A few notes about decomposing the two way fixed effects estimator

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What is this?

Objective

 Introduce the Chaisemartin & D'Haultfoeuille (forthcoming, AER; CD) & Goodman-Bacon (2019 WP; GB) decomposition of the two way fixed effects estimator and link them.

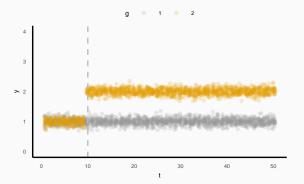
Disclaimer

- The slides represent my understanding. It might be wrong and there will be mistakesg. Please let me know.
- There is a lot more in CD's and GB's papers.
- I don't discuss assumptions (!) and extensions.
- Please see the original papers.

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The traditional difference-in-differences (DD)

The running example



 t: period, g: group, y: outcome, d: treatment indicator, g = 1 is never treated, g = 2 is treated from t = 10.

The traditional DD

