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# The Emerging Genre of Data Comics

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Editors: Bruce Campbell and Francesca Samsel

# The Emerging Genre of Data Comics

### Benjamin Bach

Harvard University

### Nathalie Henry Riche

Microsoft Research

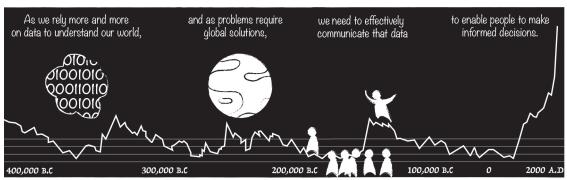
### Sheelagh Carpendale

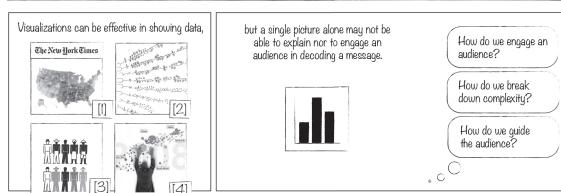
**University of Calgary** 

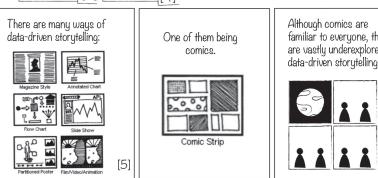
### **Hanspeter Pfister**

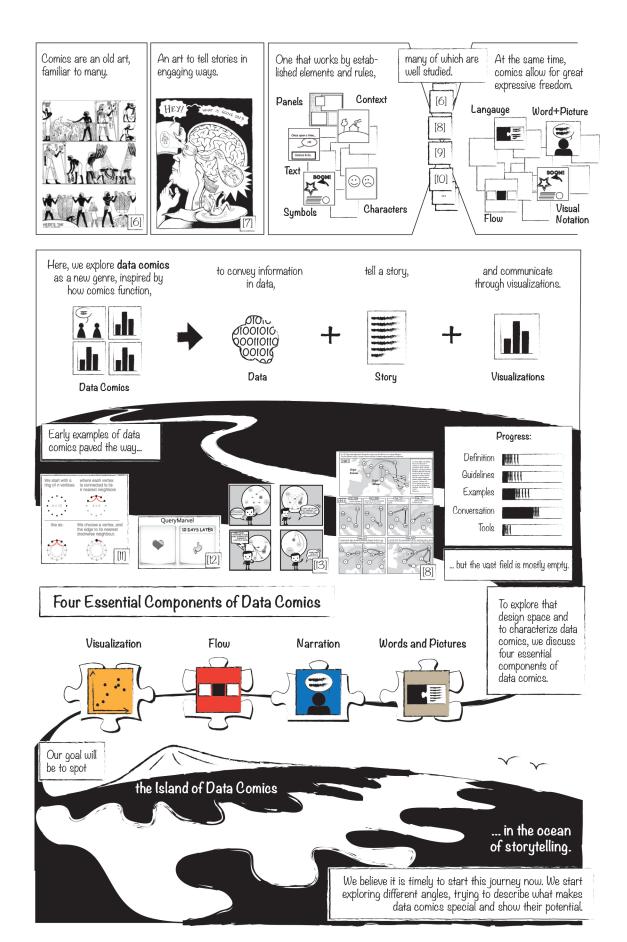
Harvard University

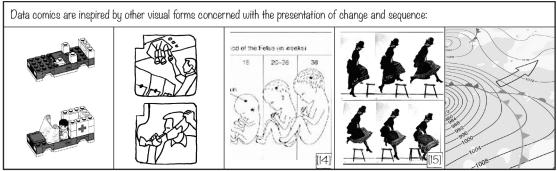
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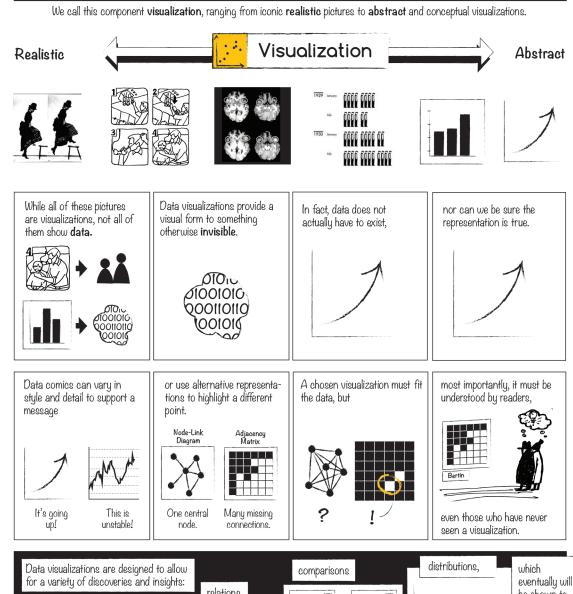


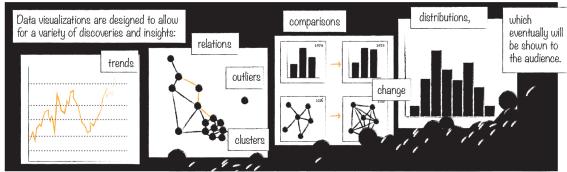


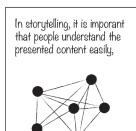




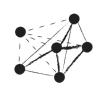




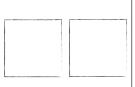




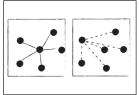




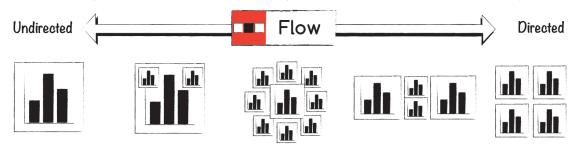
Yet, comics offer a fascinating and simple way:





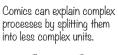


We call this component flow, ranging from an undirected nonexplicit flow to a directed flow indicated by the order of the panels.

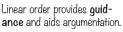


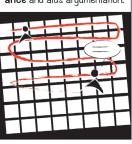






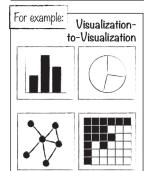


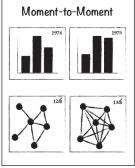


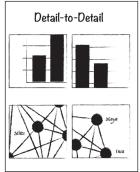


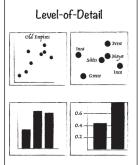


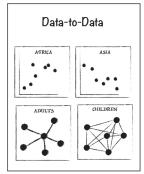


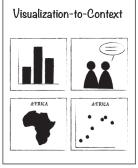


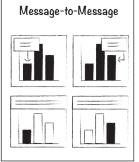


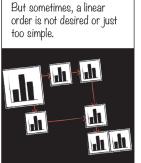


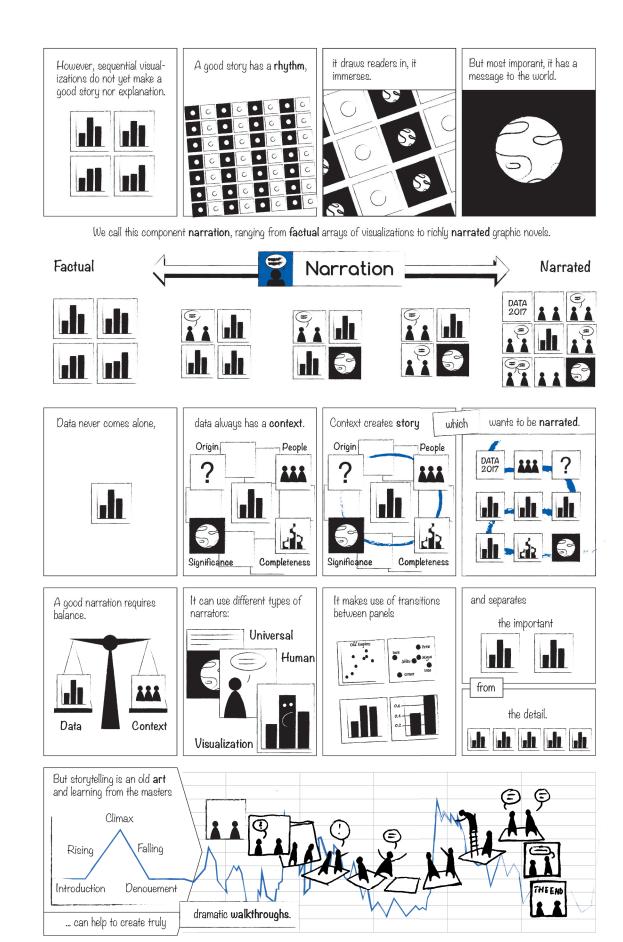


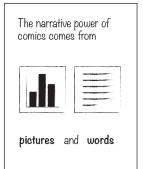


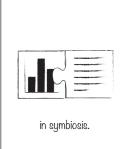


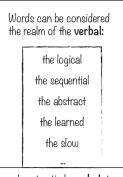


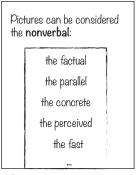












We call this component Word and Picture, ranging from almost entirely verbal, to nonverbal and visual.



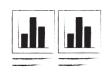


### Nonverbal





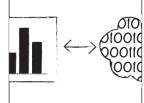




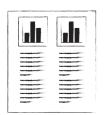




In data comics, pictures are mostly visualizations that show evidence in data.





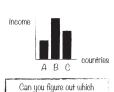


or can stand alone where no words are required to convey the intention.\*



\* Understanding can come from context, but more text may be better than less.

Words can help understand a picture, explaining and telling us what to look at.

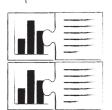


countries are shown?

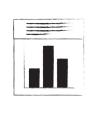
Data comics embrace both words and pictures to create a better understanding.



A combination can mean associating paragraphs with pictures



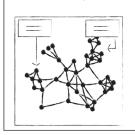
or integrating text into pictures,



or pictures into text.

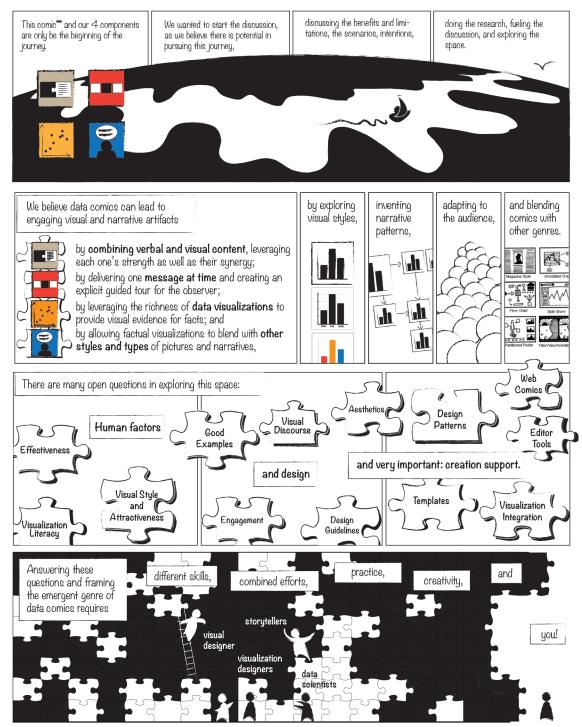
We can show an increase or any other pattern in temporal data ~~. Others showed soccer games ~~, or the amount of change in data ~~, changes in networks  $\equiv$ , and small maps  $\epsilon$ .

Eventually, text can become mere annotations,



leaving more space for the visualization

and for the observers to explore.



\*\* This is **not** a data comic, as it does not tell a story about data. It is an homage to Scott McCloud [6].

www.datacomics.net

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## **Editor's Note**

The authors behind this special Art on Graphics department article—Benjamin Bach, Nathalie Henry Riche, Sheelagh Carpendale, and Hanspeter Pfister—also contributed this issue's cover image. See the About the Cover profile article, "Stories in the Data," for more details about their motivation, creative process, and attempts to leverage the massive untapped potential for data-driven comics to explain multiple threads of simultaneous data.

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