

How will Project 2 be graded?

DSC 106: Data Visualization

Sam Lau

UC San Diego

Component	Excellent	Satisfactory	Poor
Data Transformations <i>(per visualization)</i>	More advanced transformations (e.g., groupings, binnings, calculated fields, etc.) extend or manipulate the dataset in interesting and/or unexpected ways. <i>(0.5 points)</i>	The raw dataset was mostly used directly, with perhaps some simple transforms (e.g., sorting, filtering) to facilitate communicating the visualization's message. <i>(0 points)</i>	-
Marks, Encodings, and Visual Design <i>(per visualization)</i>	Visual design persuasively argues the visualization's stance (for/against the proposition), and facilitates effortless reading even when used deceptively. Any deceptive visual design choices are very subtle—even seasoned readers can only identify them on close study. <i>(2.5 points)</i>	Visual design is largely persuasive, but some issues hinder comprehension. Any deceptive visual design cannot be detected at first glance, but are identifiable on a second look. <i>(2 points)</i>	Visual design is distracting or makes the visualization unnecessarily or unintentionally difficult to read. Any deceptive design can be immediately identified. <i>(1.5 points)</i>
Titles, Labels, and Annotations <i>(per visualization)</i>	Titles, labels, and annotations persuasively describe, contextualize or frame the depicted data. Any slants that may be considered deceptive are imperceptible to the reader. <i>(2 points)</i>	Necessary titles and labels are present, but annotations could be better used to persuasively narrate the visualization's stance. Any deceptively slanted content is more easily detectable by readers. <i>(1.5 points)</i>	Several titles or labels are missing, or do not provide human-understandable information. Annotations are rarely used. Strong, charged, or colorful language makes it easy to detect deceptive content. <i>(1 point)</i>
Design Rationale and Reflection	Well crafted write-up provides reasoned justification for all design choices with a thoughtful reflection on their ethical implications. <i>(4 points)</i>	Most design decisions are described, but rationale or ethical reflections could be explained at a greater level of detail. <i>(3 points)</i>	Missing or incomplete. Several design choices are left unexplained, and/or ethical reflection is relatively shallow. <i>(2 points)</i>
Creativity and Originality	You exceeded the parameters of the assignment, with creative, original or a particularly engaging designs. <i>(up to +1 bonus point)</i>	You met all the parameters of the assignment. <i>(0 points)</i>	-

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Keyword here is **interesting**
(beyond just a groupby + mean)

Can I cherry-pick data?
Yes, if you come up with a valid-sounding reason for doing so. Remember that you must describe the transformations in the plot itself (not just in the writeup).

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Design Rationale and Reflection	<p>Key word is subtle.</p> <ul style="list-style-type: none"> – Only relying on axis manipulations (e.g. dual axes) caps you at Satisfactory – Try counting things differently! 		
Creativity and Originality	You exceeded the parameters of the assignment, with creative, original or a particularly engaging designs. <i>(up to +1 bonus point)</i>	You met all the parameters of the assignment. <i>(0 points)</i>	-

Visualizations will be graded on **effectiveness**. E.g. avoid overplotting, avoid pie charts, use perceptually uniform color scales, etc.

If you use a map, we expect to see some **geospatial interpretation**. "Could this data be better shown as a bar plot?" If yes, caps score at Satisfactory.

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Titles, Labels, and Annotations <i>(per visualization)</i>	<p>Titles, labels, and annotations persuasively describe, contextualize or frame the depicted data. Any slants that may be considered deceptive are imperceptible to the reader. <i>(2 points)</i></p>	<p>Necessary titles and labels are present, but annotations could be better used to persuasively narrate the visualization's stance. Any deceptively slanted content is more easily detectable by readers. <i>(1.5 points)</i></p>	<p>Several titles or labels are missing, or do not provide human-understandable information. Annotations are rarely used. Strong, charged, or colorful language makes it easy to detect deceptive content. <i>(1 point)</i></p>
Design Rationale and Reflection	<p>Well crafted write-up provides reasoned justification for all design choices with a thoughtful reflection on their ethical implications. <i>(4 points)</i></p>	<p>Most design decisions are described, but rationale or ethical reflections could be explained at a greater level of detail. <i>(3 points)</i></p>	<p>Missing or incomplete. Several design choices are left unexplained, and/or ethical reflection is relatively shallow. <i>(2 points)</i></p>
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– Titles and annotations are graded similarly to Project 1. Avoid "X vs. Y" titles!

– Annotations should guide readers to an interpretation

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Marks, Encodings, and Visual Design <i>(per visualization)</i>	<p>From the project 2 page, for each design decision:</p> <p>"How does this decision help make your visualization persuasive? What worked well, and what didn't? What other alternatives did you consider, and why did you settle on this one?"</p>		
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"How does this decision help make your visualization persuasive? What worked well, and what didn't? What other alternatives did you consider, and why did you settle on this one?"

Looking for a personal reflection on ethics. How did doing this project affect **your views?**

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If we can copy-paste your reflection into someone else's Project 2, it's not specific enough!

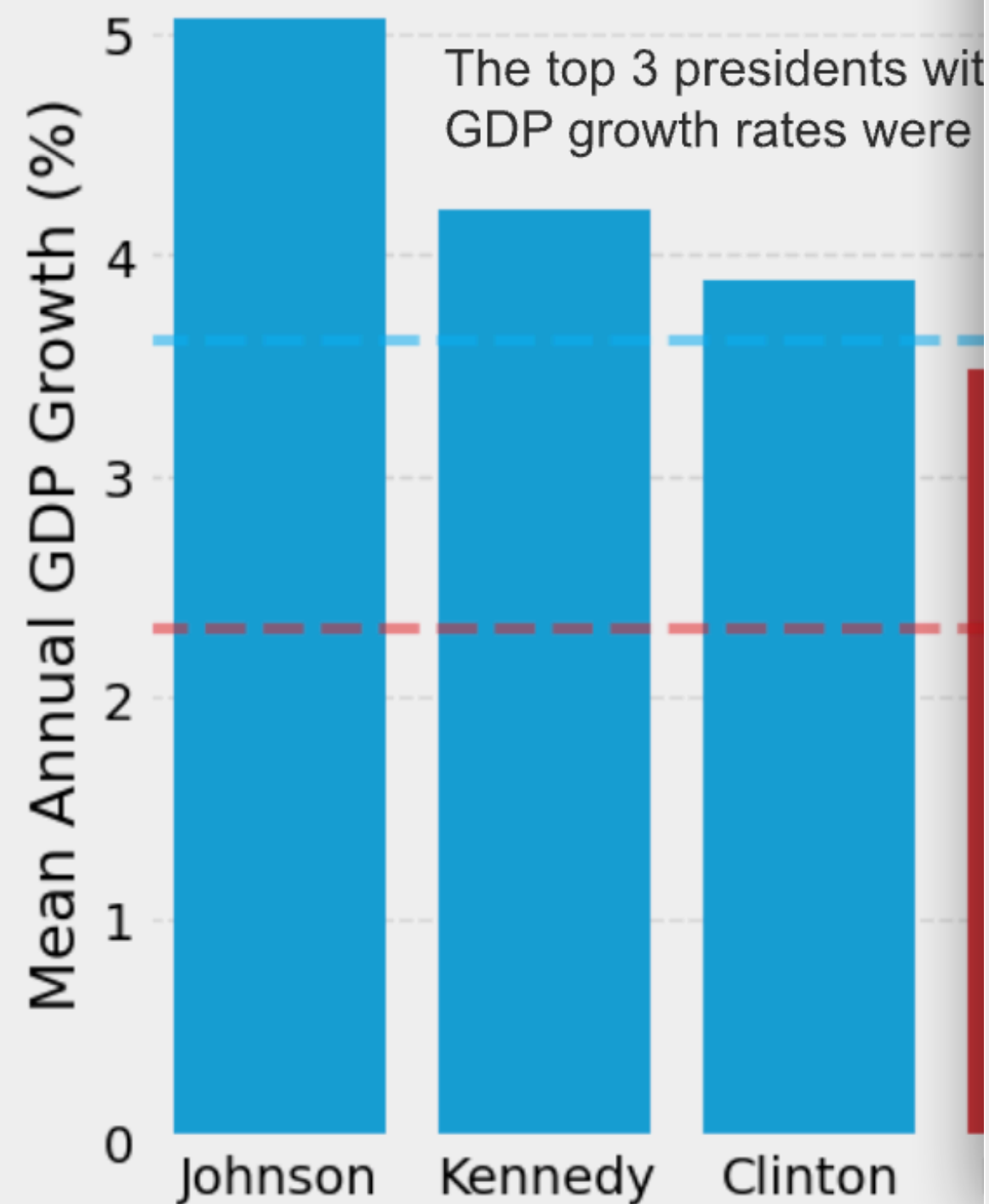
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Creative encodings, engaging design, interesting external data, etc.

Nifty Project 2 Submissions (from the past)

Who's the Fiscal Leader? Democrats Lead

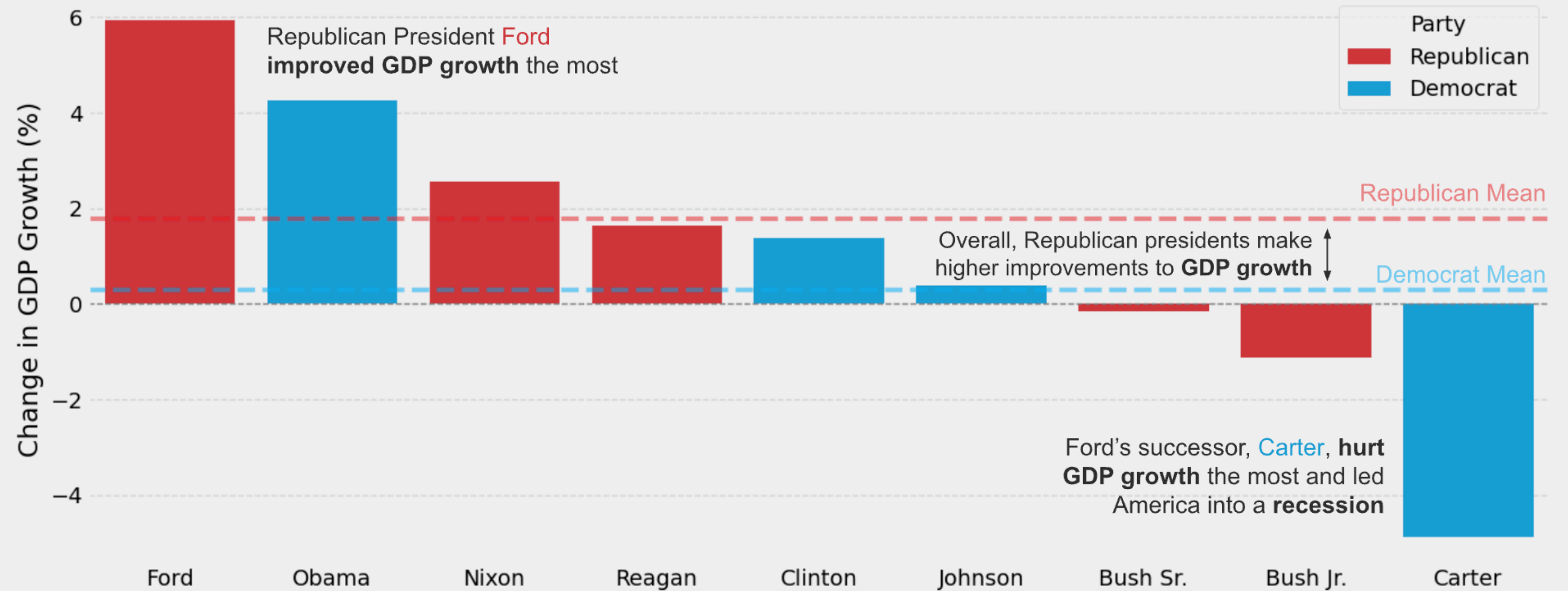
Mean G



Source: The World Bank

Common Sense Fiscal Policy Works. Republicans Lead to Higher GDP Growth

Change in GDP Growth (%) between Start and End of Terms of each President (1963-2016)

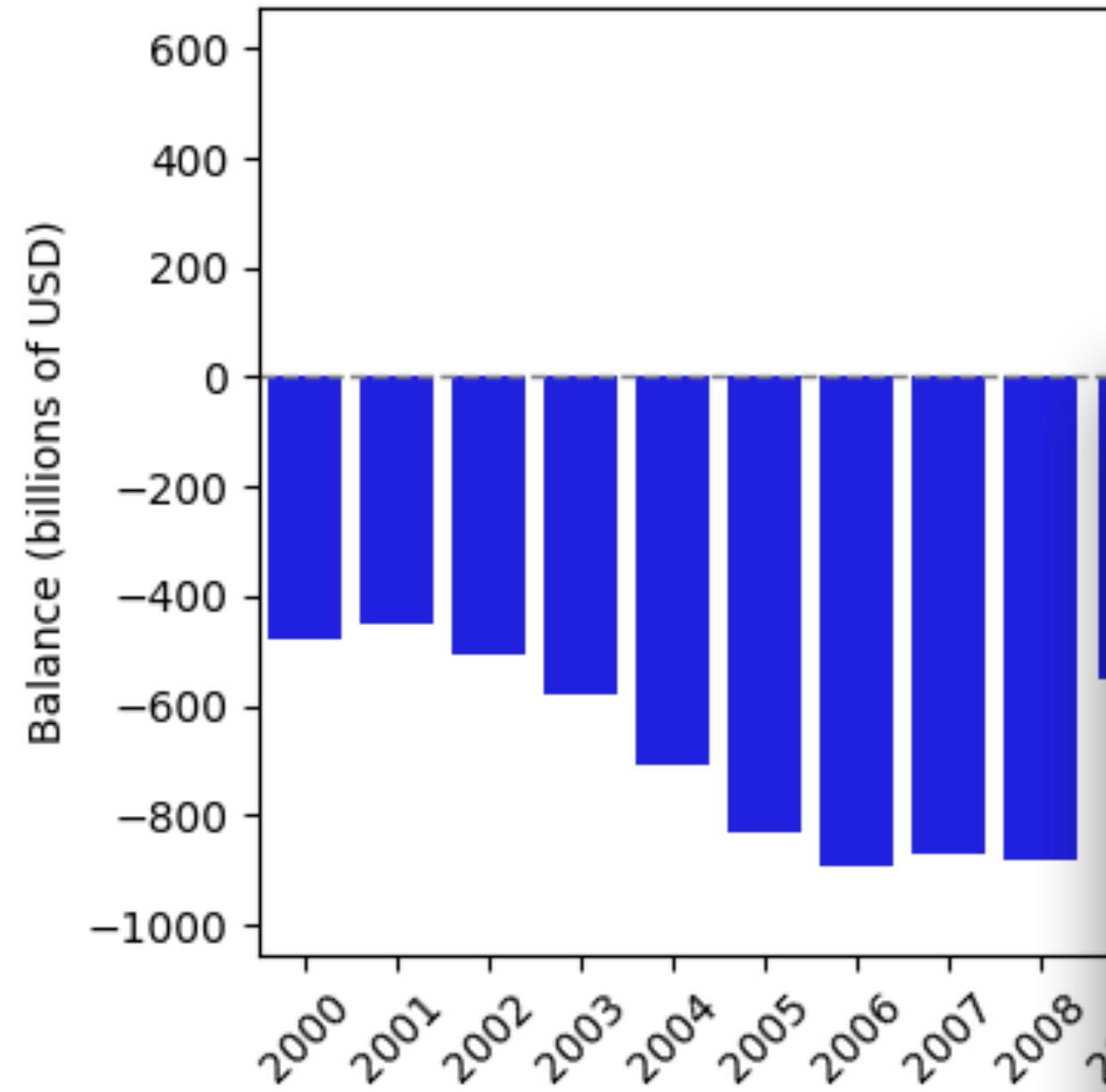


Source: The World Bank

Merchandising Trade Balance Comparison: U.S. vs China (2000-2020)

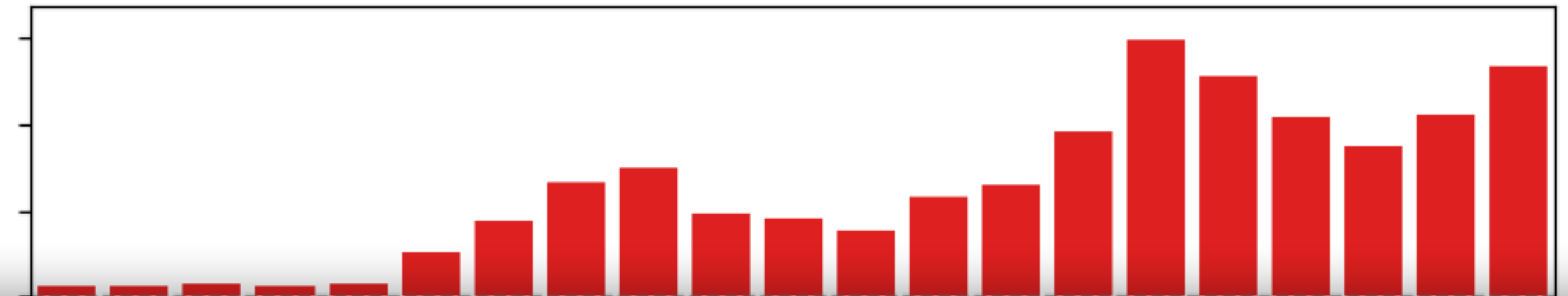
How Unfair Trade Practices Shaped the Increasing Divergence in Trade Balance Between the U.S. and China

United States Merchandise Trade Balance



Source: World Bank

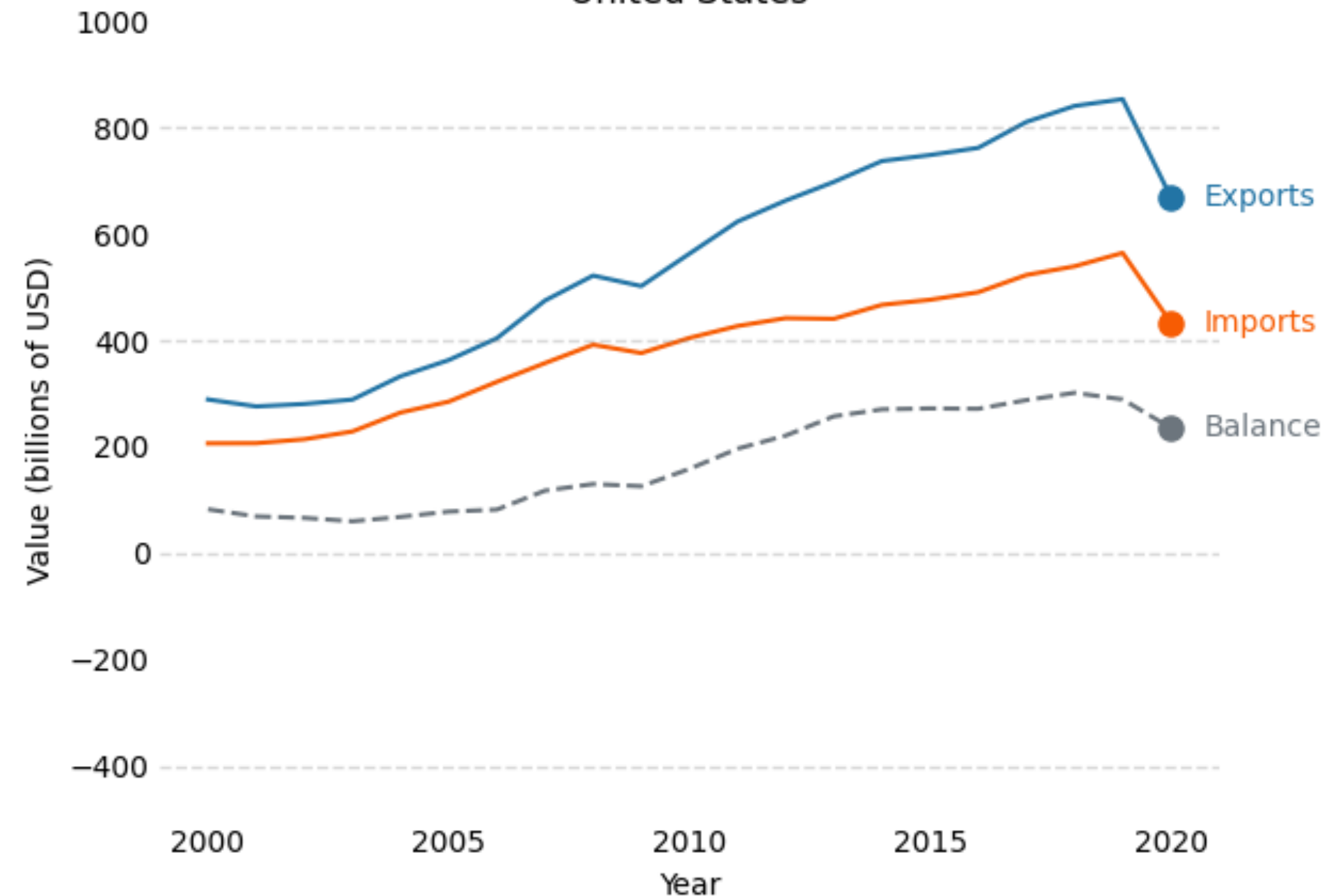
China Merchandise Trade Balance



Service Trade Balance Comparison: U.S. vs China (1990-2020)

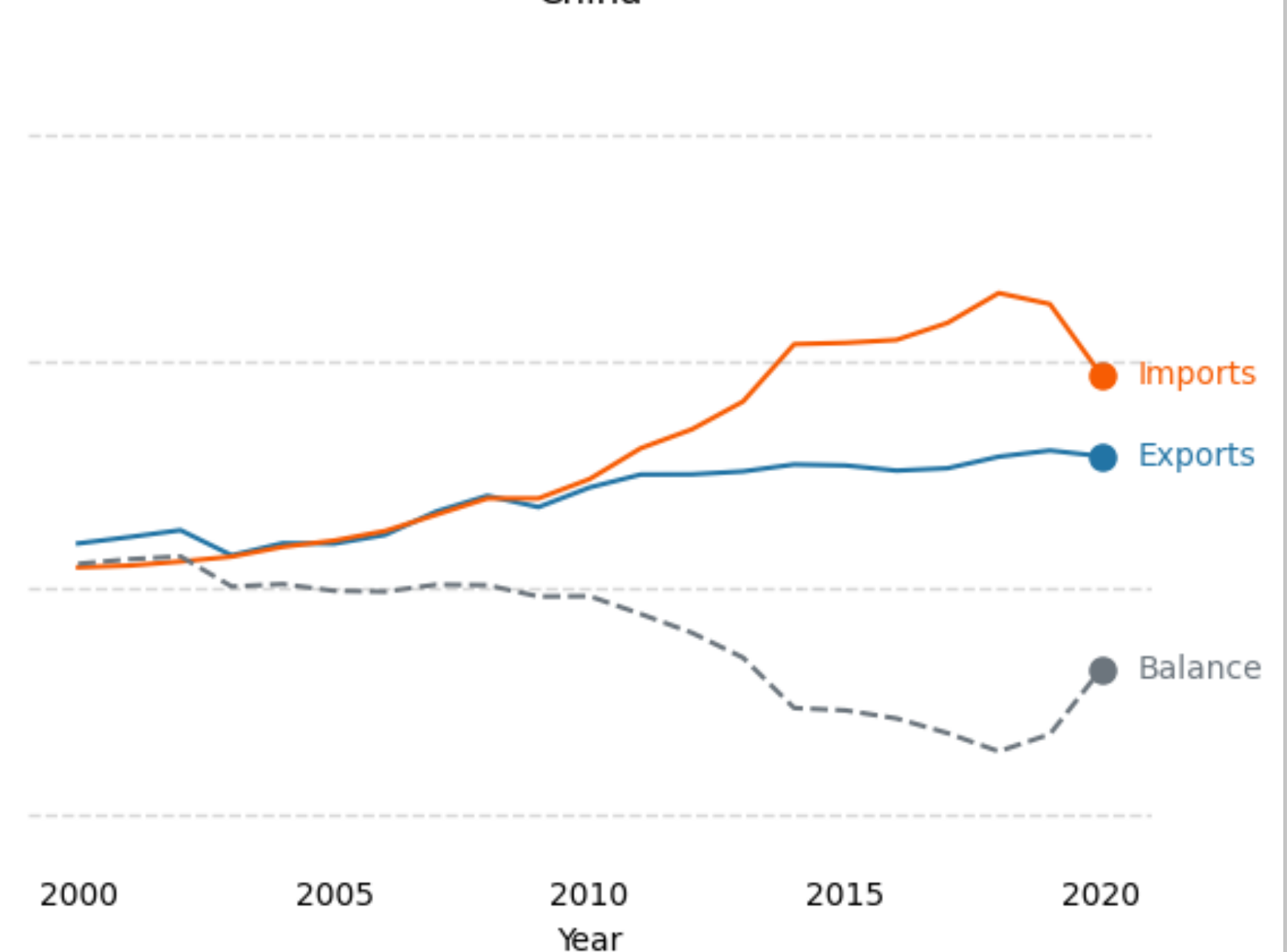
While China ships goods, the United States exports expertise, innovation, and global influence

United States



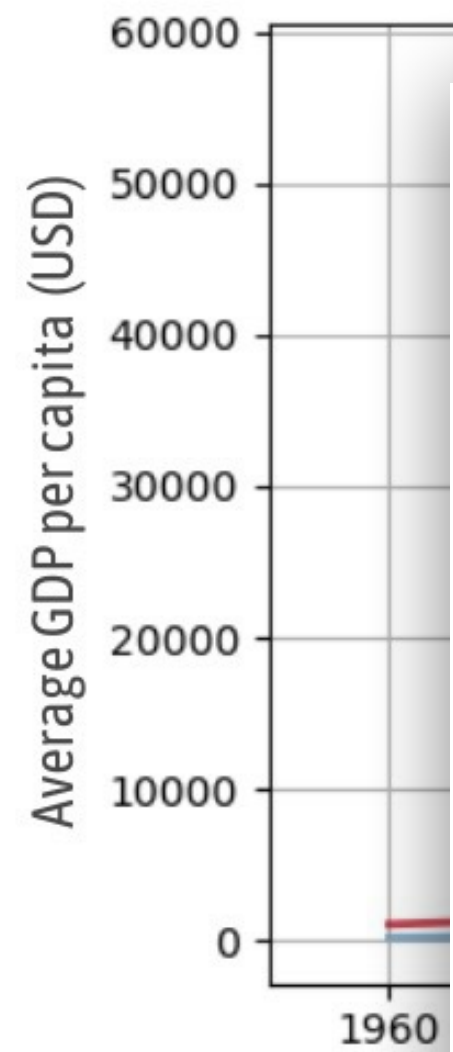
Source: World Bank

China



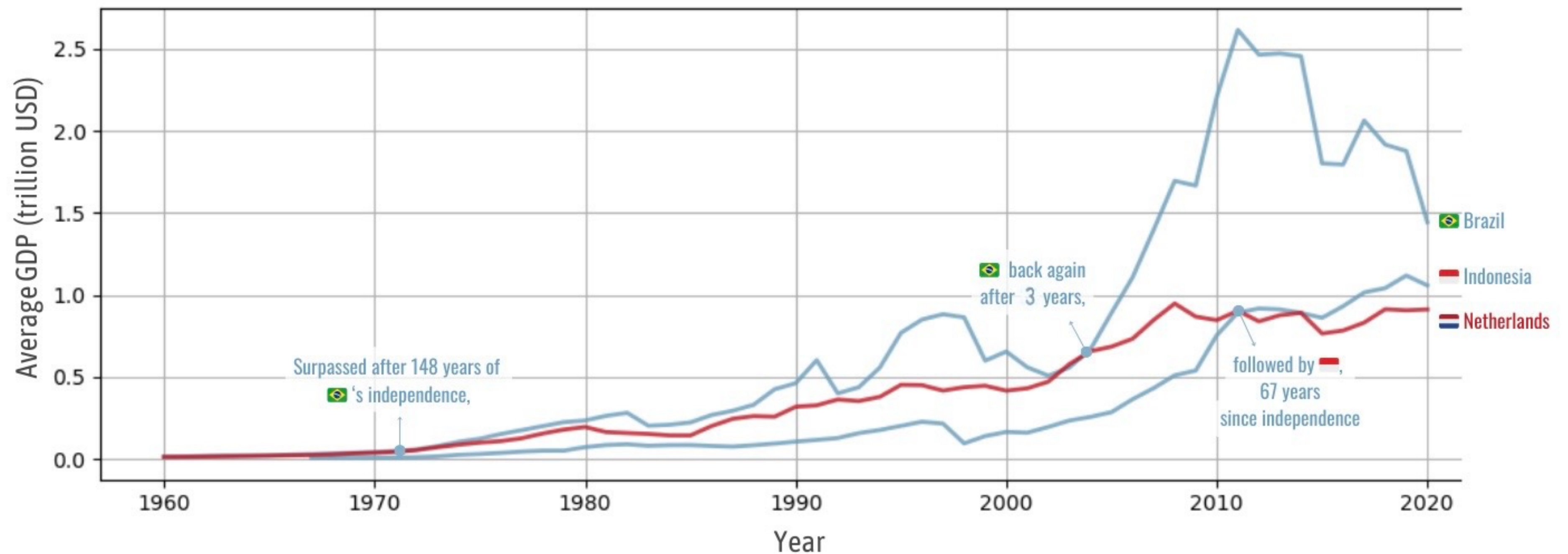
Beyond Independence: A Growing Divide

Indonesia and Brazil's GDP per capita remains far below that of their former colonizer, the Netherlands



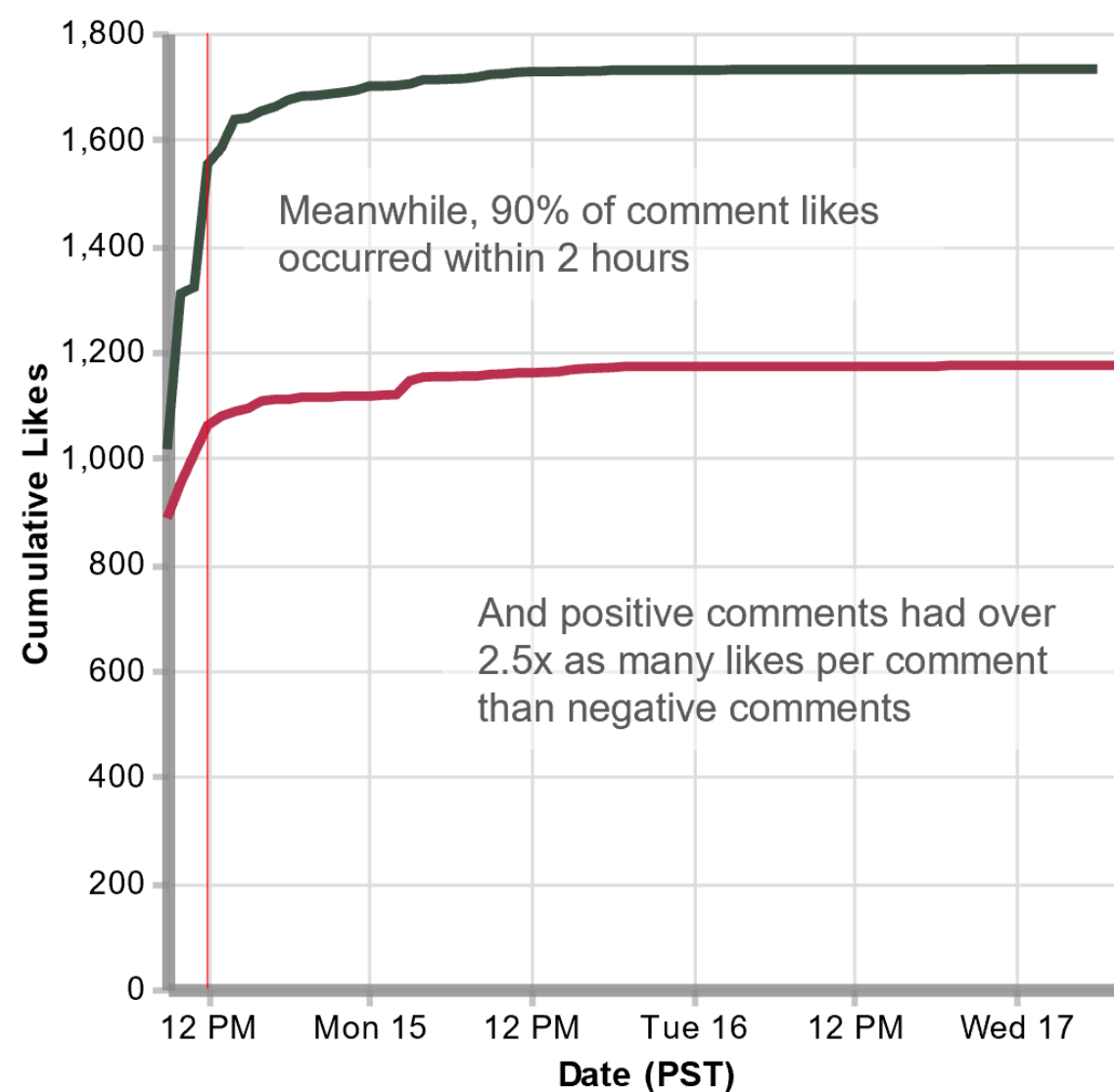
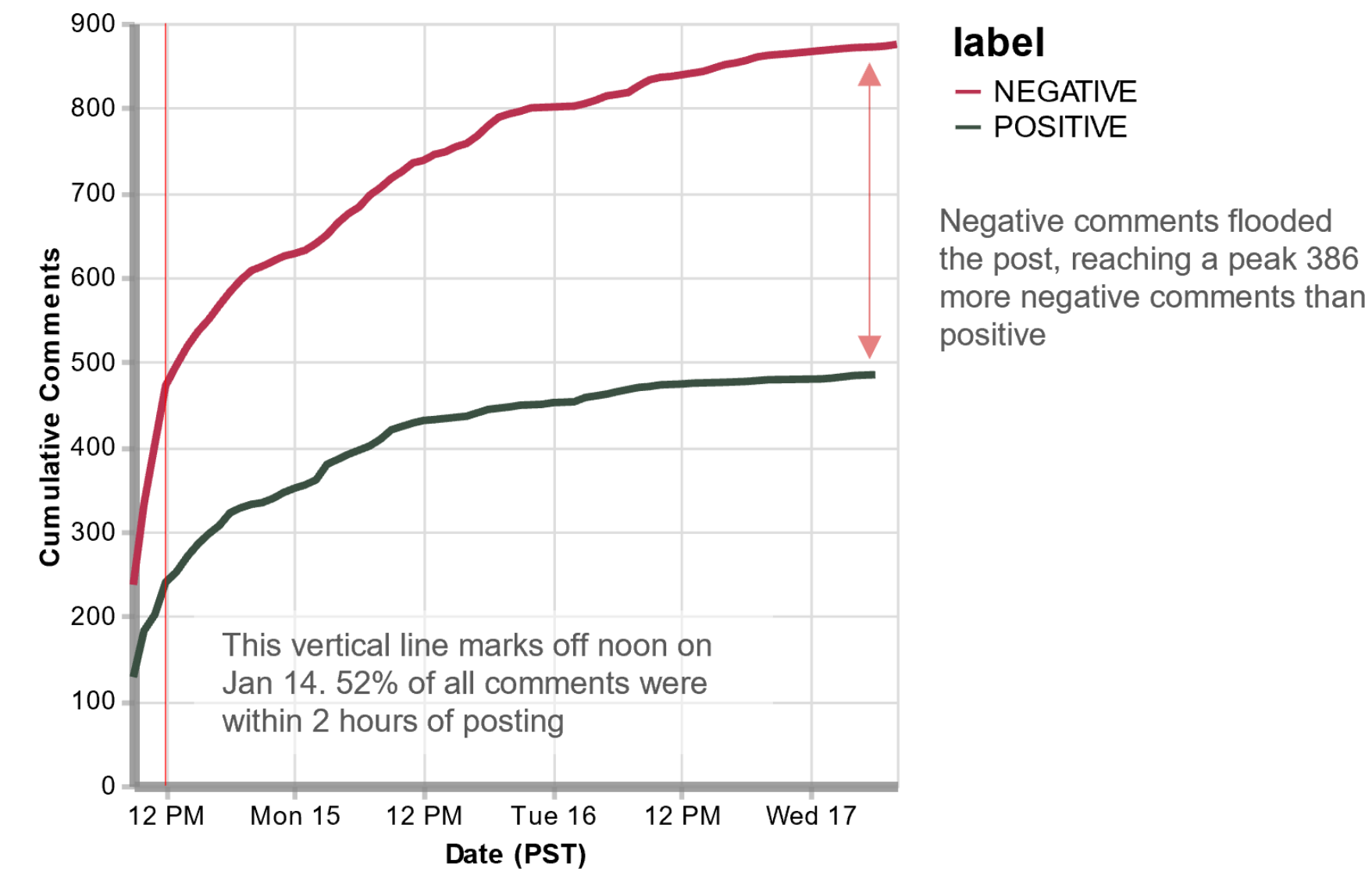
COLONIZED, NOW CAPITALIZED

Indonesia & Brazil – previously Netherlands' colonies – now outpace economically



Digital Engagement in Politics: Diving into a Facebook Comment Section

Early January, President Biden announced he created 14 million new jobs while in office. 1,360 Facebook comments on the POTUS Facebook post were analyzed with Hugging Face sentiment analysis



No One Likes Biden: Diving into a Facebook comment section

Early January, President Biden announced he created 14 million new jobs while in office. 1,360 Facebook comments on the POTUS Facebook post were analyzed with Hugging Face sentiment analysis. Most comments weren't liked. Let's look at what was.

