

## Homework 7: Voting Systems

*Due Tuesday, Week 8, at the start of class**UCSB 2015*

Work on these problems for 90m/until you solve everything/longer if you're interested!

1. In class, we saw that one natural idea of a “fair” voting system led to some fairly awful situations: the only voting systems we could come up with were dictatorships! Fix this, as follows: Create a voting system for that (1) has no dictators and (2) satisfies unanimity. Come up with a situation where your voting system fails the independence of irrelevant alternatives condition.

Does your voting system seem like a “good” system to implement? Would you want people to use it? Do any countries in the world use this system already?