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MiLa is a musical instrument controlled with hand signs and augmented with 3D graphics. Originally a work of visual and sound art meant to create sensations through embodied metaphors, it was later adapted as a tool for music literacy.

This interface was first presented as a short paper at CHI 2016.

The Curwen hand signs are a music notation system used by educators to dictate songs in class.

Created in the 19th century, the signs make sheet music come alive by evoking each tone's mental effect (*Do* [above left] is signalled with a fist, and its mental effect is "strong or firm").



Mila

MiLa: an Audiovisual Instrument for Learning the Curwen Hand Signs

Matt H. Y. Hong, William S. Hicks, Michael S. Horn Northwestern University

Twitter: @var_matt hong@u.northwestern.edu

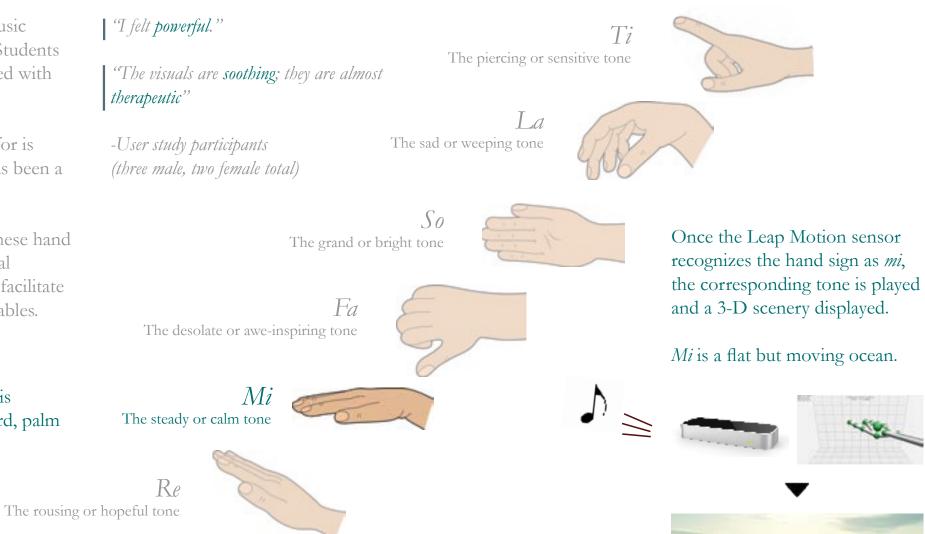
The Curwen hand signs are used in music classrooms for sight-singing training. Students would follow along to melodies dictated with the hand signs.

Learning what pitch each sign stands for is neither easy nor fun, as until now it has been a rote learning process.

MiLa is an instrument controlled by these hand signs. Getting active auditory and visual feedback for making the postures will facilitate the link between the signs and the syllables.

Example:

Mi is the "steady and calm" tone, and is represented by a hand pointing outward, palm downward.



The strong or firm tone





Poster presented at CHI 2016.