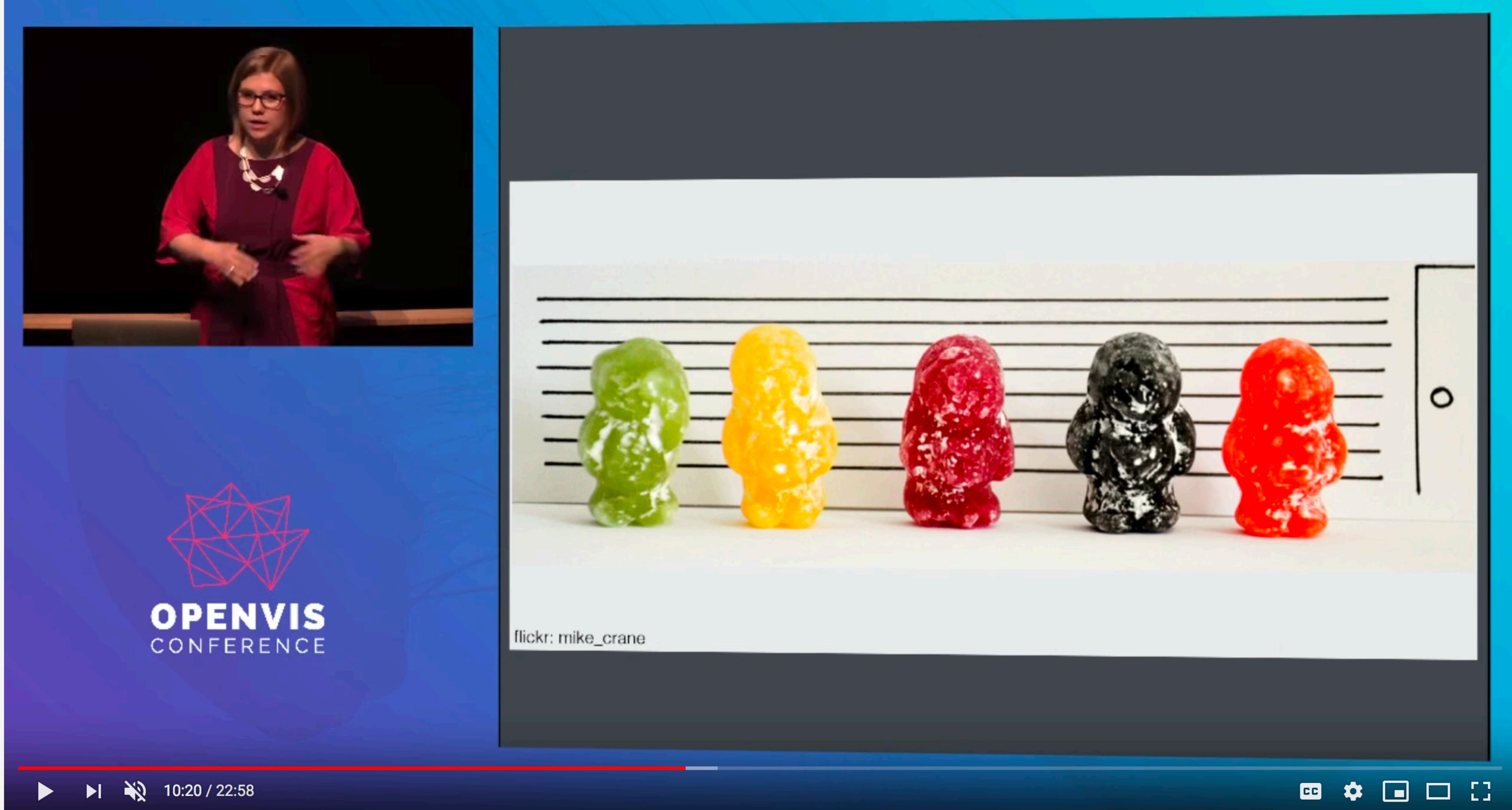


visualizing uncertainty



Do you know Nothing when you see it – Amelia McNamara

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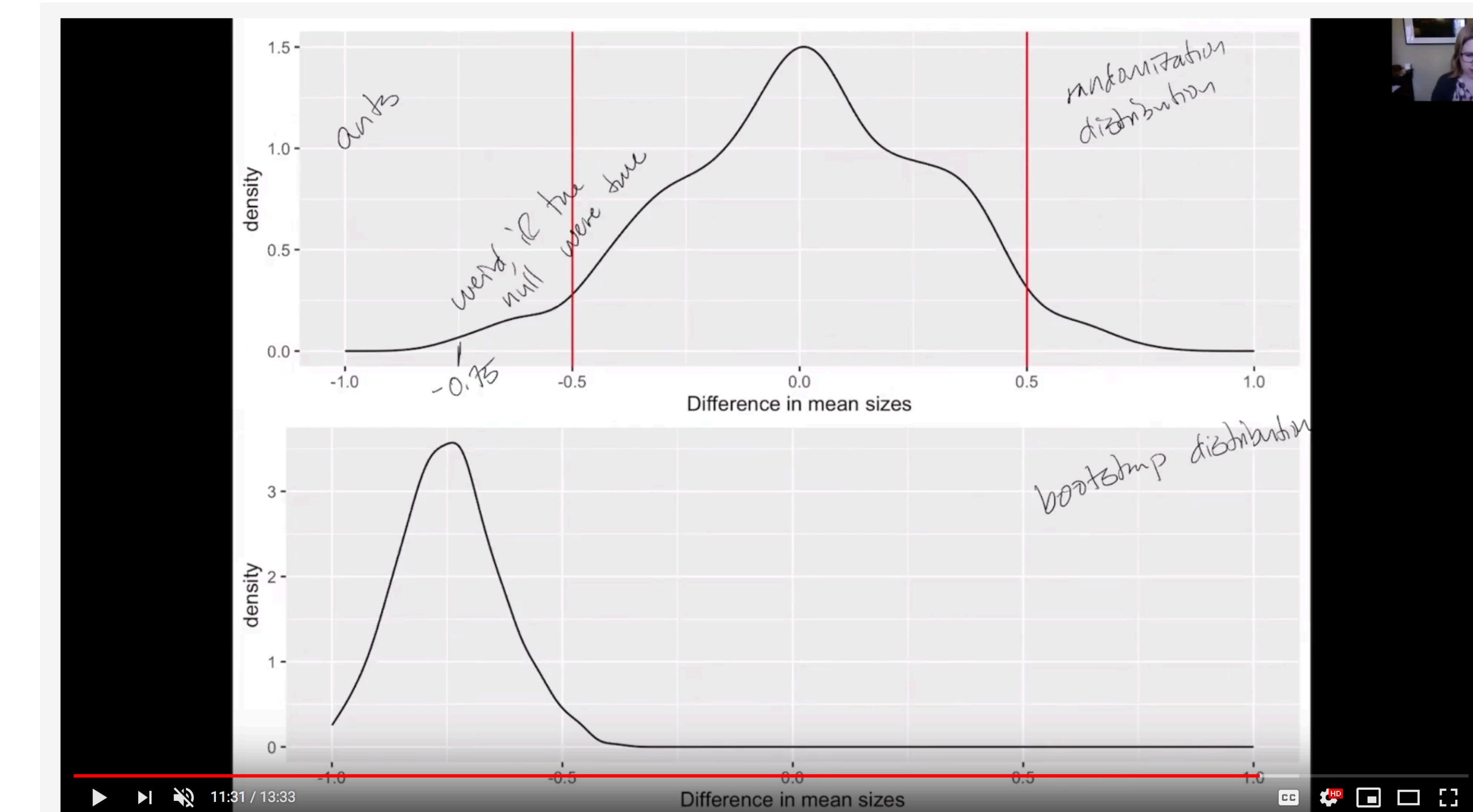
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Statistics seeks to answer general questions:

- Is this number different than zero?
- How sure am I about this number?



Making connections between hypothesis testing and confidence intervals (4.5, video 1 of 1)

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This video helps make the connection between hypothesis tests and confidence intervals. It accompanies section 4.5 of the Lock5 textbook.

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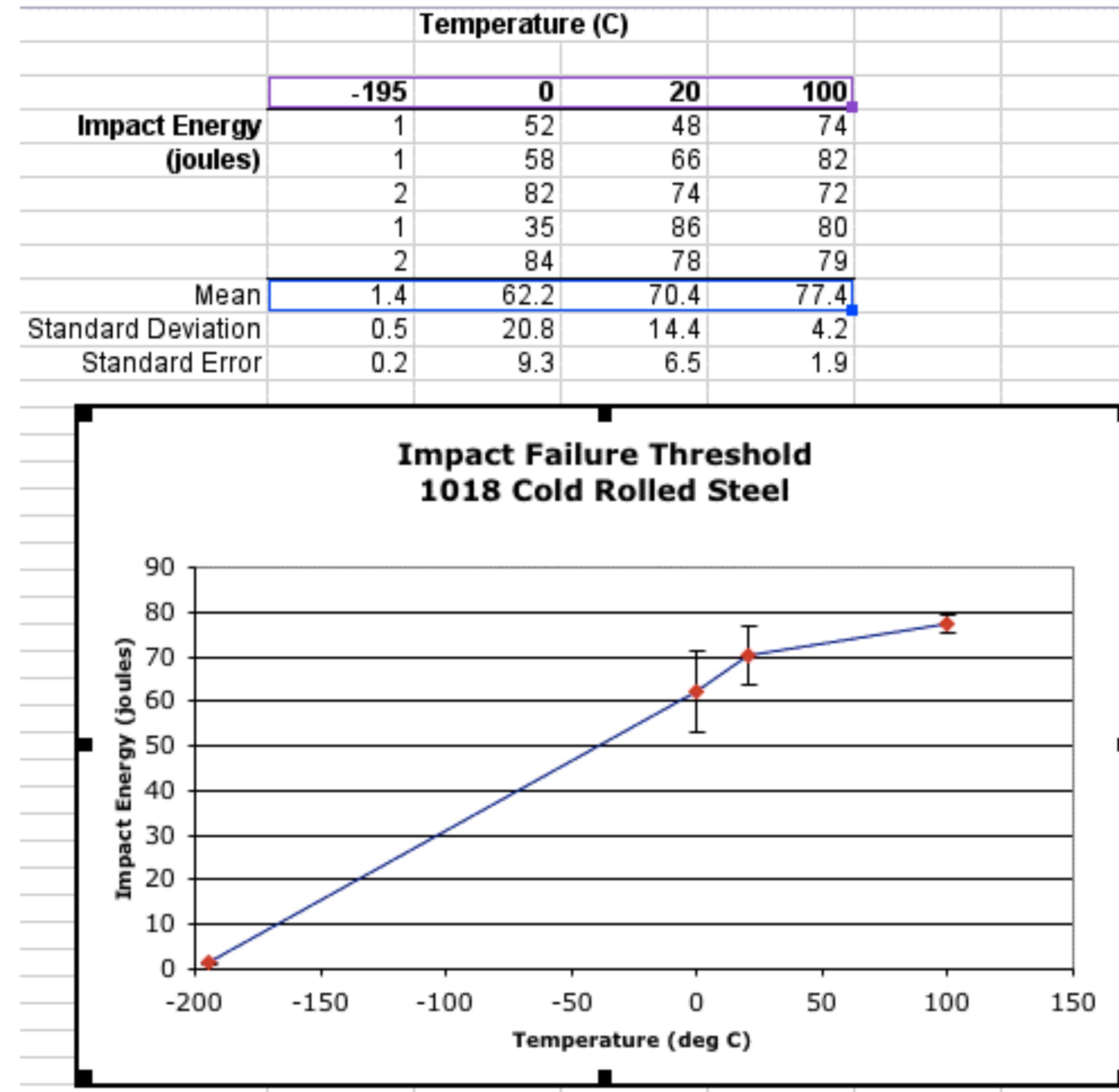
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Similar questions in visualization:

- Is this visualization different than “nothing”?
- How sure am I about the story I see?



A static solution: error bars



1.5.1.1 1D

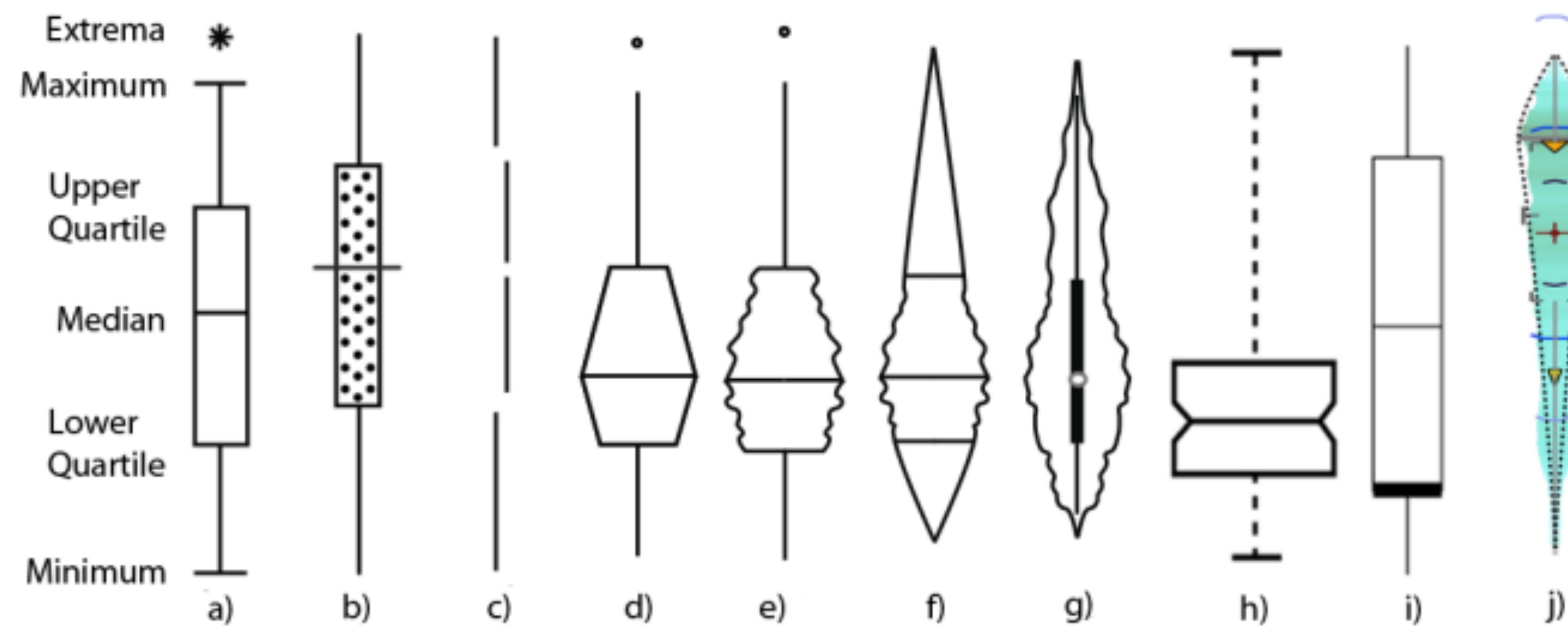
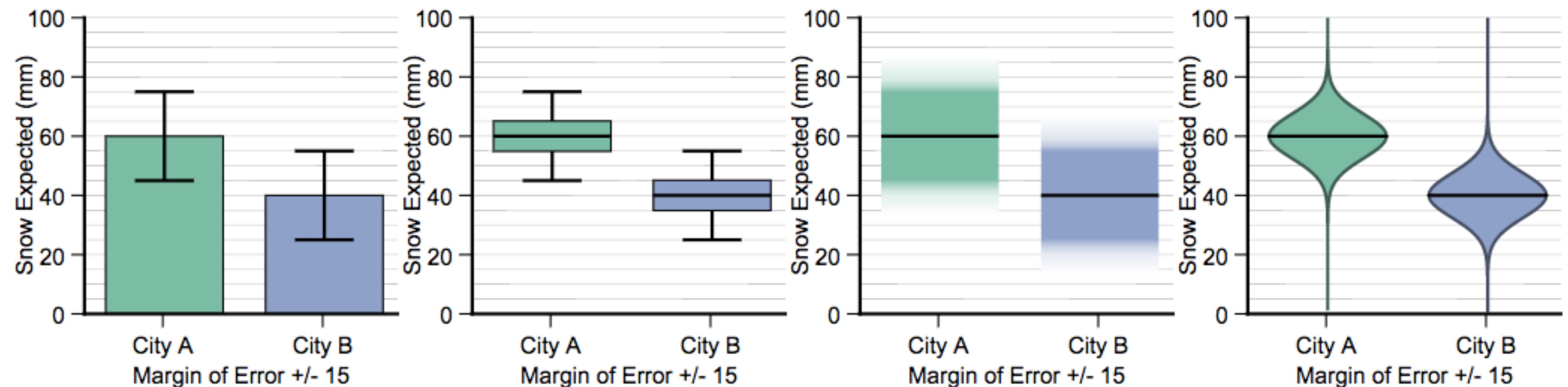


Fig. 1.2 Variations of the boxplot. a) The construction of the boxplot [106] b) Range plot [97] c) Innerquartile plot [105] d) Histplot [4] e) Vaseplot [4] f) Box-percentile plot [26] g) Violin plot [40] h) Variable width notched boxplot [68] i) Skewplot [16] j) Summary plot [85]

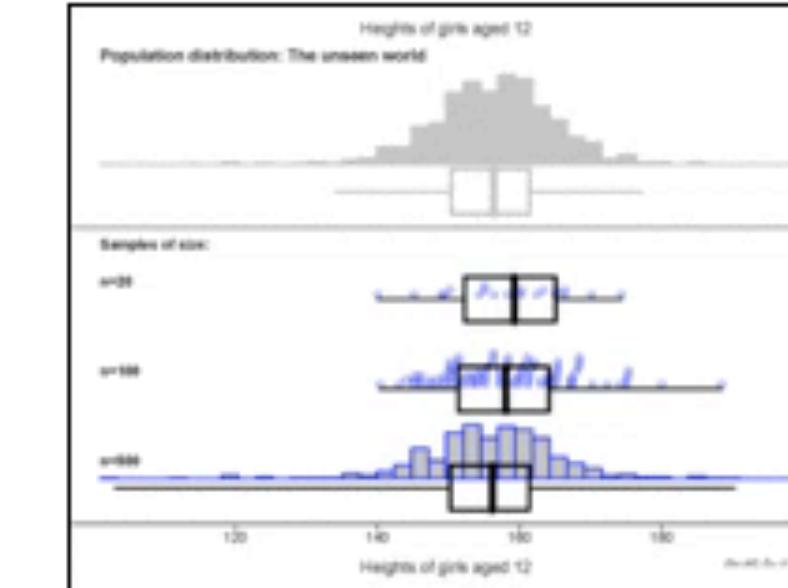
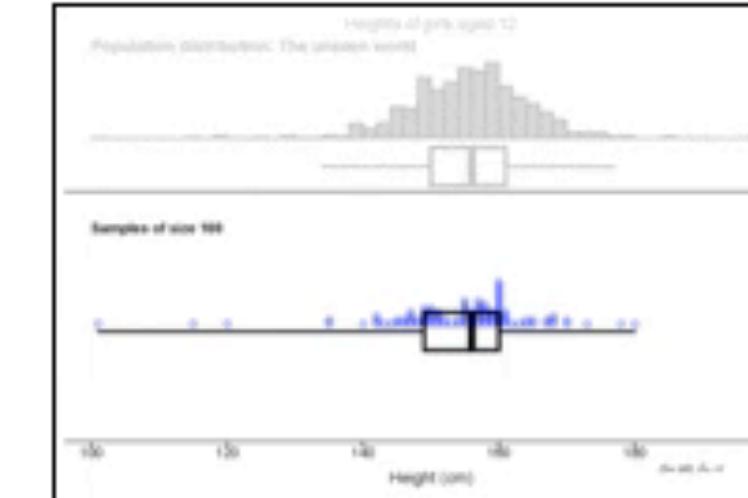
But...



Making the Call

Chris Wild, Nick Horton, Maxine Pfannkuch, Matt Regan

One Population



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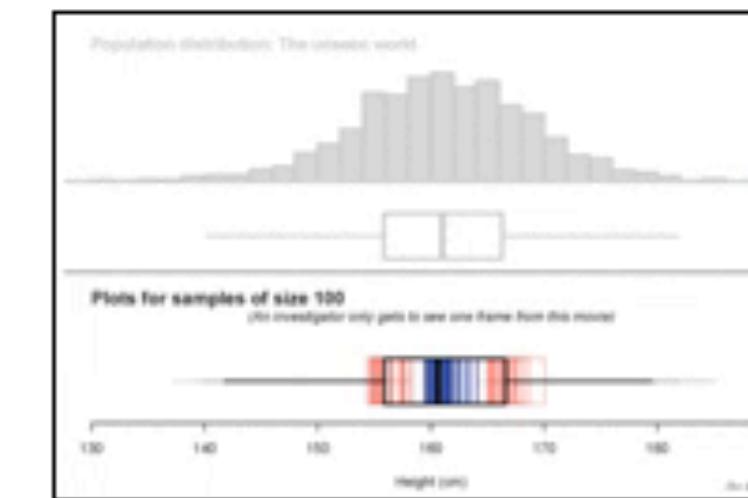
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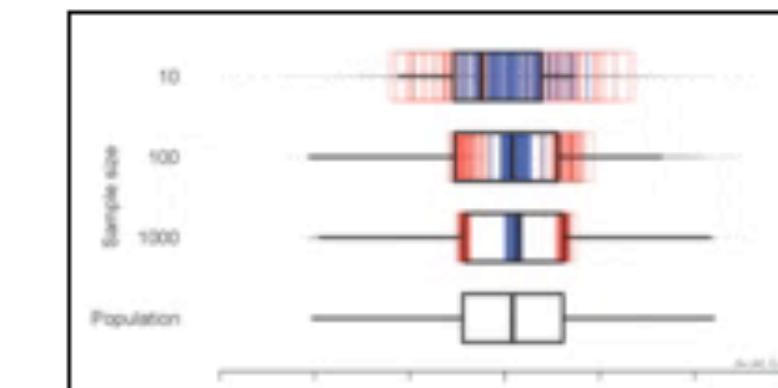
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1(a)



1(b)



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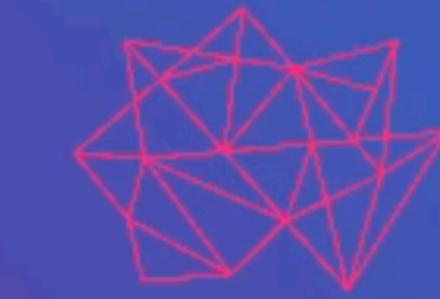
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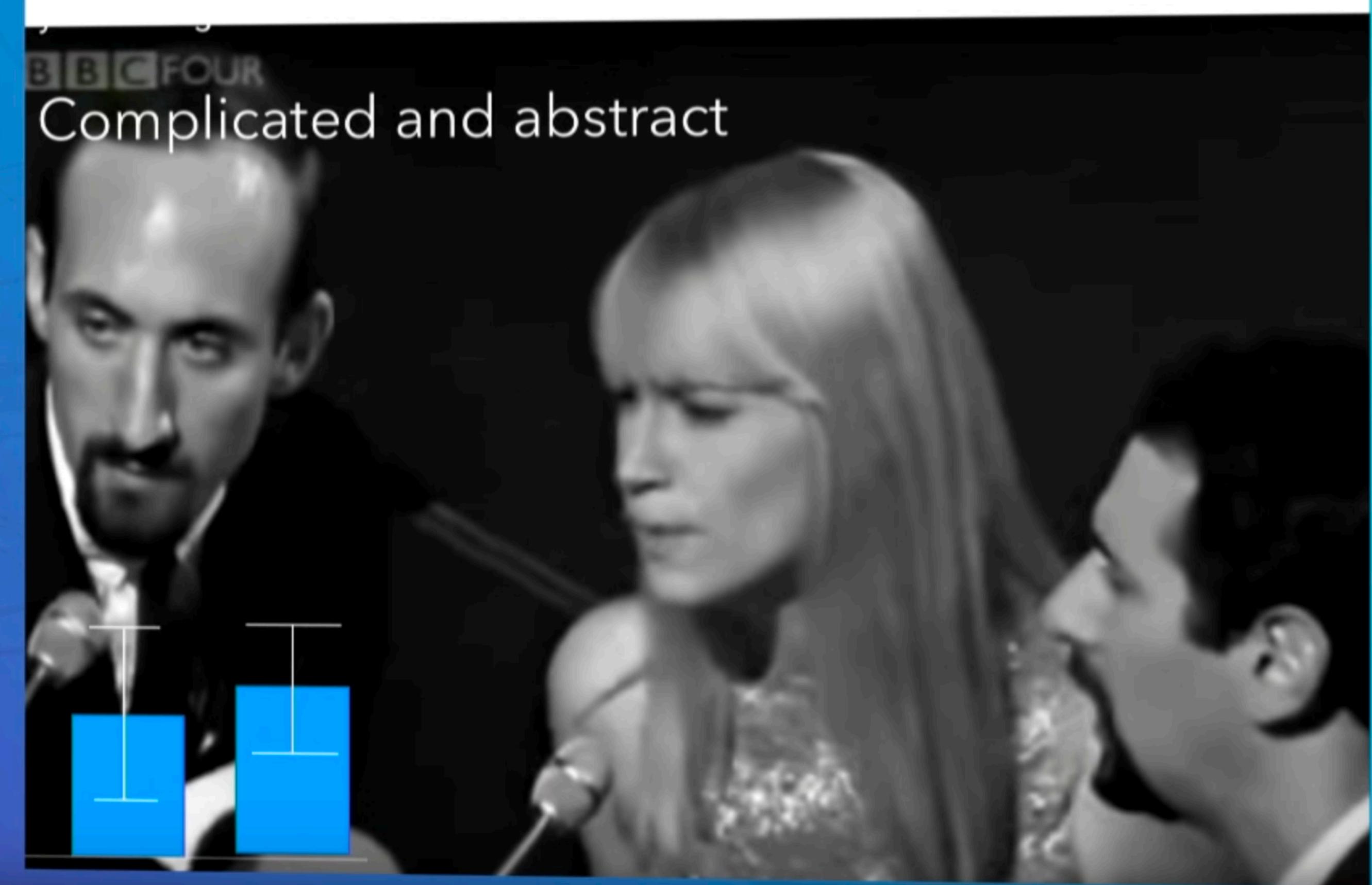
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2(a)

2(b)



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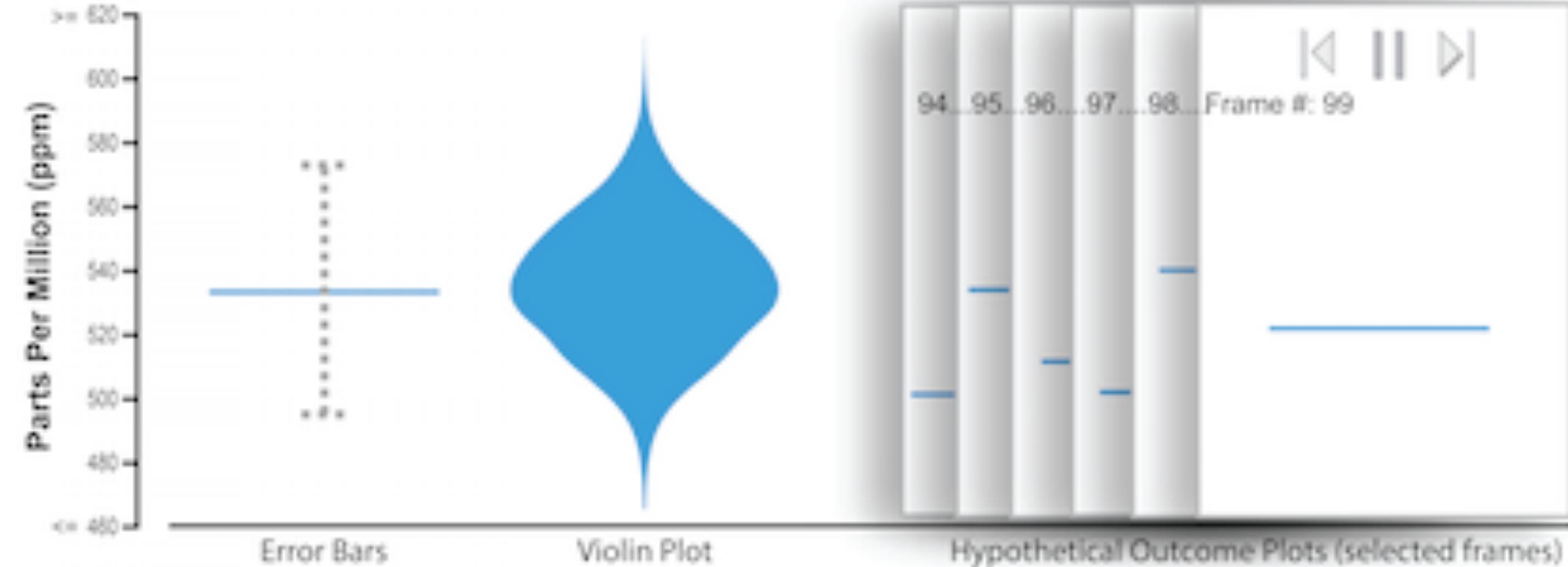
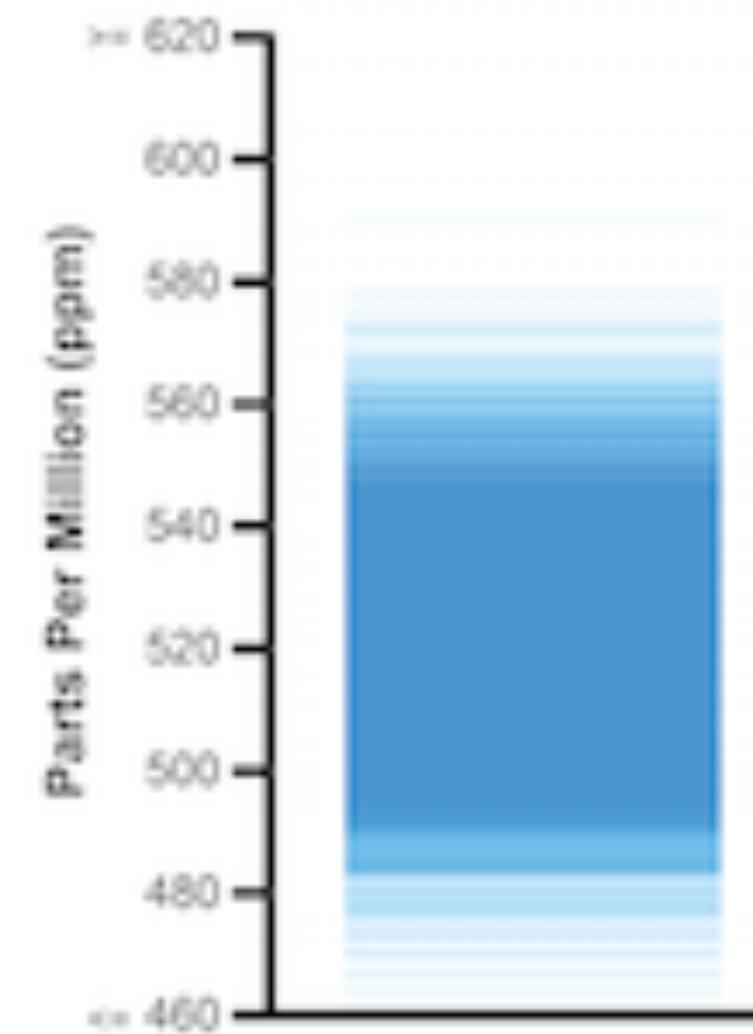
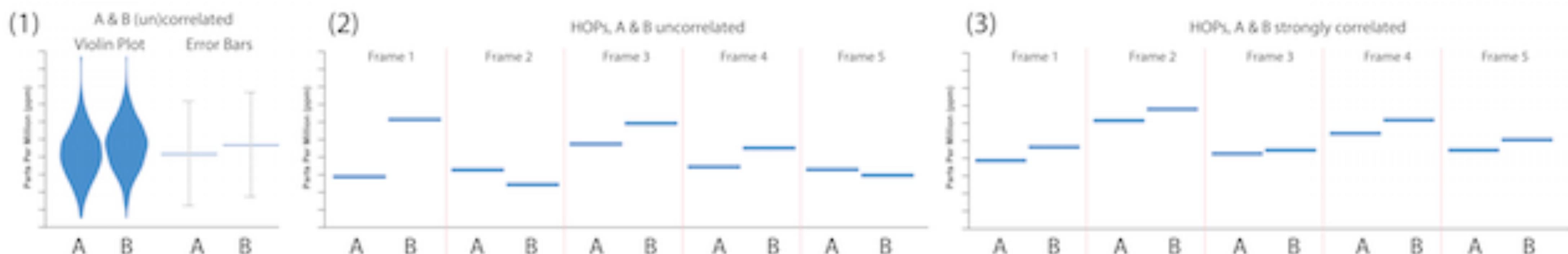
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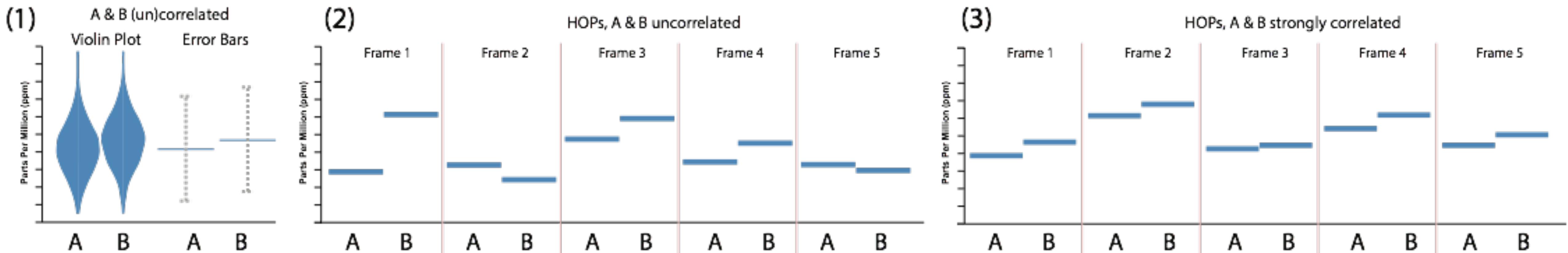
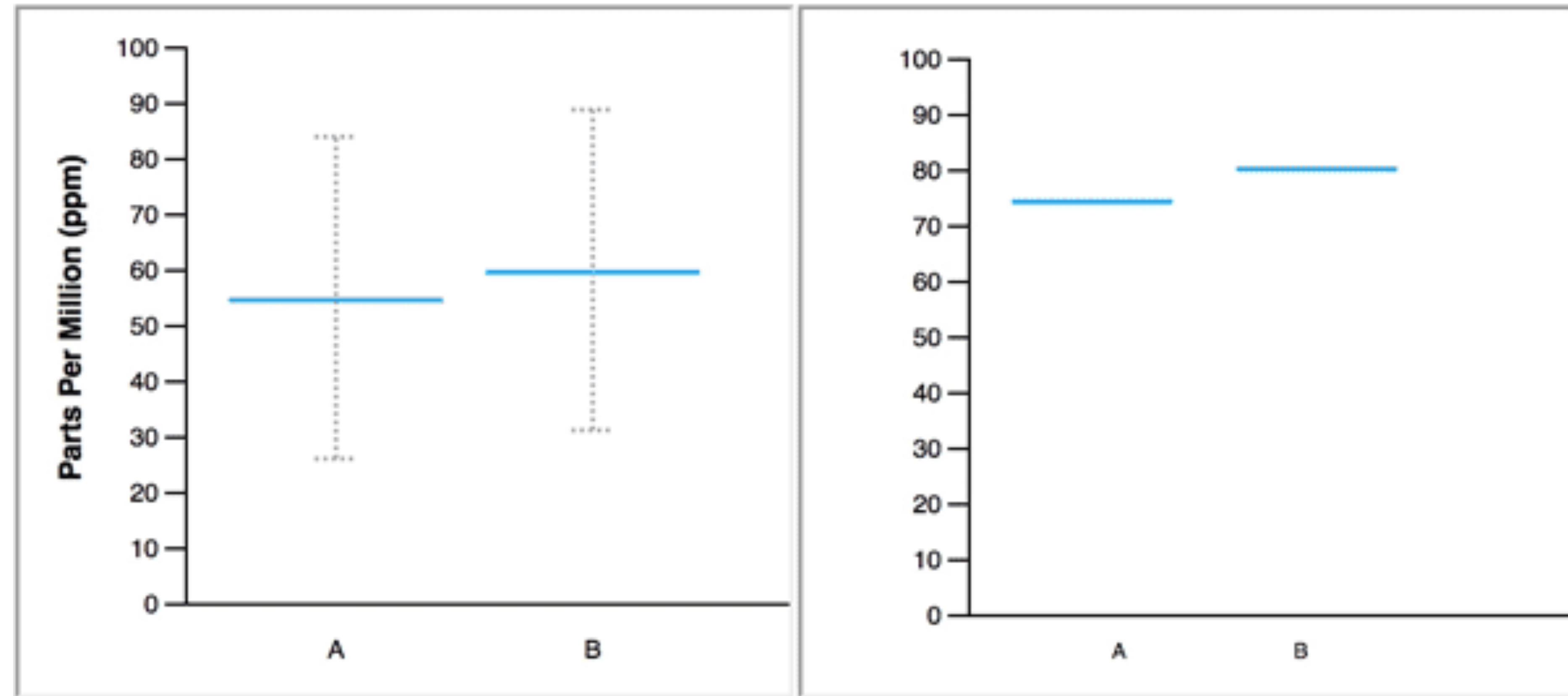
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1.5.1.2 2D

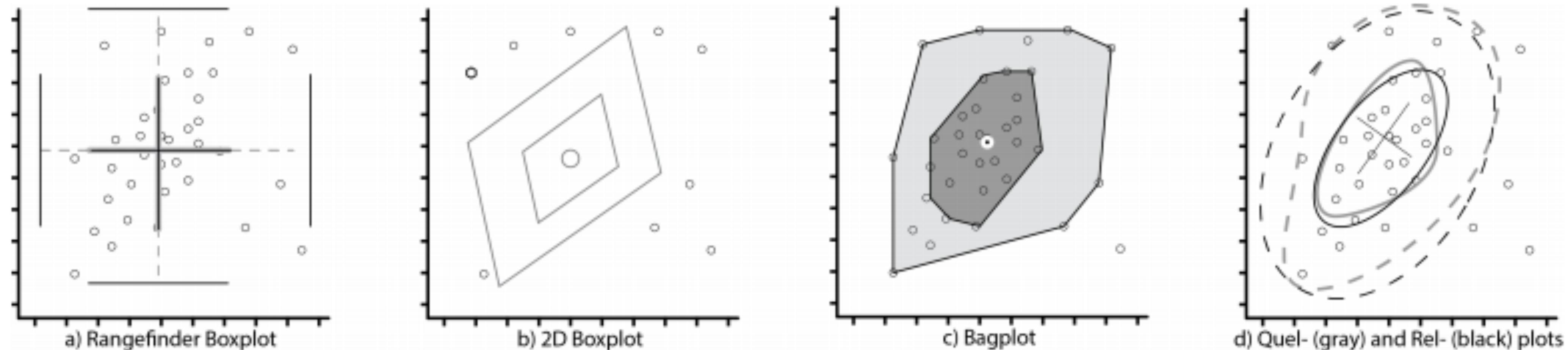
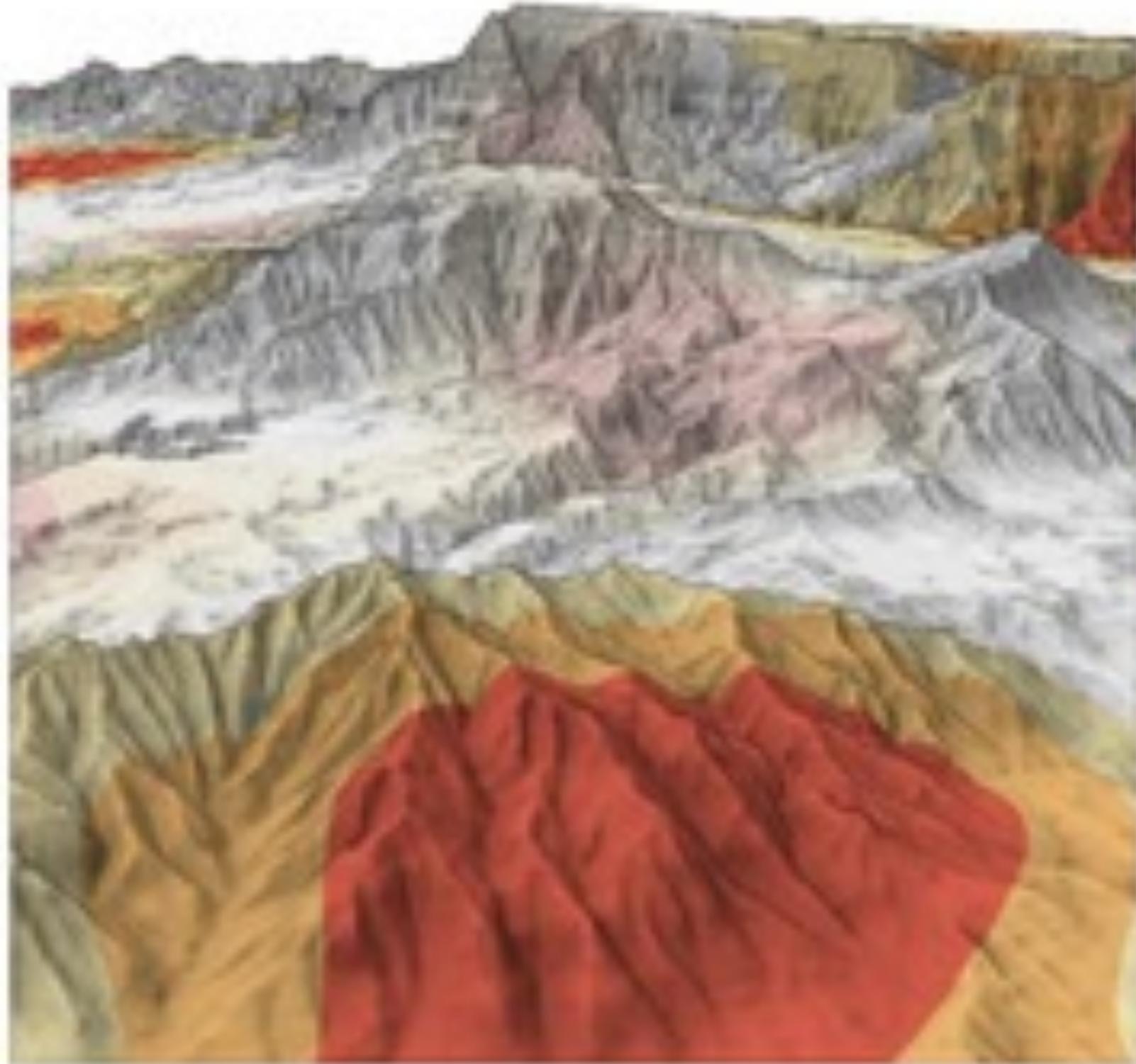


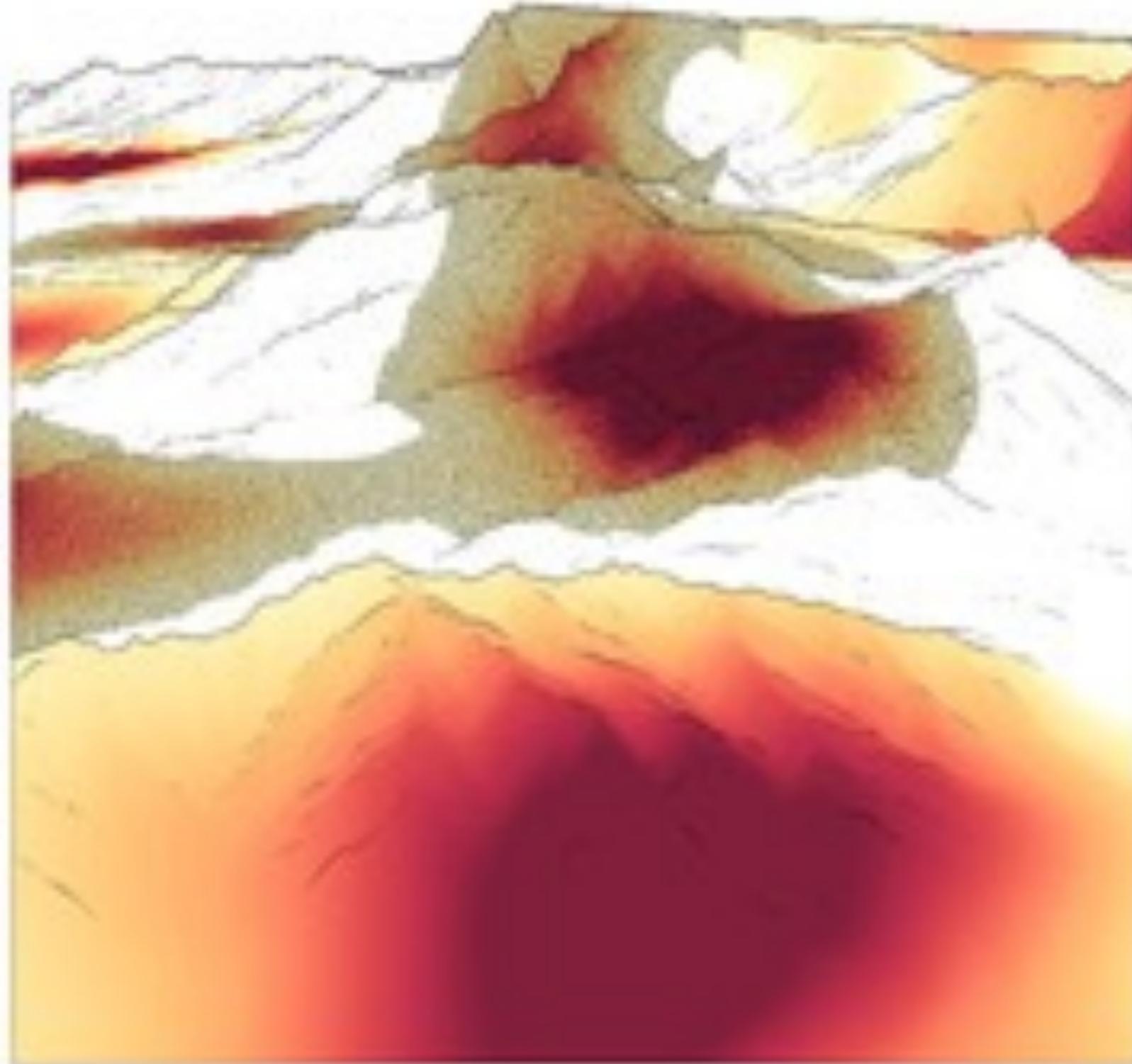
Fig. 1.3 Bivariate extensions of the boxplot. (a) The rangefinder boxplot [3]. (b) The 2D boxplot [102]. (c) The bagplot [91]. (d) The quel- and relplots [33]

Standard implementations of the boxplot focus on univariate data distributions. The five-number summary is a useful descriptor of not only univariate, but also

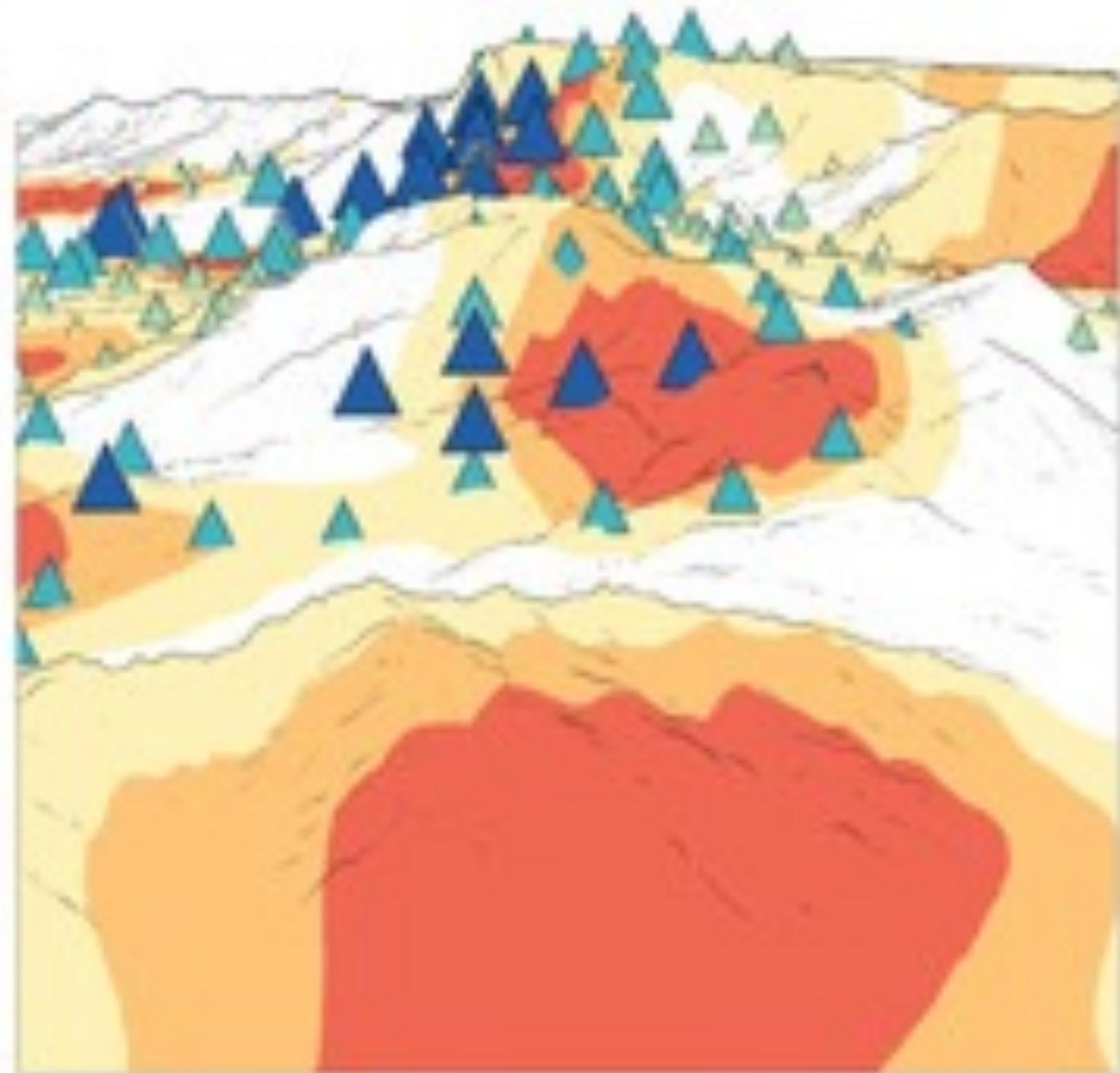
Spatial uncertainty



(a) Prioritizing terrain



(b) Prioritizing data



(c) Prioritizing uncertainty

Let's let Amanda Cox tell us what to do



Keynote - Amanda Cox

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