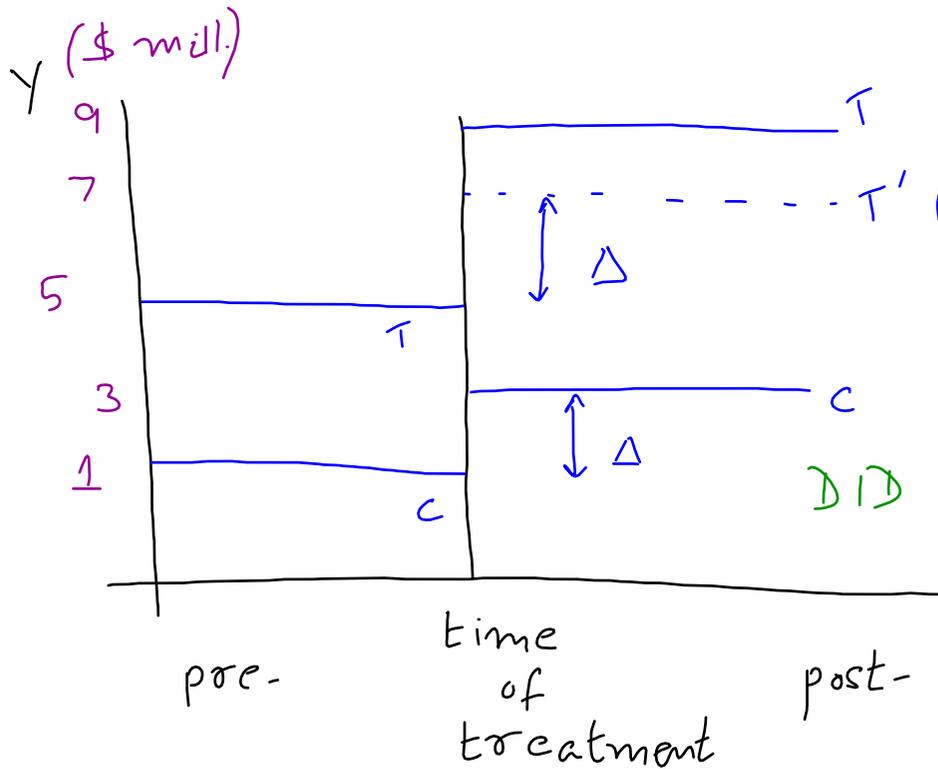


Difference in Differences (DID)

2 groups \rightarrow treated (T) and control (C)

2 pds. \rightarrow pre-treatment and post-treatment



effect on T $> 0 = 2$

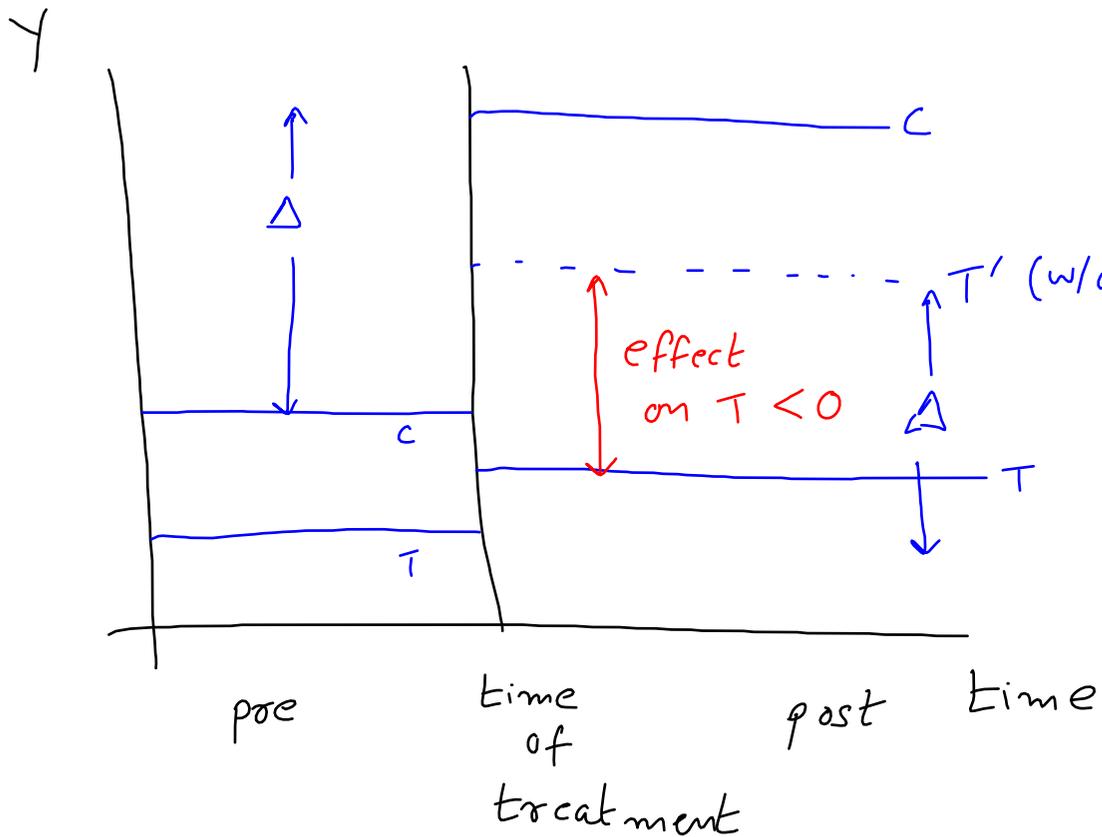
e.g. Y \rightarrow profit

treated: firms w/
training

control: firms w/o
training

$$DID = \text{diff. in T} - \text{diff. in C}$$

time



DID = diff. in T

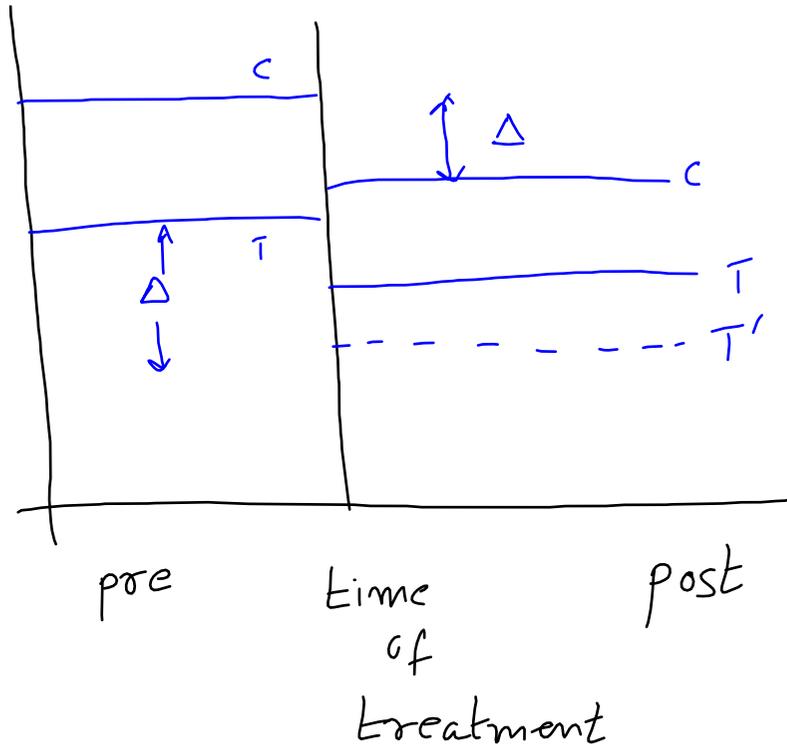
— diff. in C

e.g. $Y \rightarrow$ property value

T : houses close to incinerator

C : houses away

Y



e.g. employment
(fast food)

↑ effect on $T > 0$
(w/o treatment)

T: min wage ↑ (NJ)

C: " same (PA)

time

DID = diff. in T

- diff. in C

