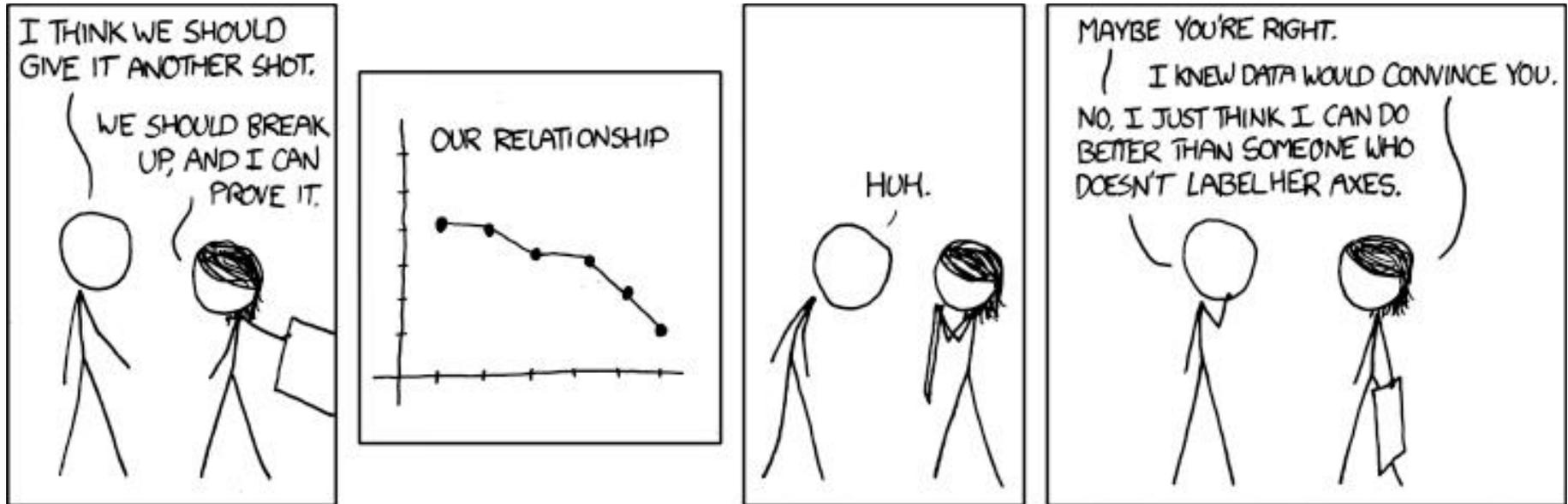


■ Theme Music: Rustcycle

Capacitance

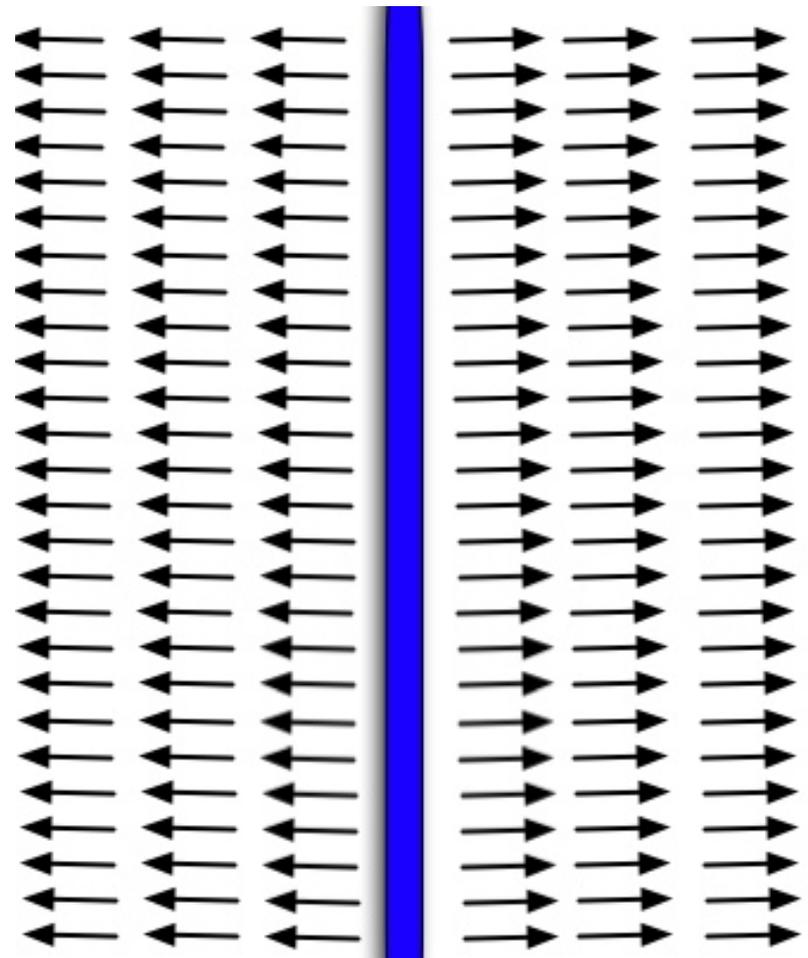
■ Cartoon: Randall Munroe

xkcd

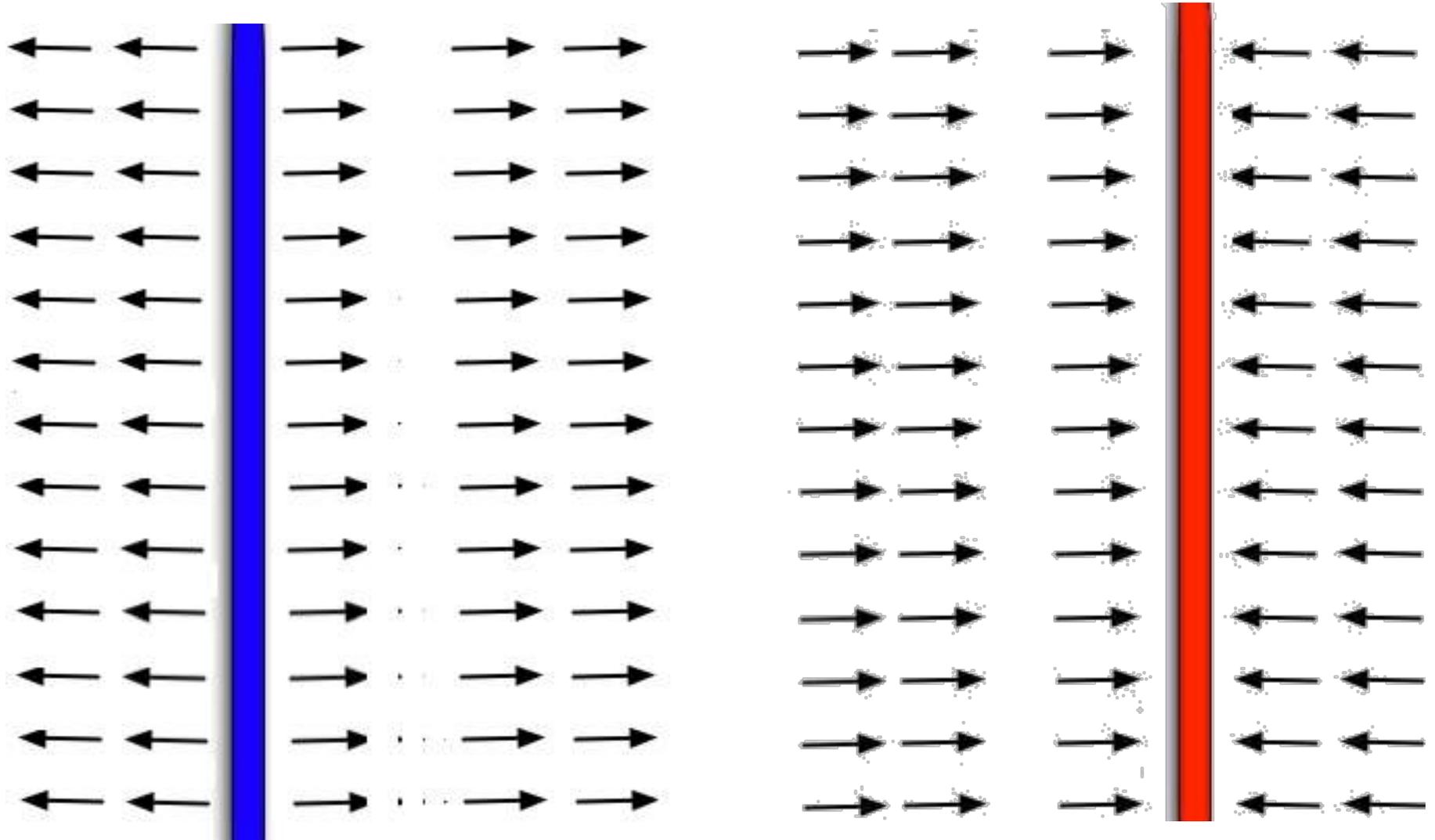


The sheet of charge

- Field is constant, pointing away from positive sheet, towards negative sheet.
- Constant!!?
How can that be?



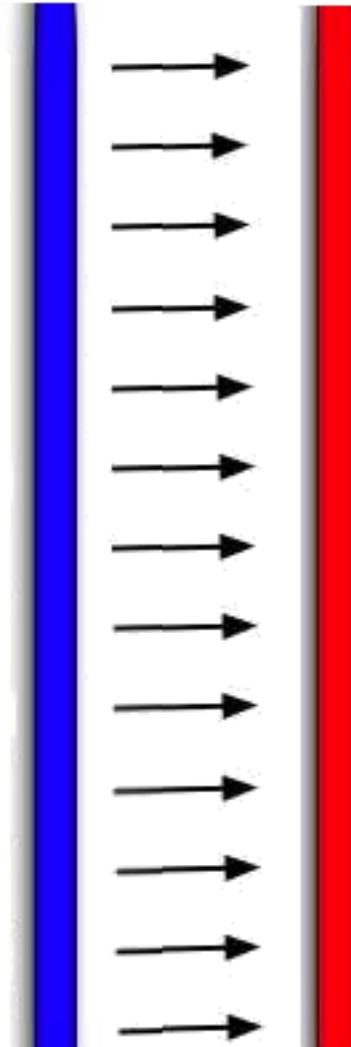
Two sheets of charge



Result

The fields of the two plates cancel each other on the outside.

The fields of the two plates add on the inside, producing double the field of a single plate.



The fields of the two plates cancel each other on the outside.