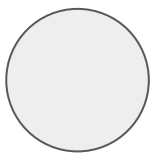
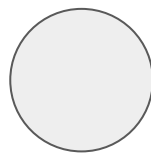
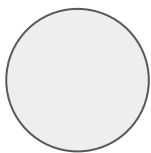


lightning x liquidity

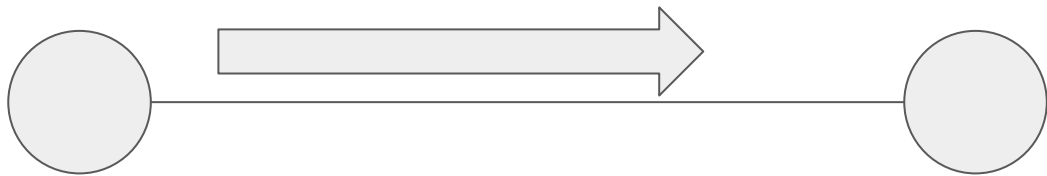
lightning x liquidity

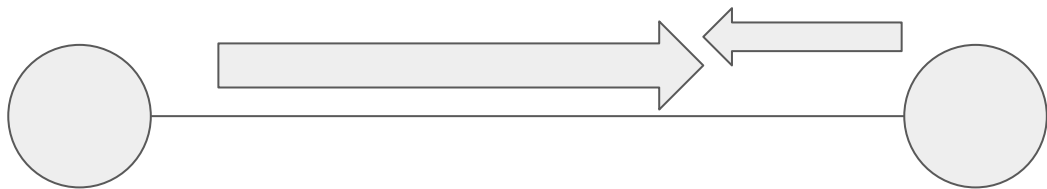
rebalancing edition

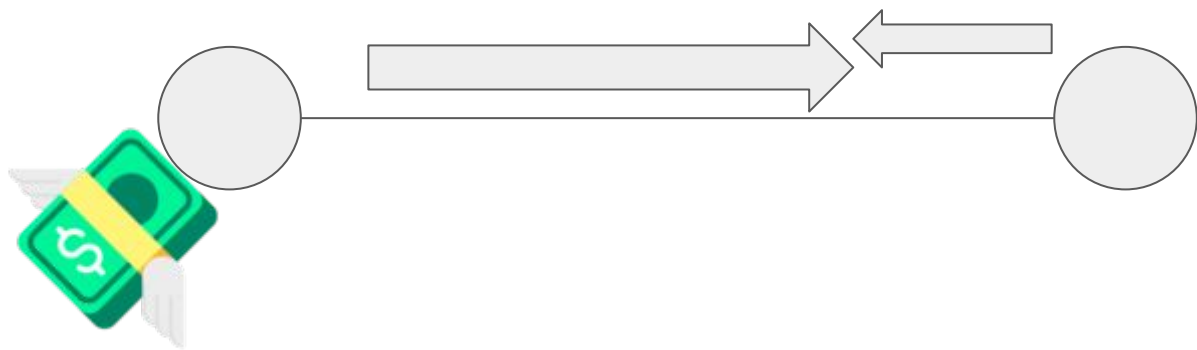


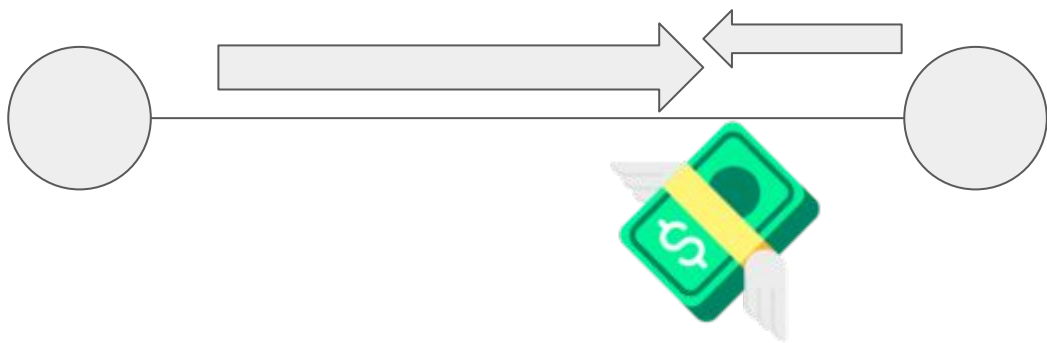


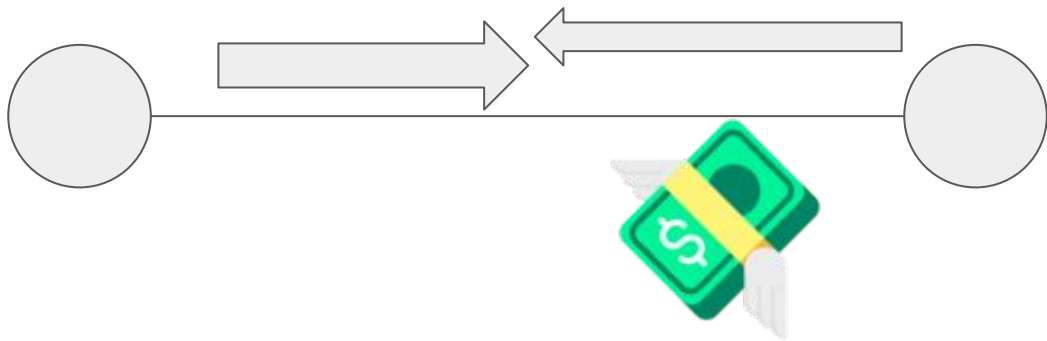


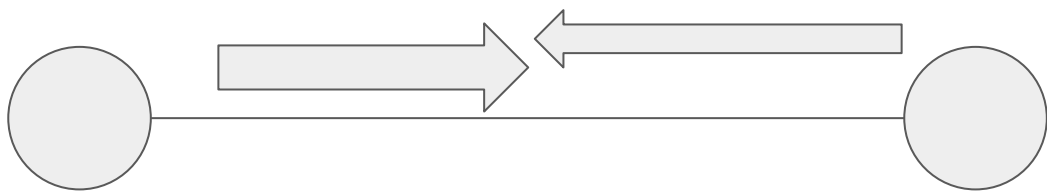


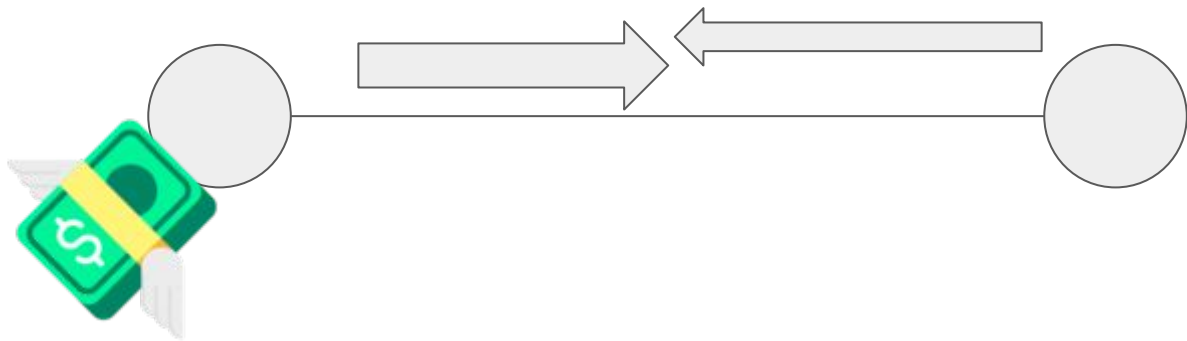


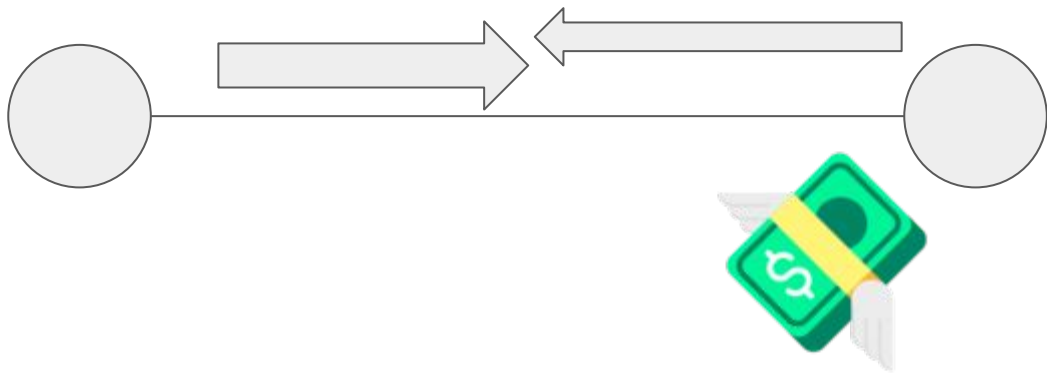




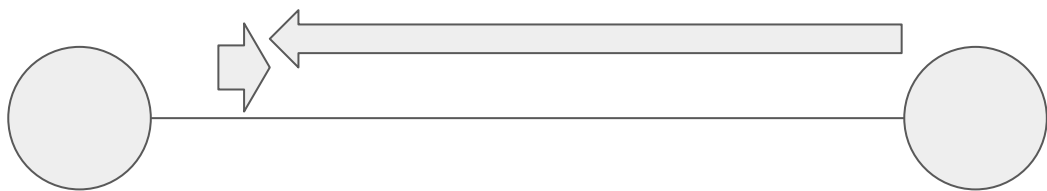


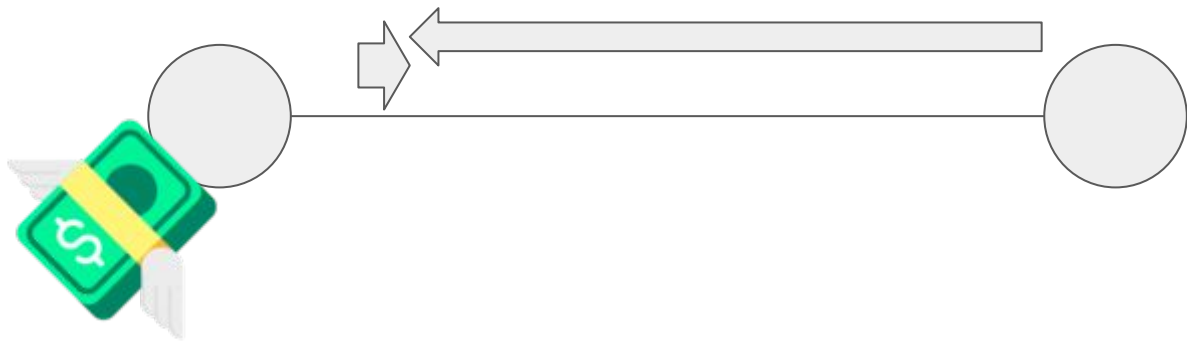


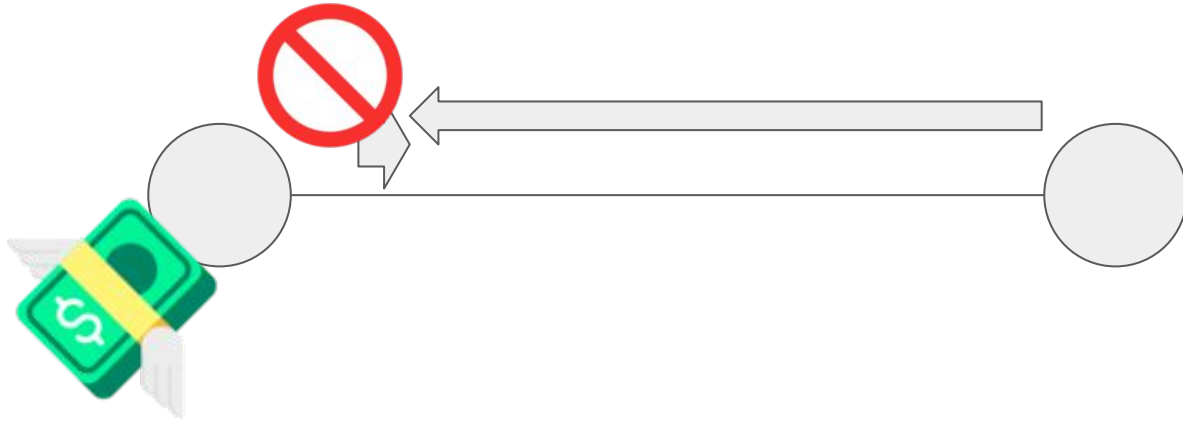


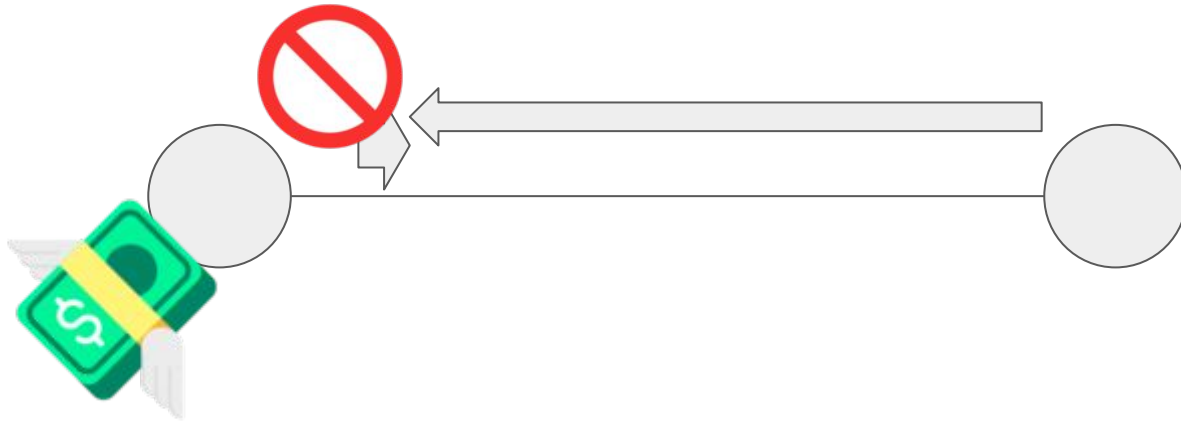




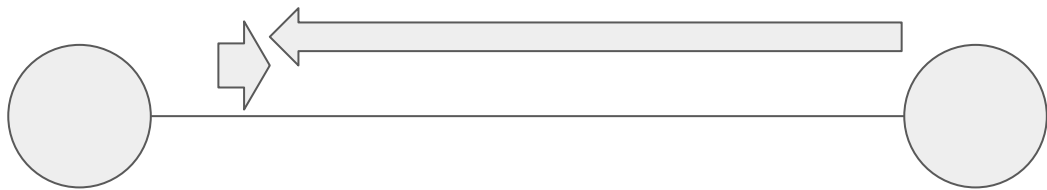


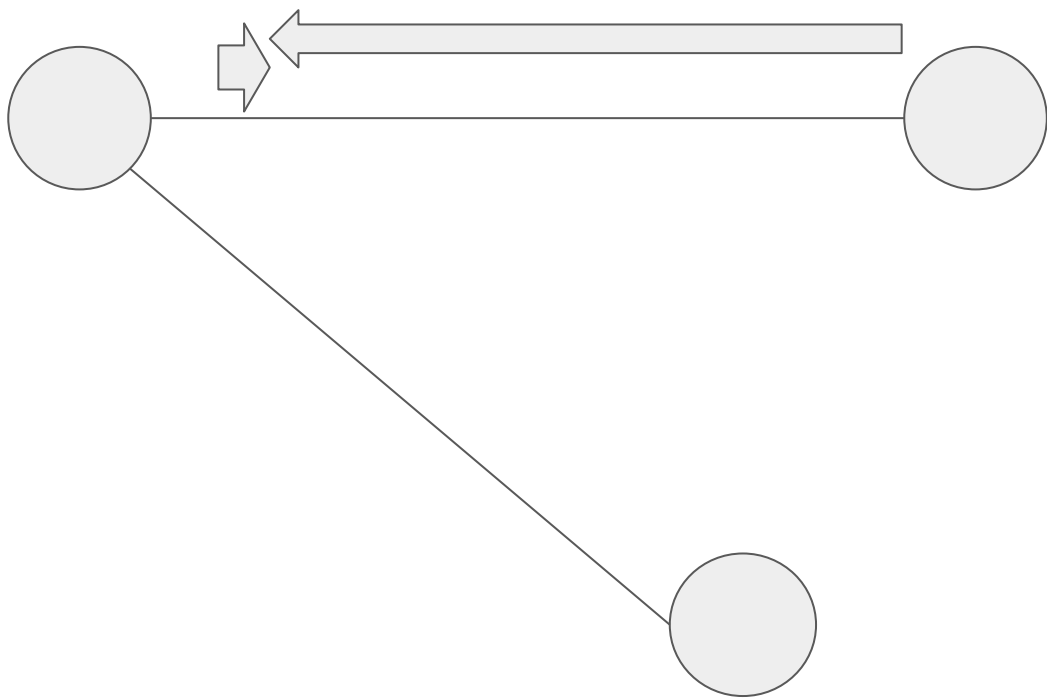


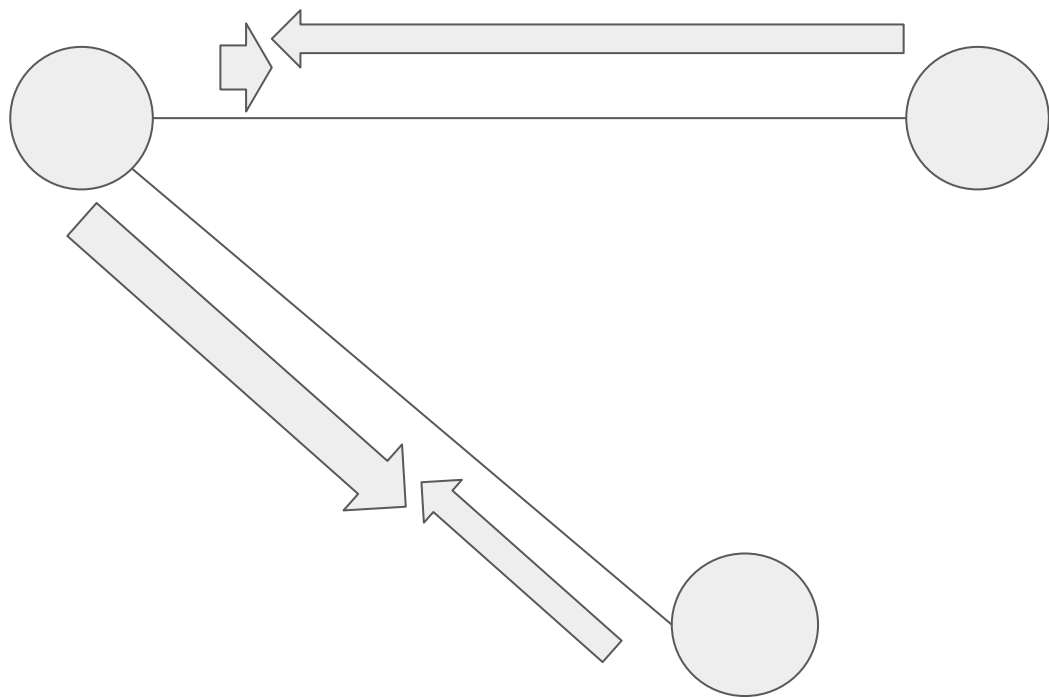


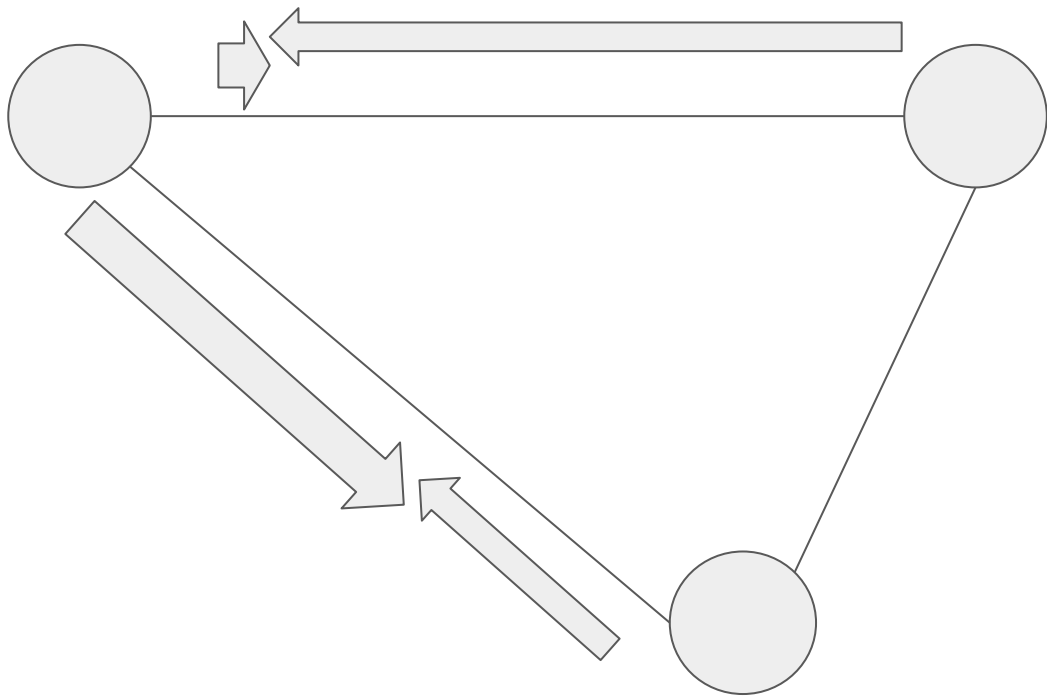


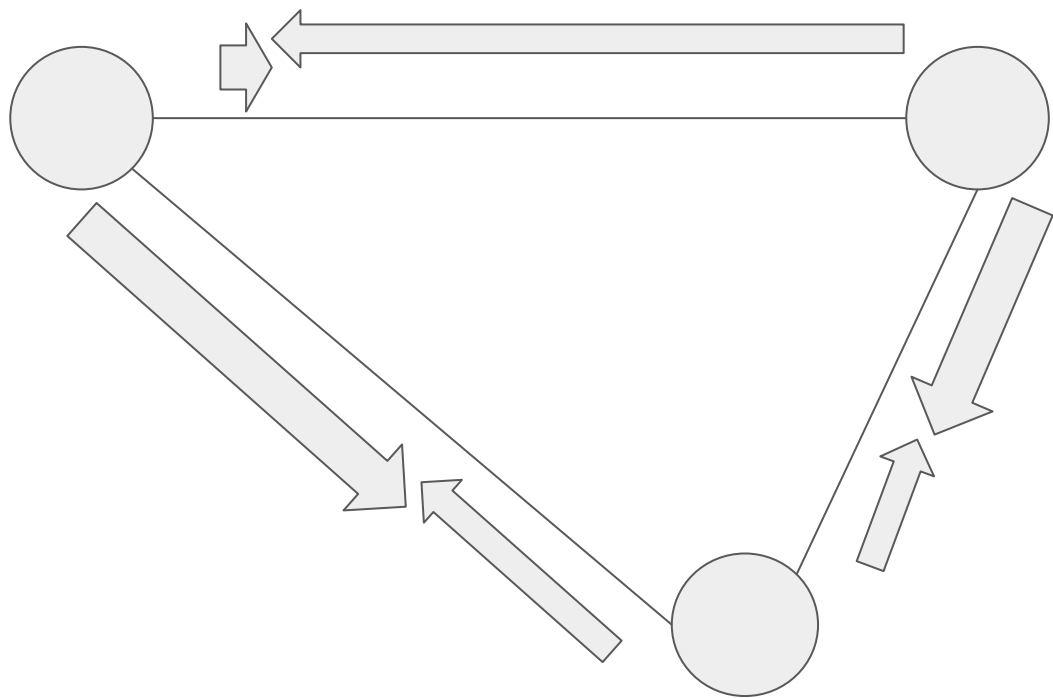
“depletion”

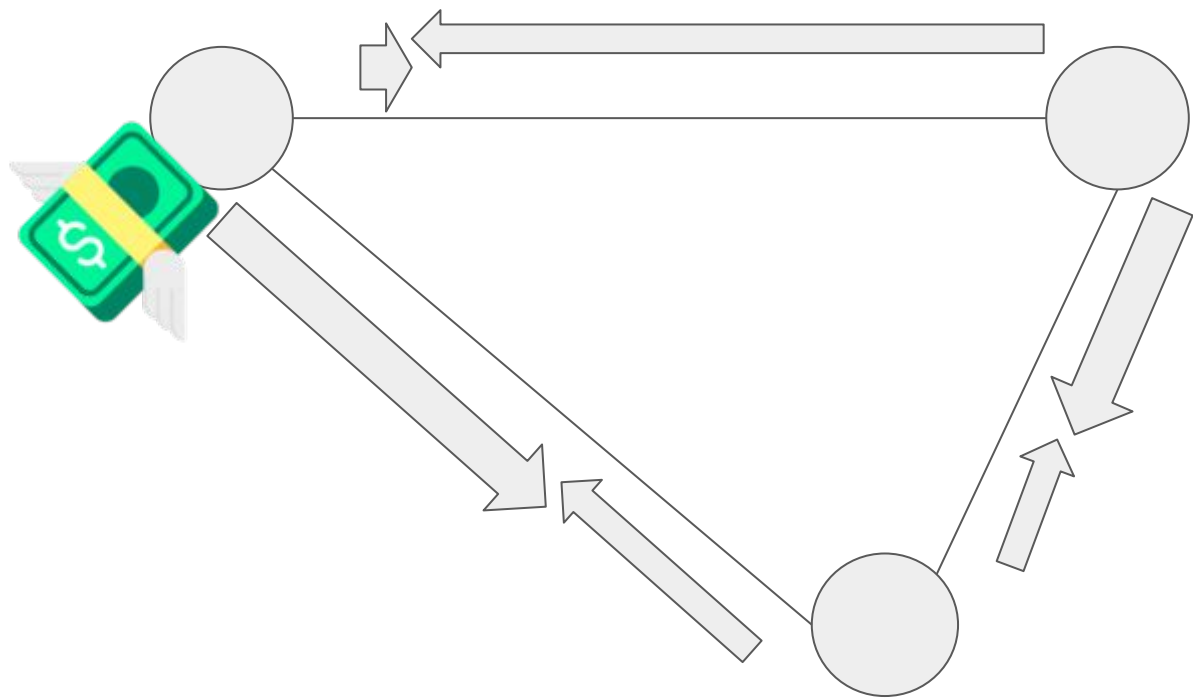


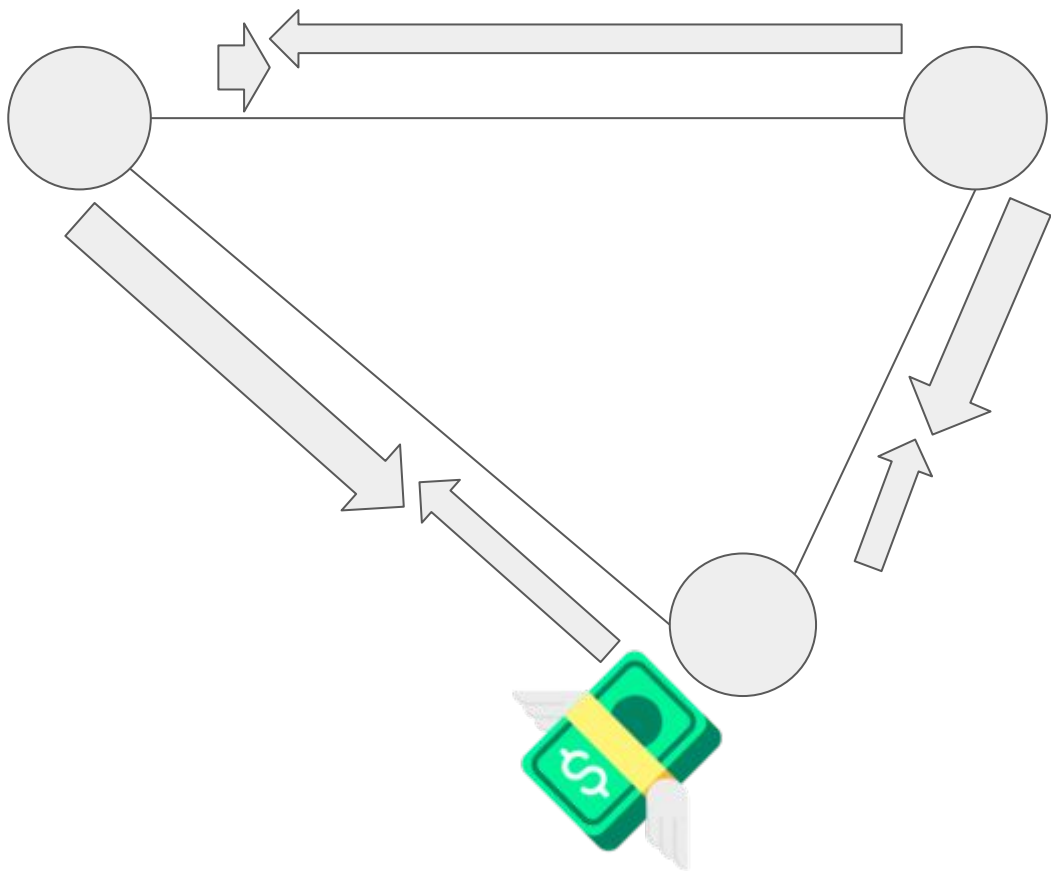


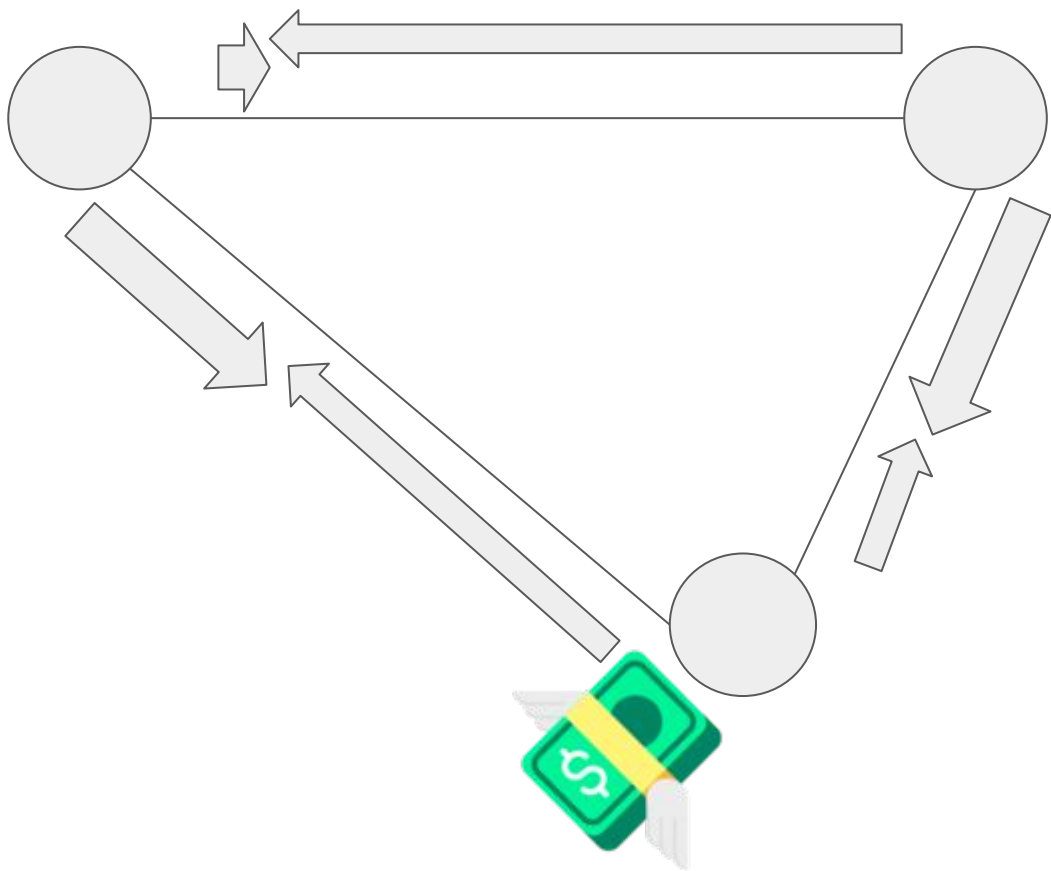


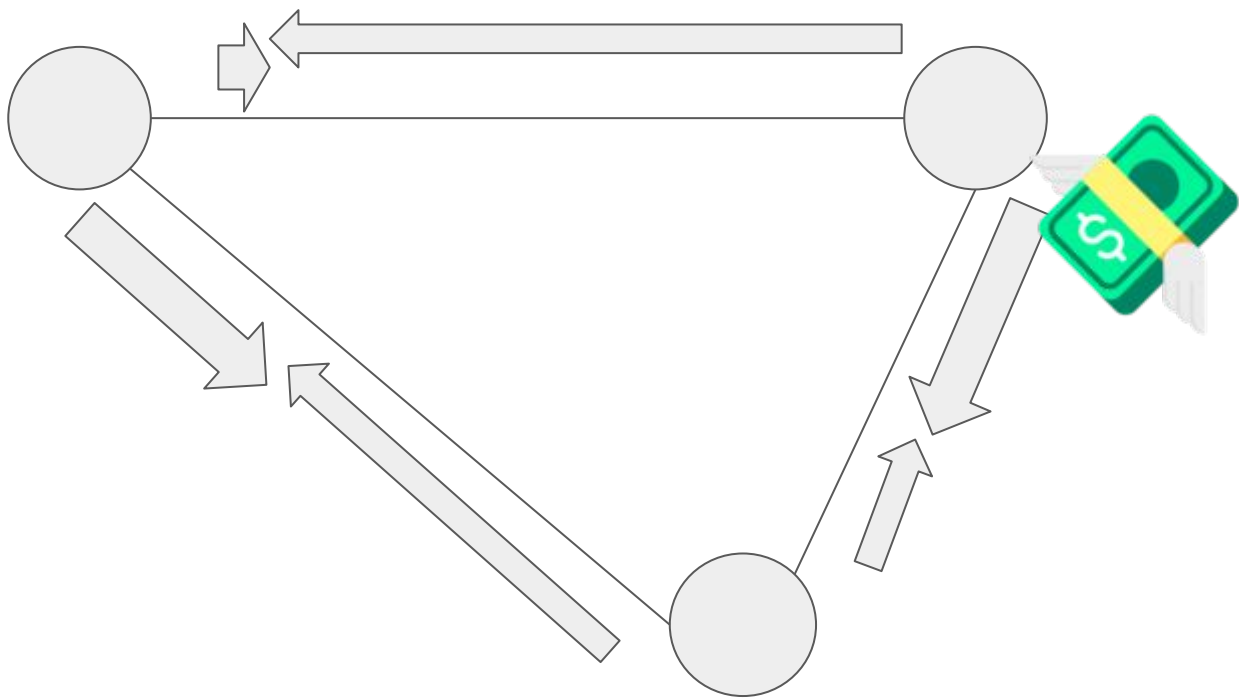


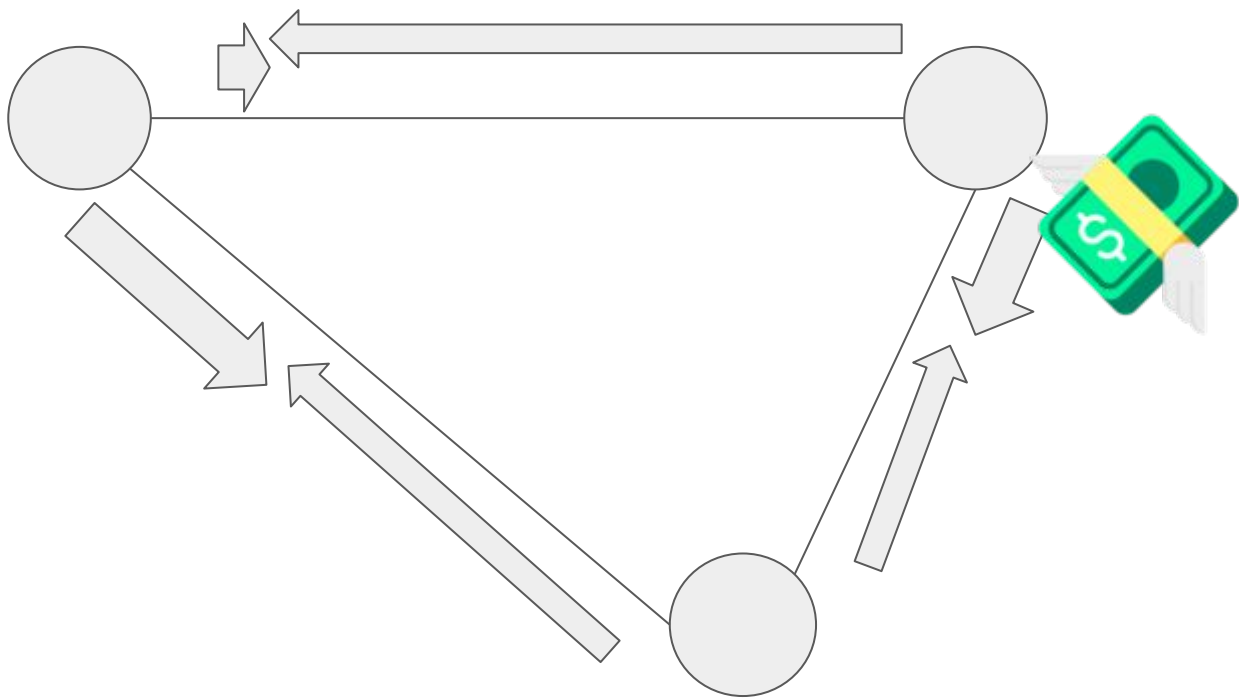


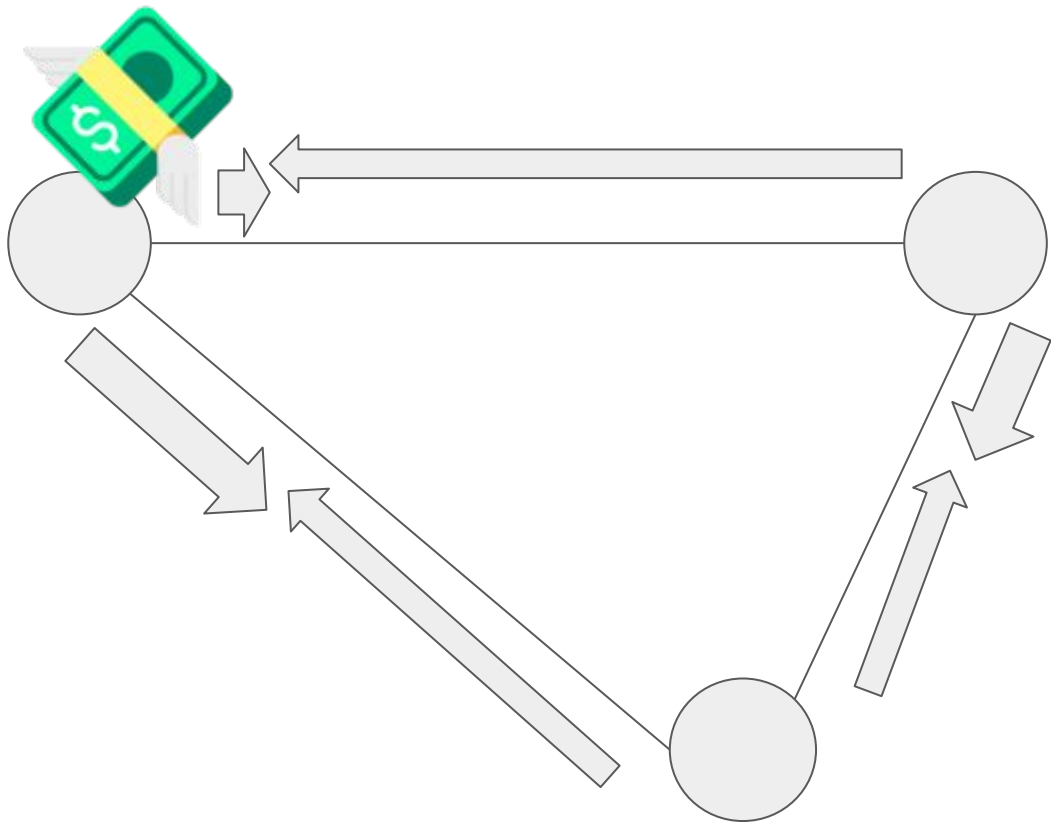


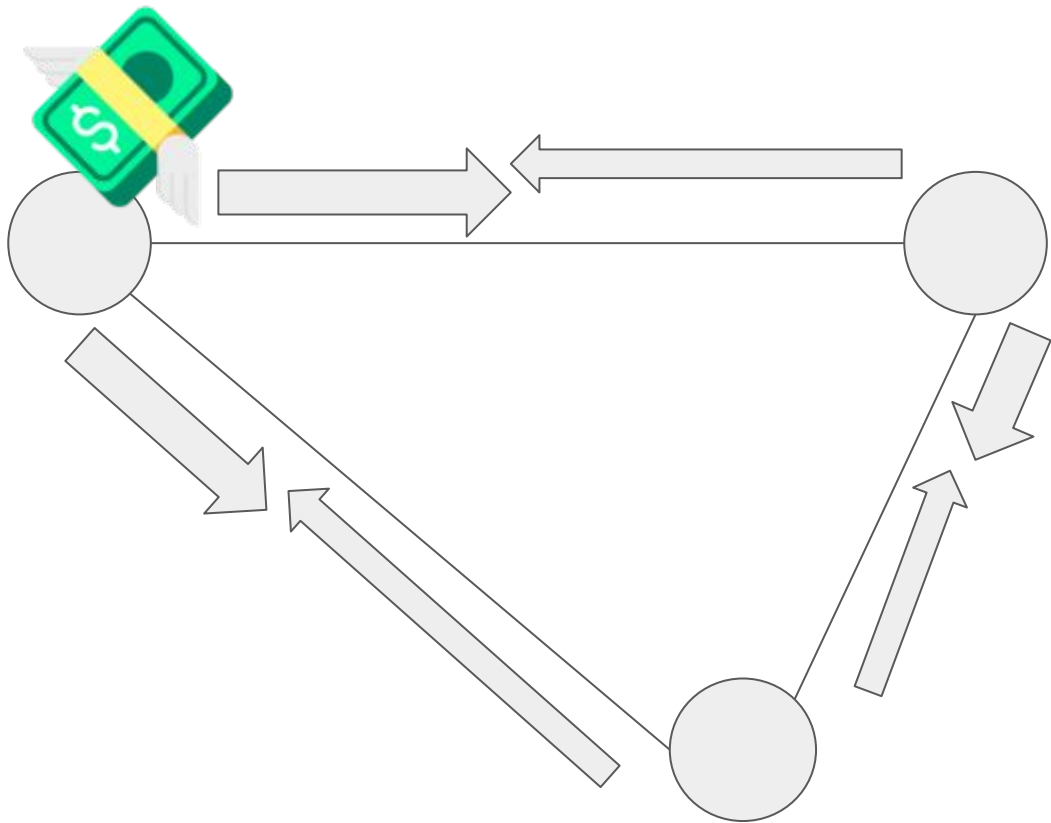


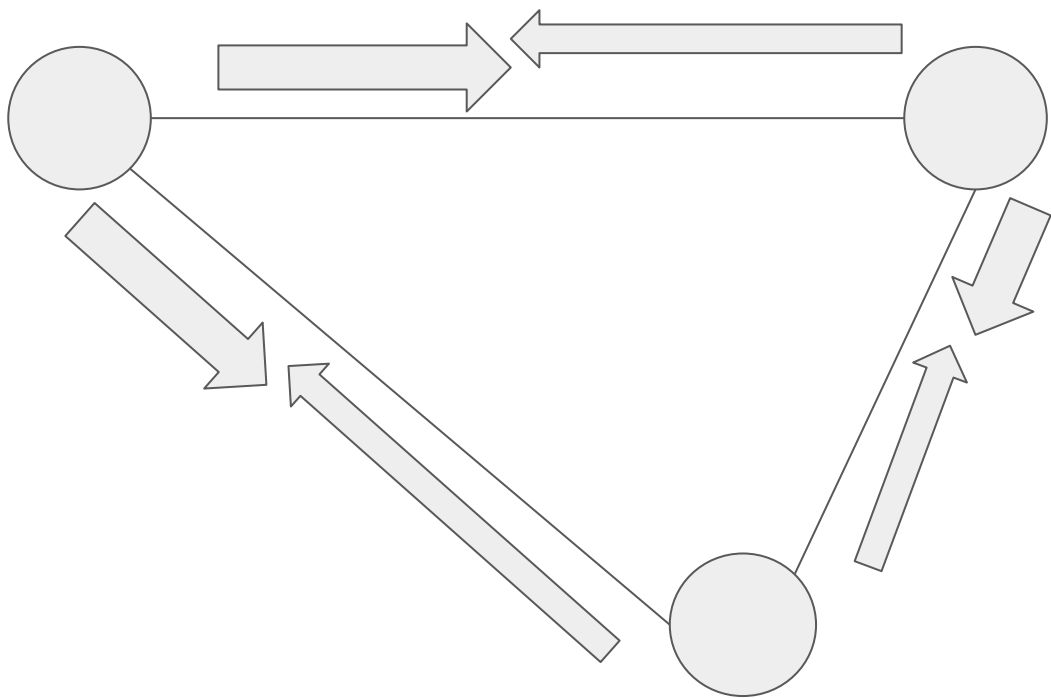


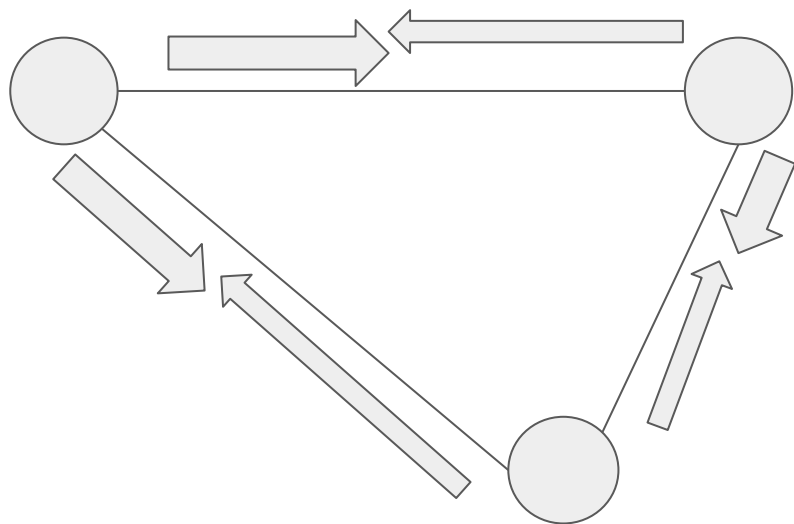


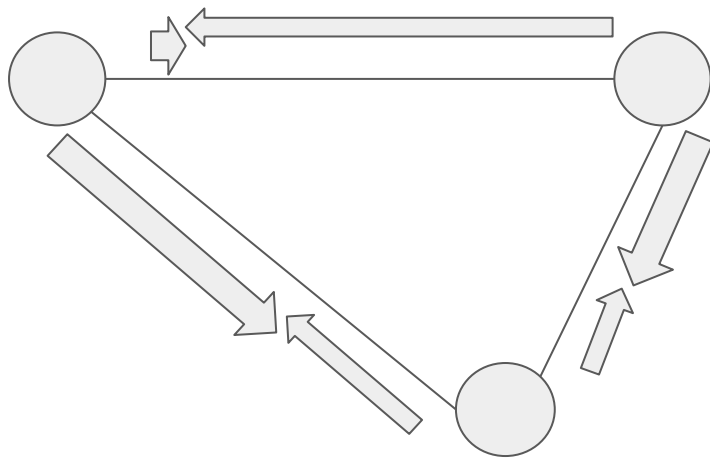
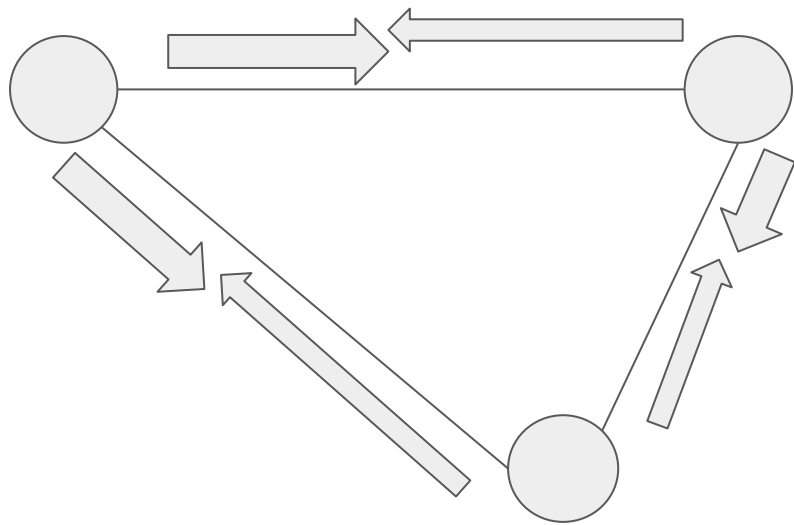


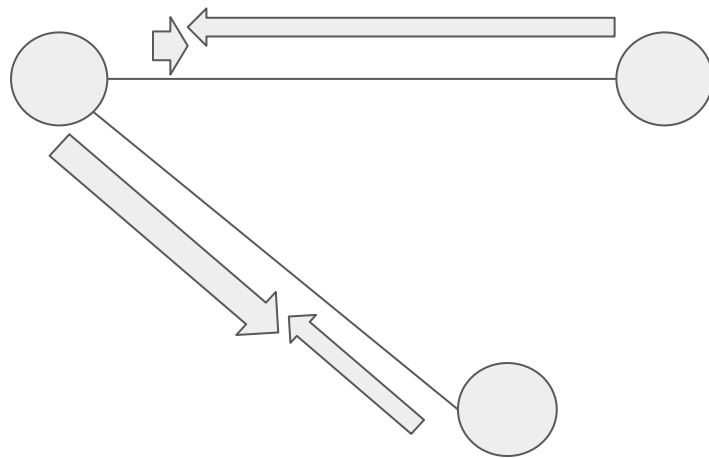
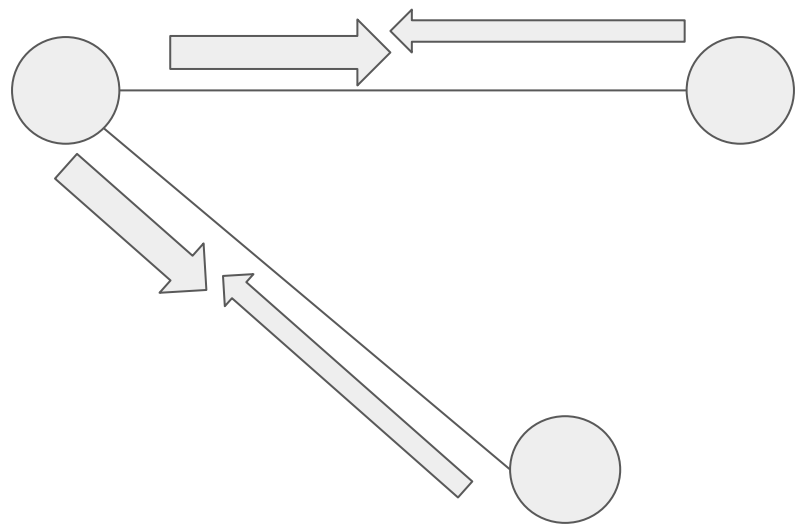


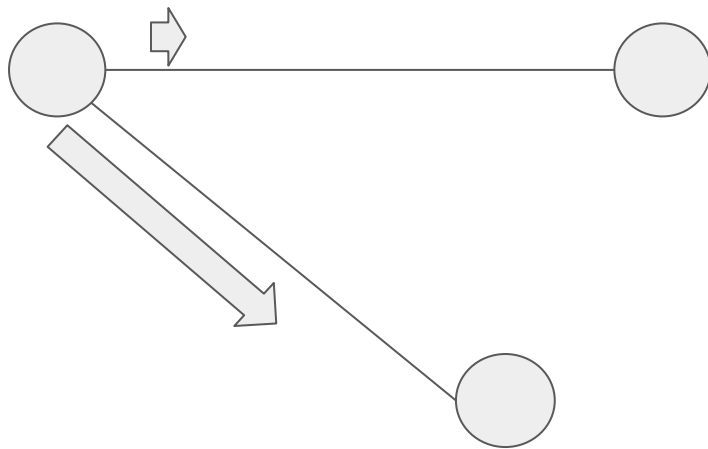
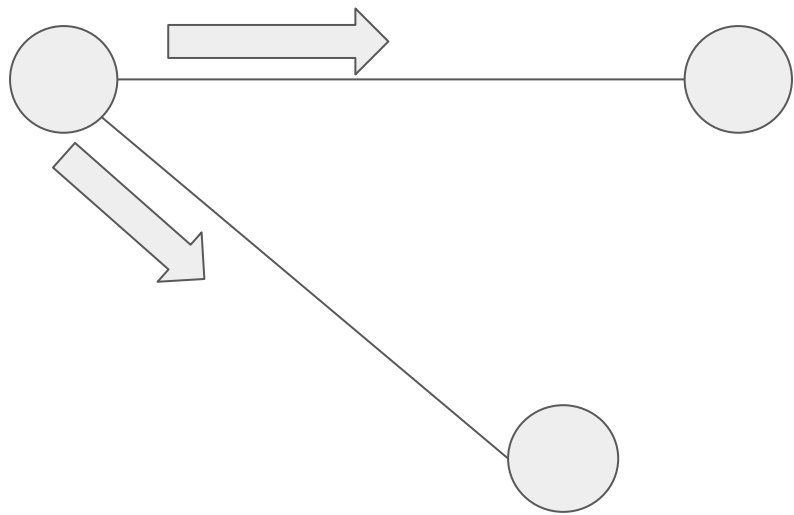


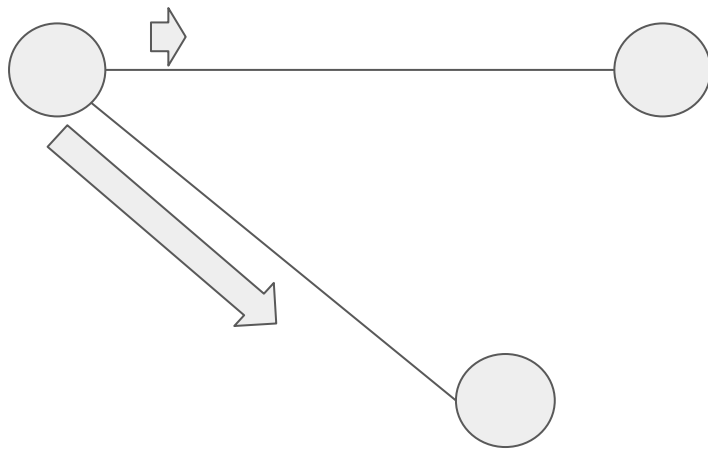
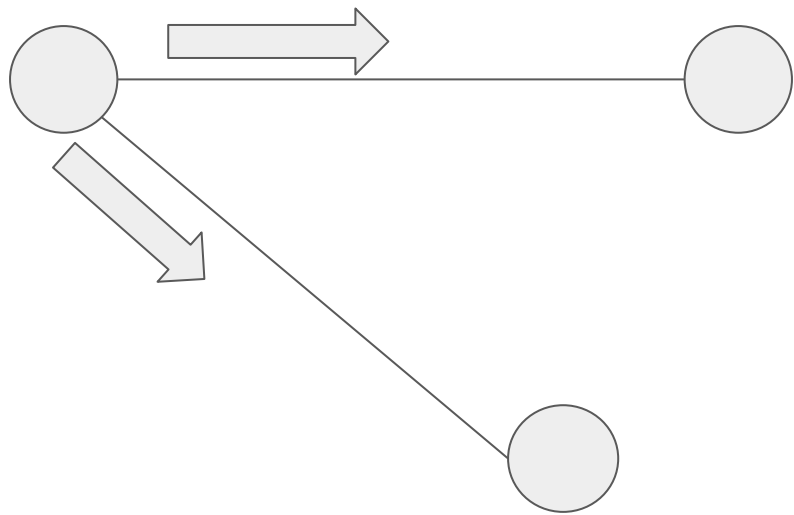




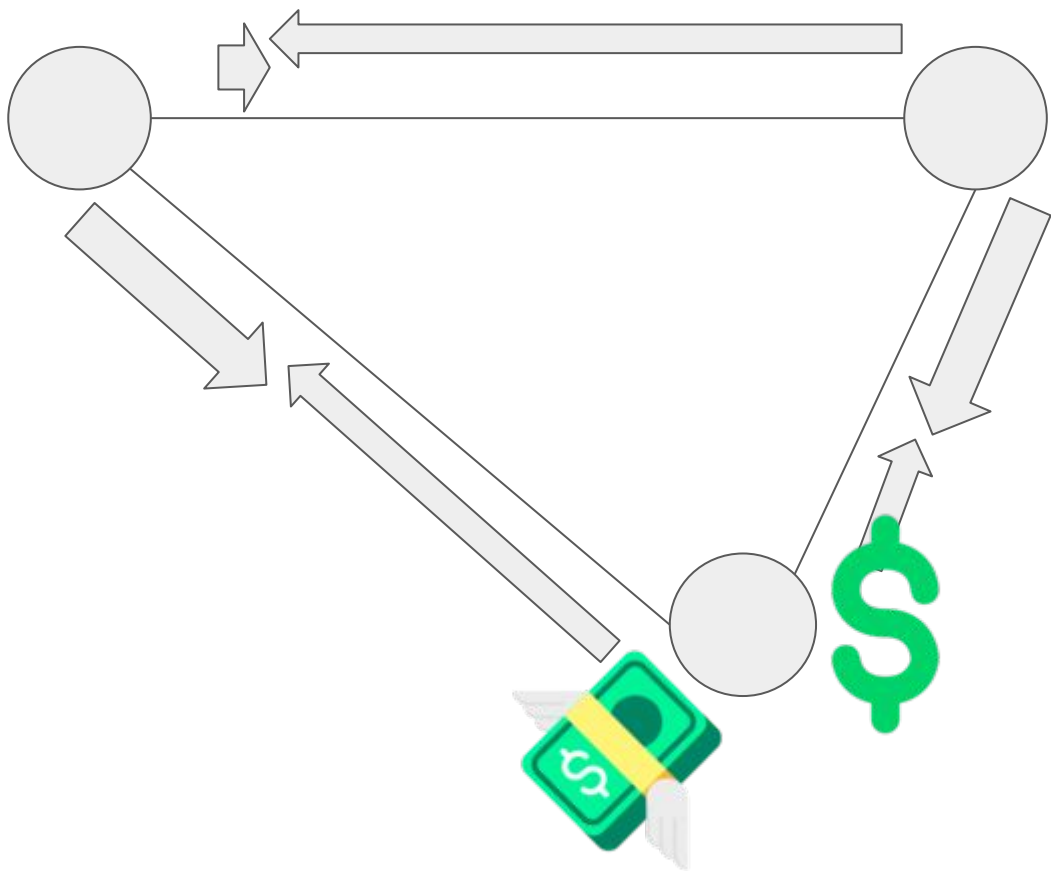


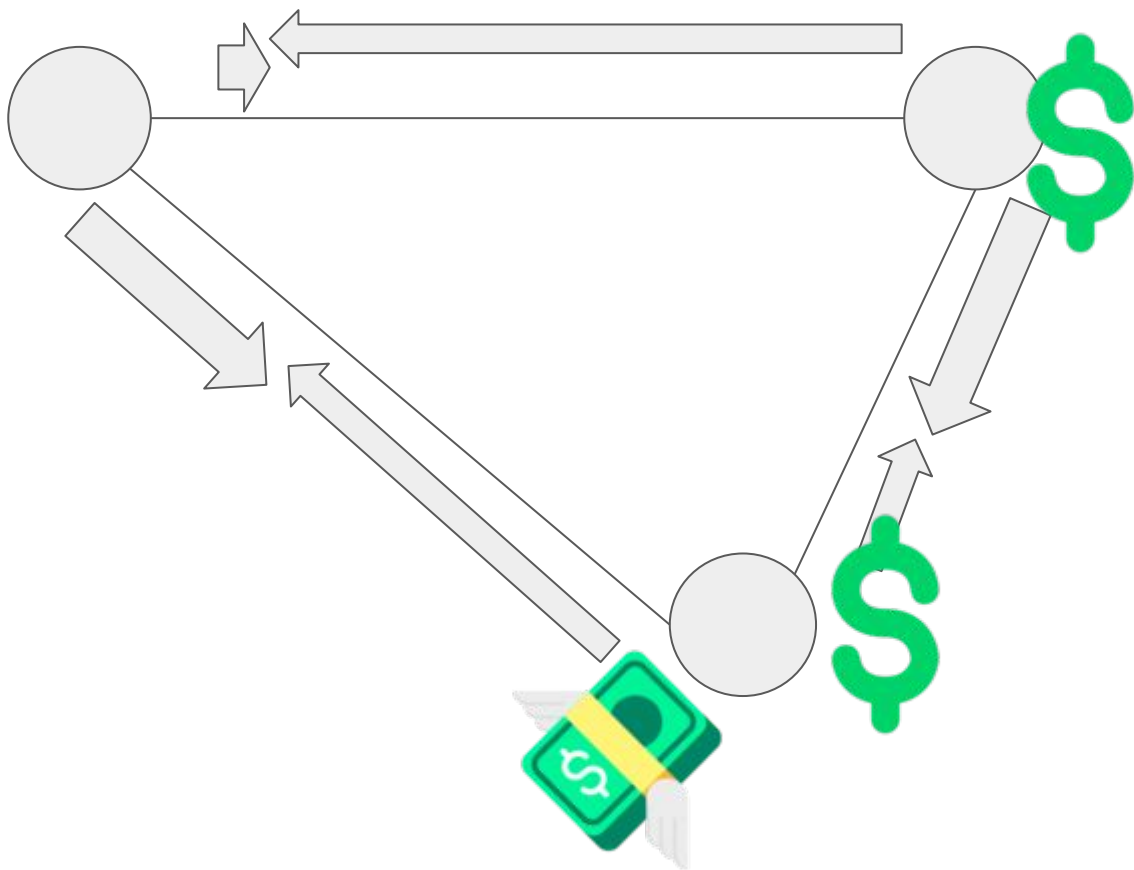




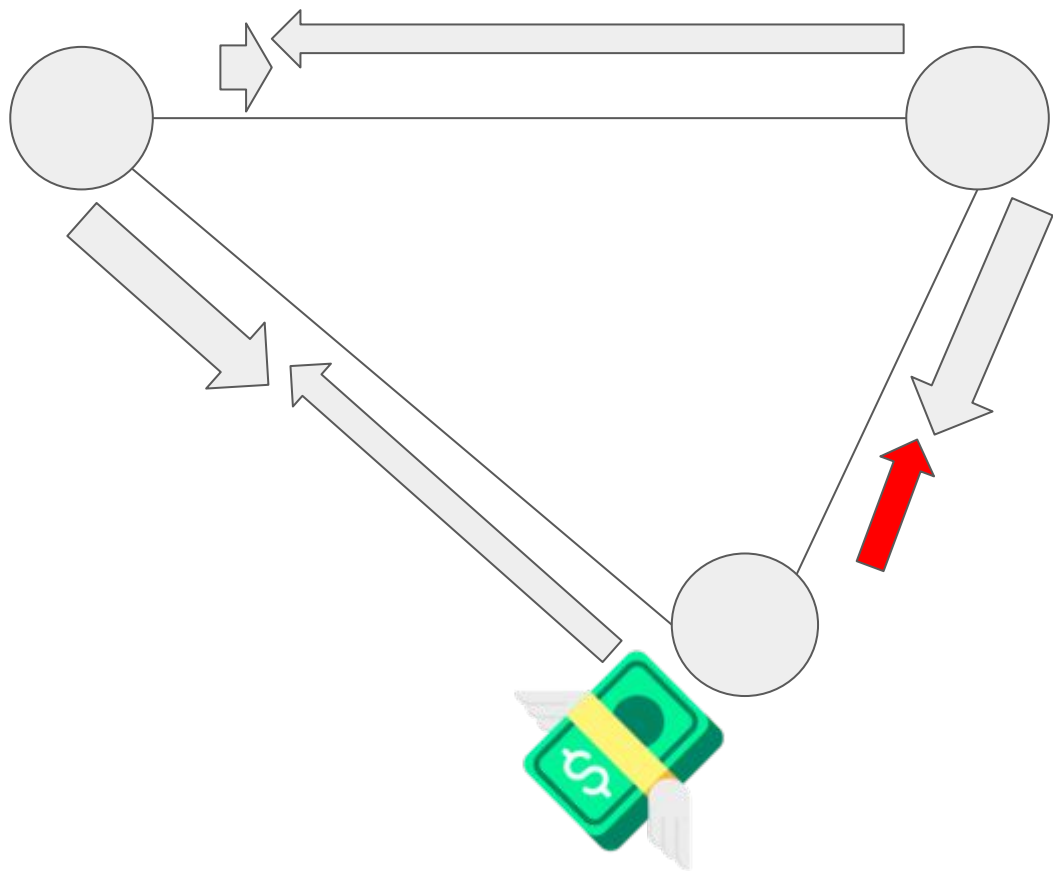


- Can be expensive
-



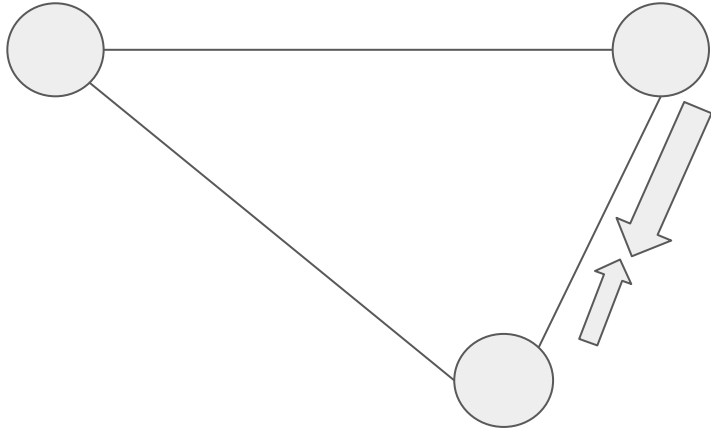


- Can be expensive
- May not find a route that succeeds
-

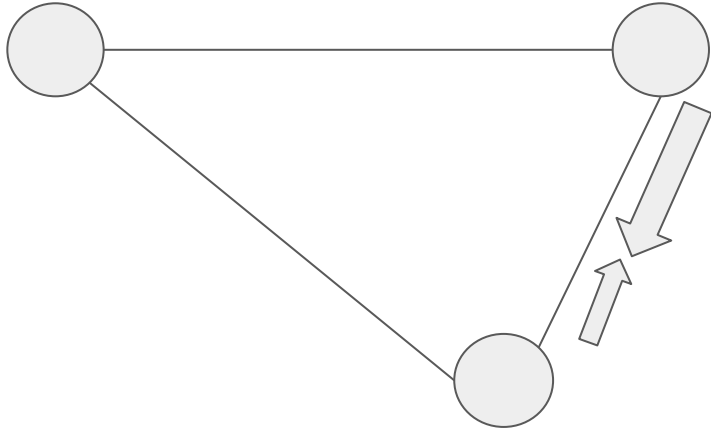


- Can be expensive
- May not find a route that succeeds
- Unbalances your peer's channels (maybe)

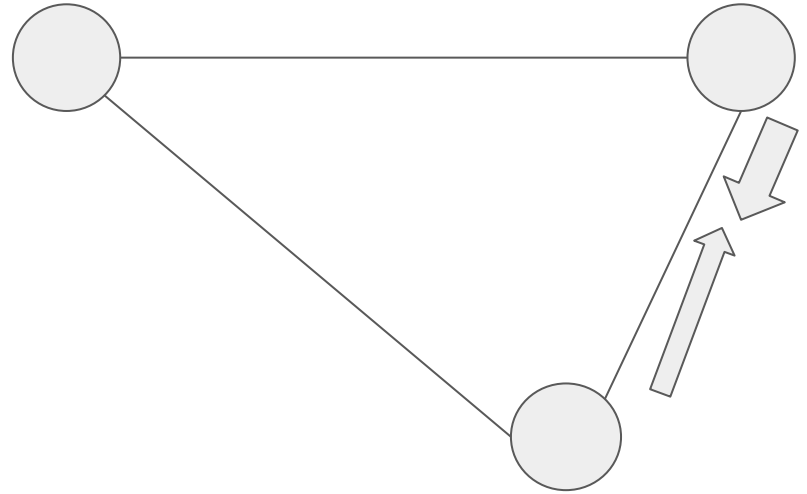
BEFORE



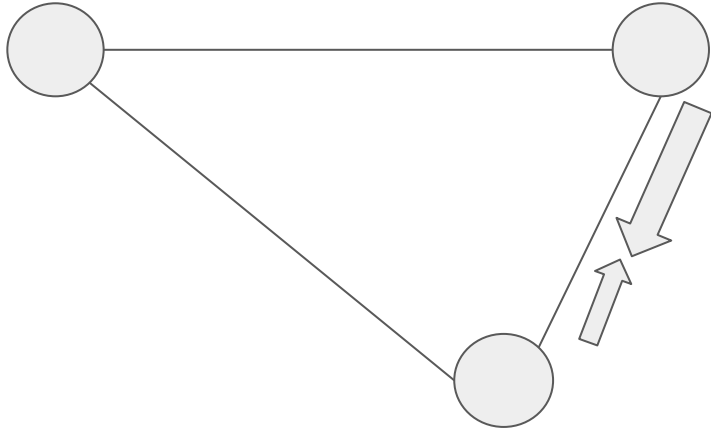
BEFORE



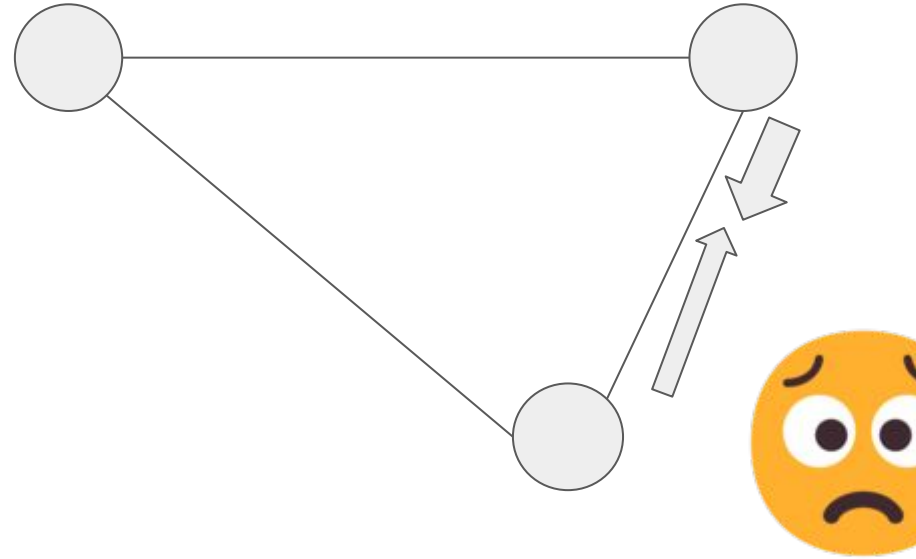
AFTER



BEFORE



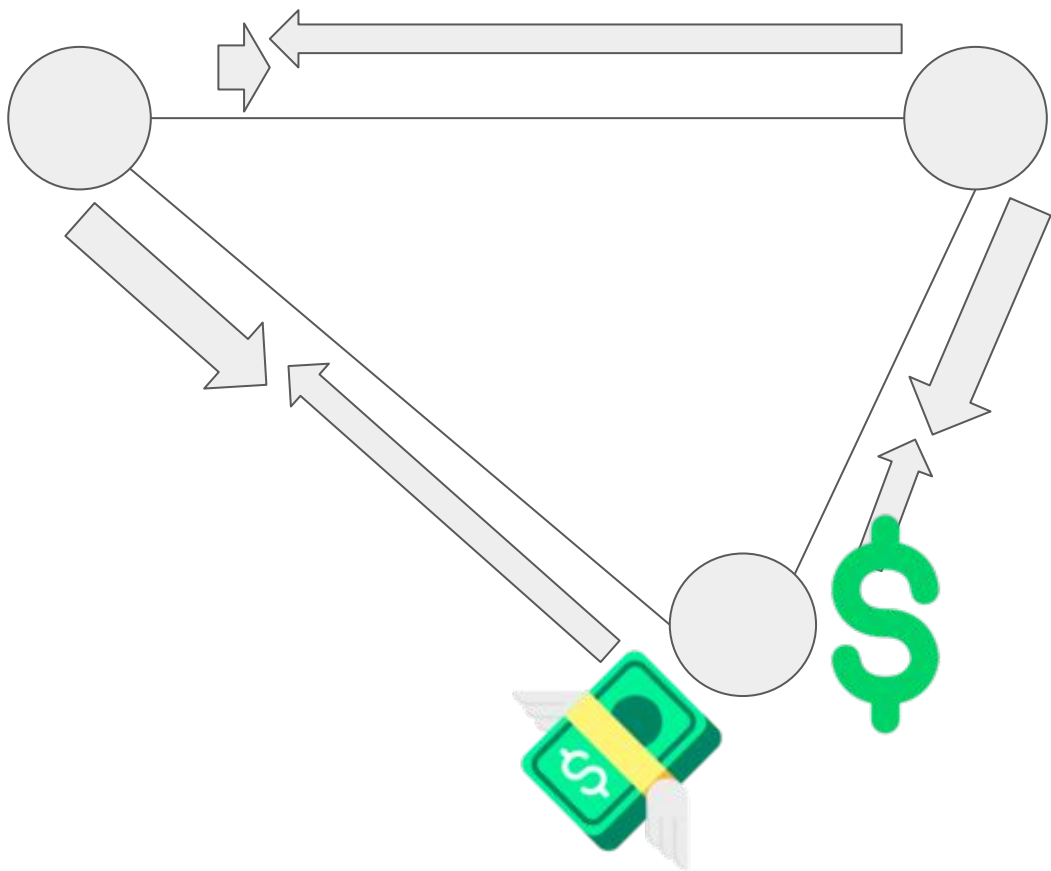
AFTER

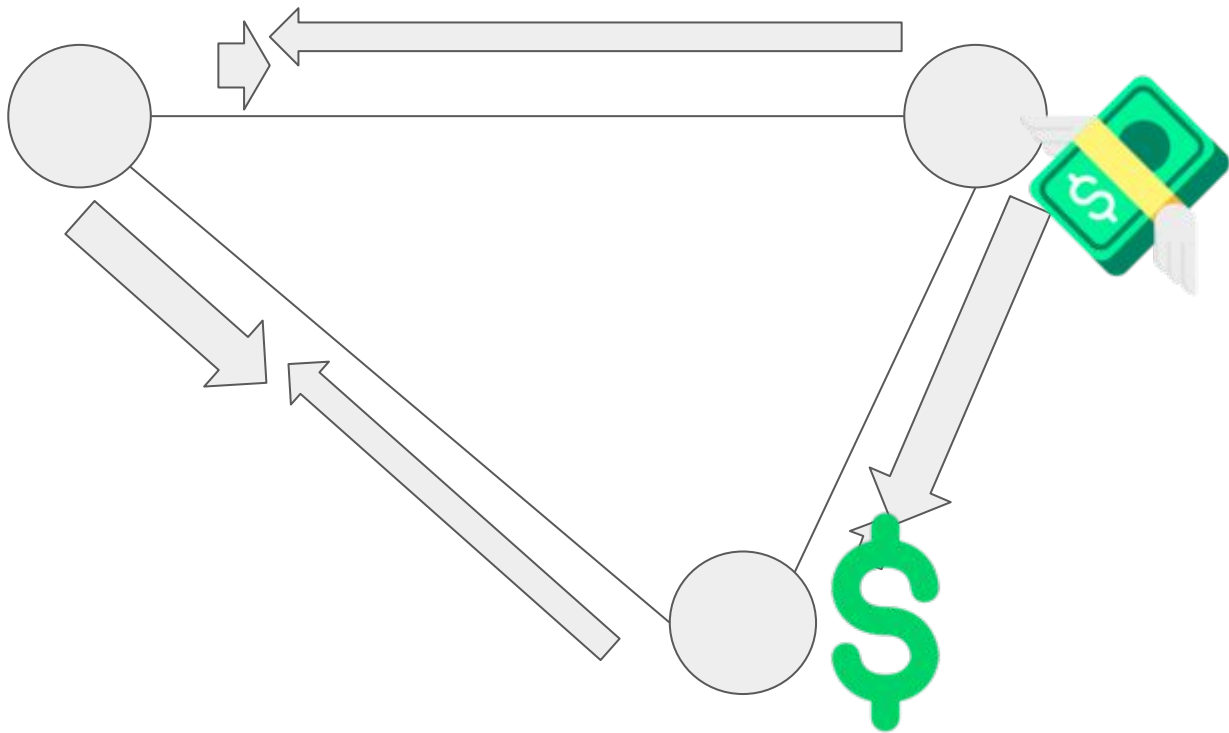


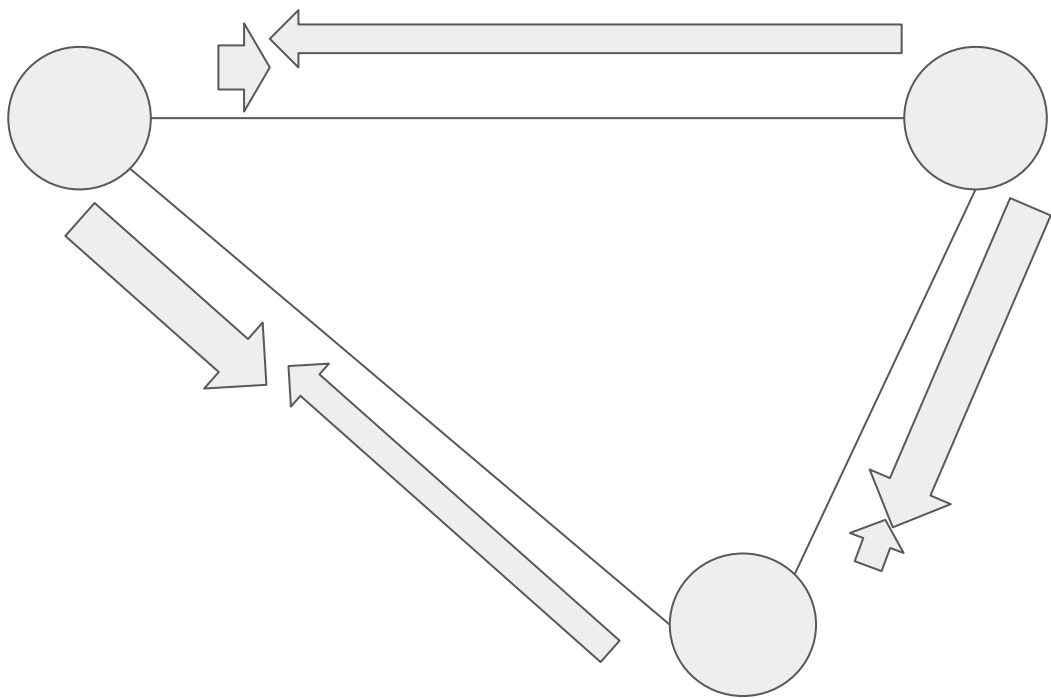
Can we do better?

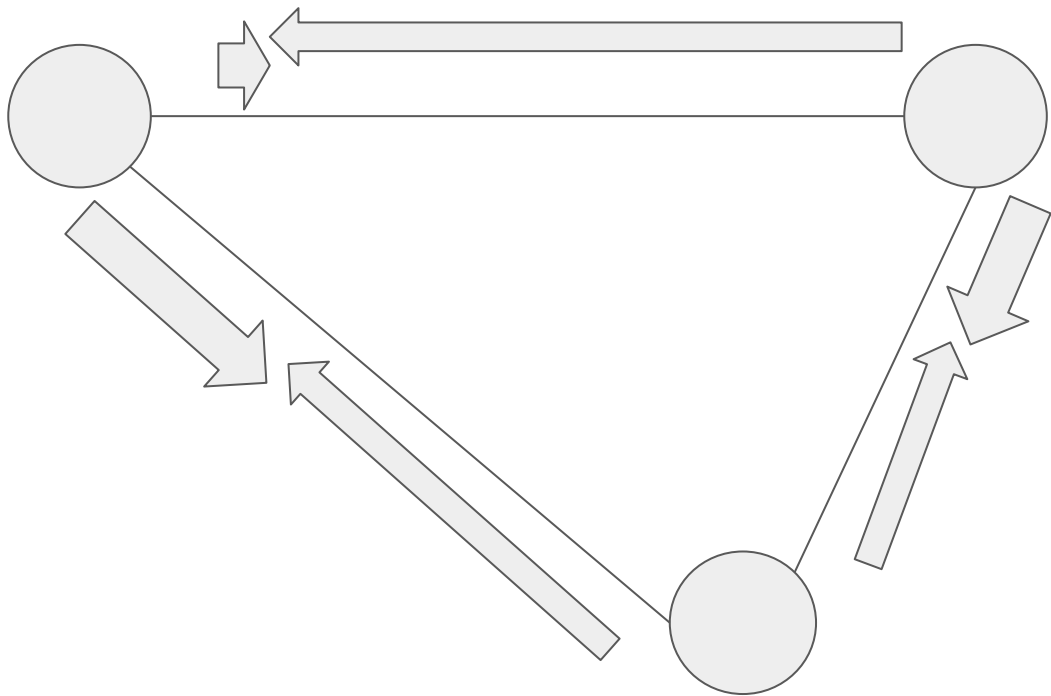
Goals of rebalancing?

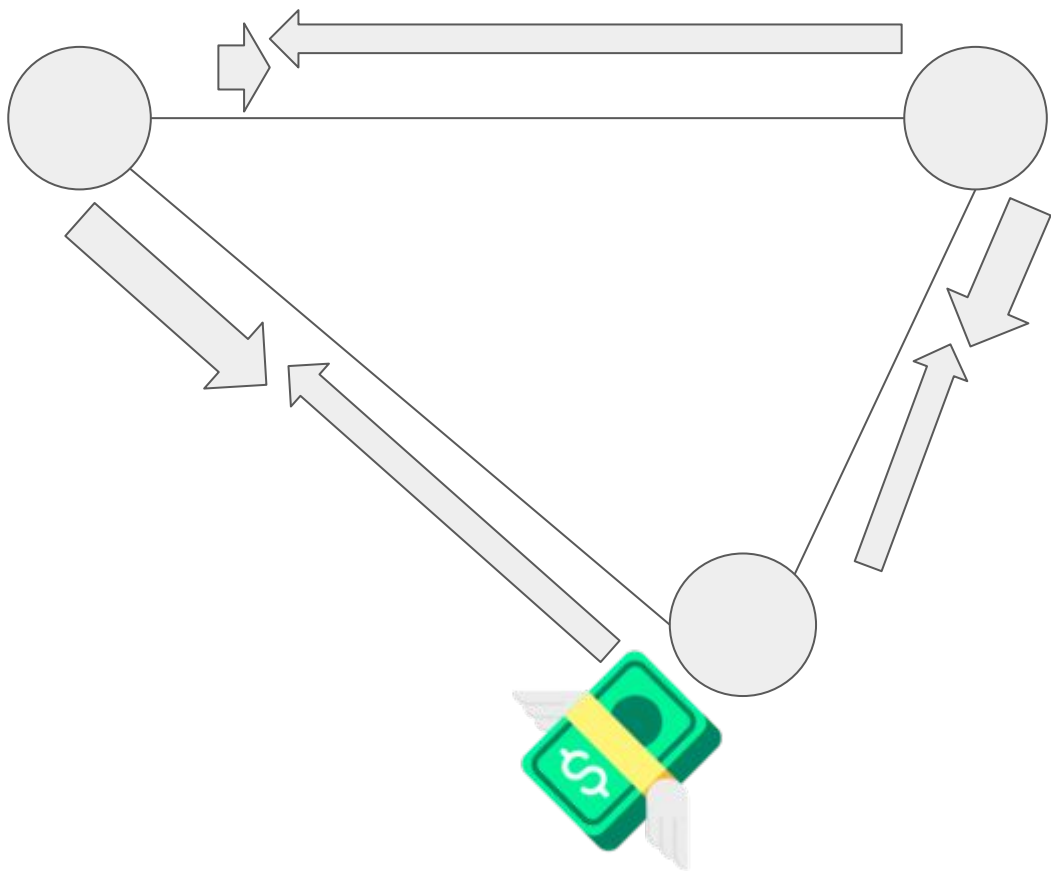
Re-use your liquidity

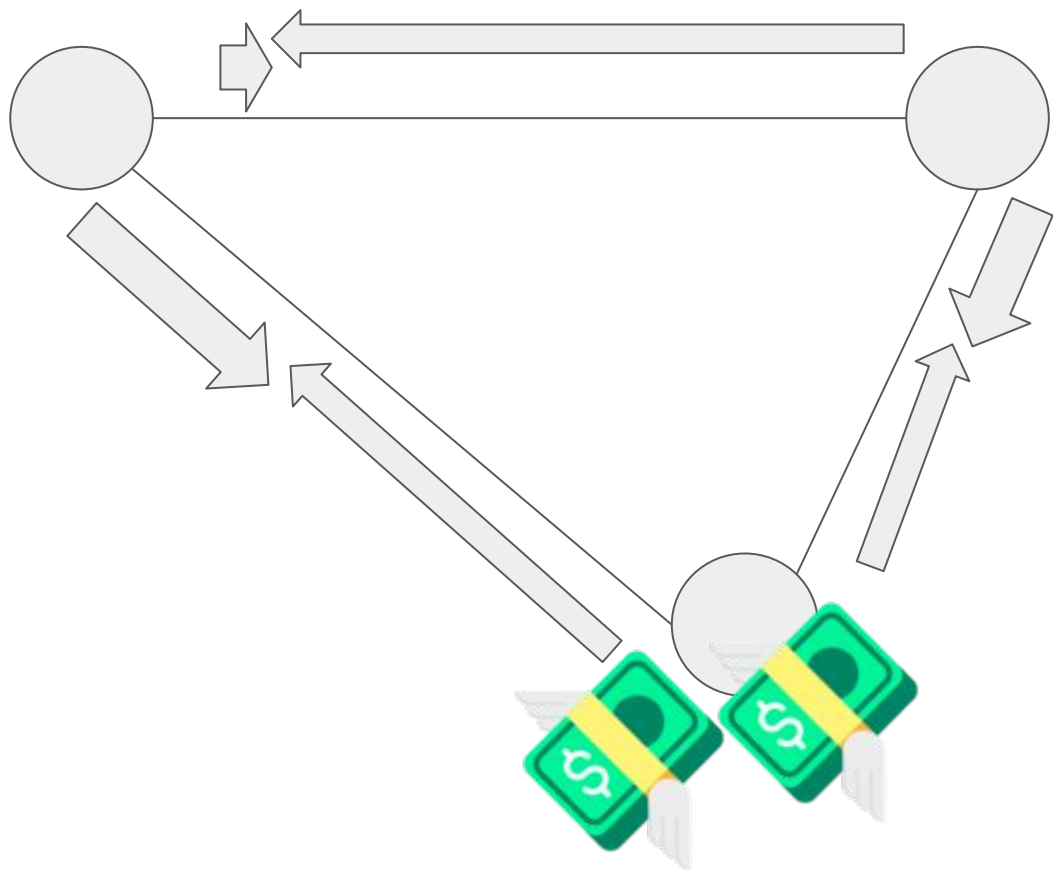


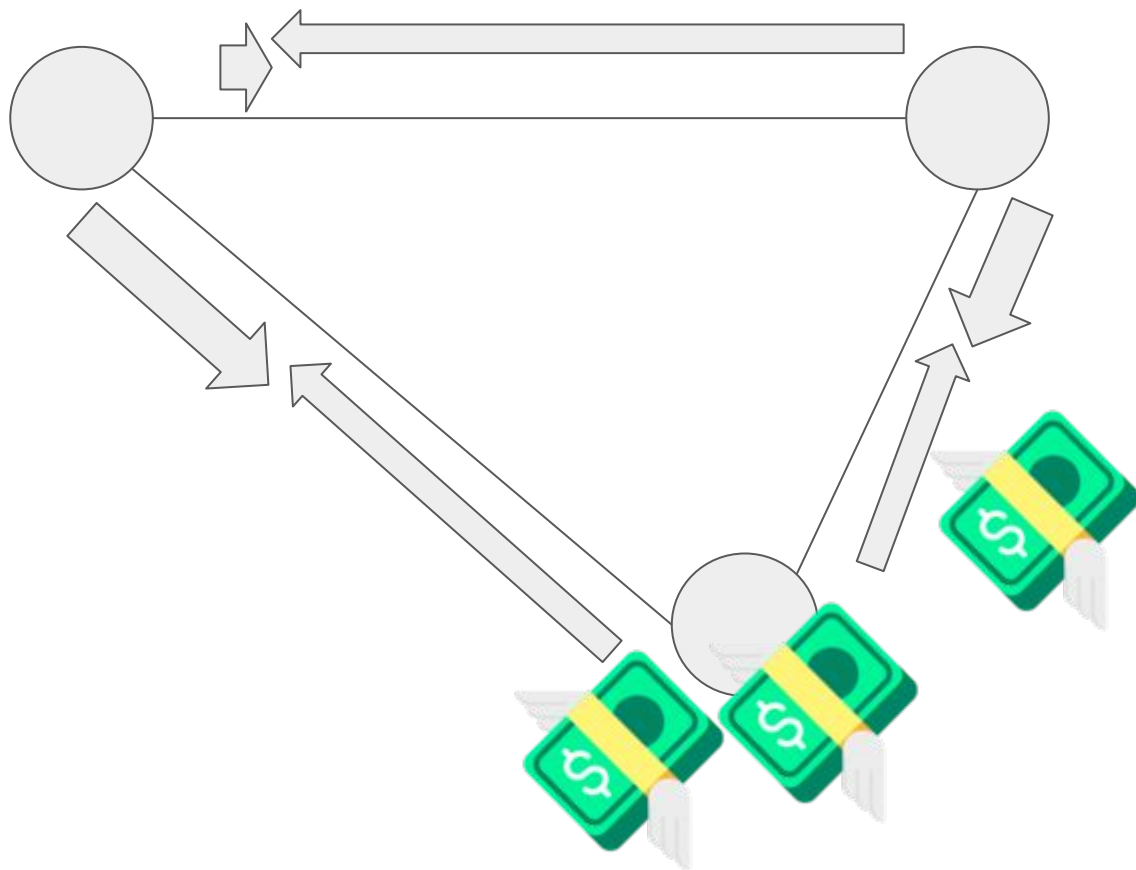


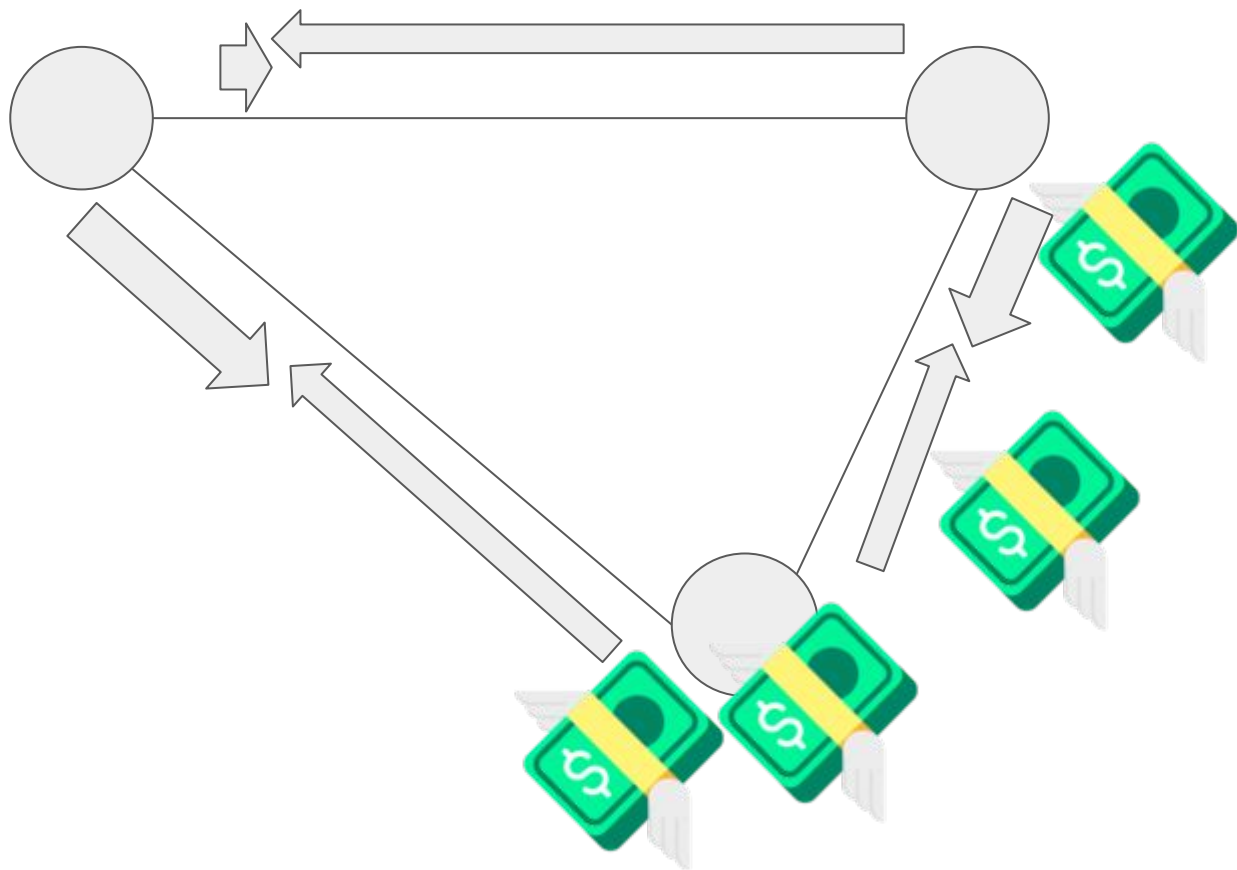


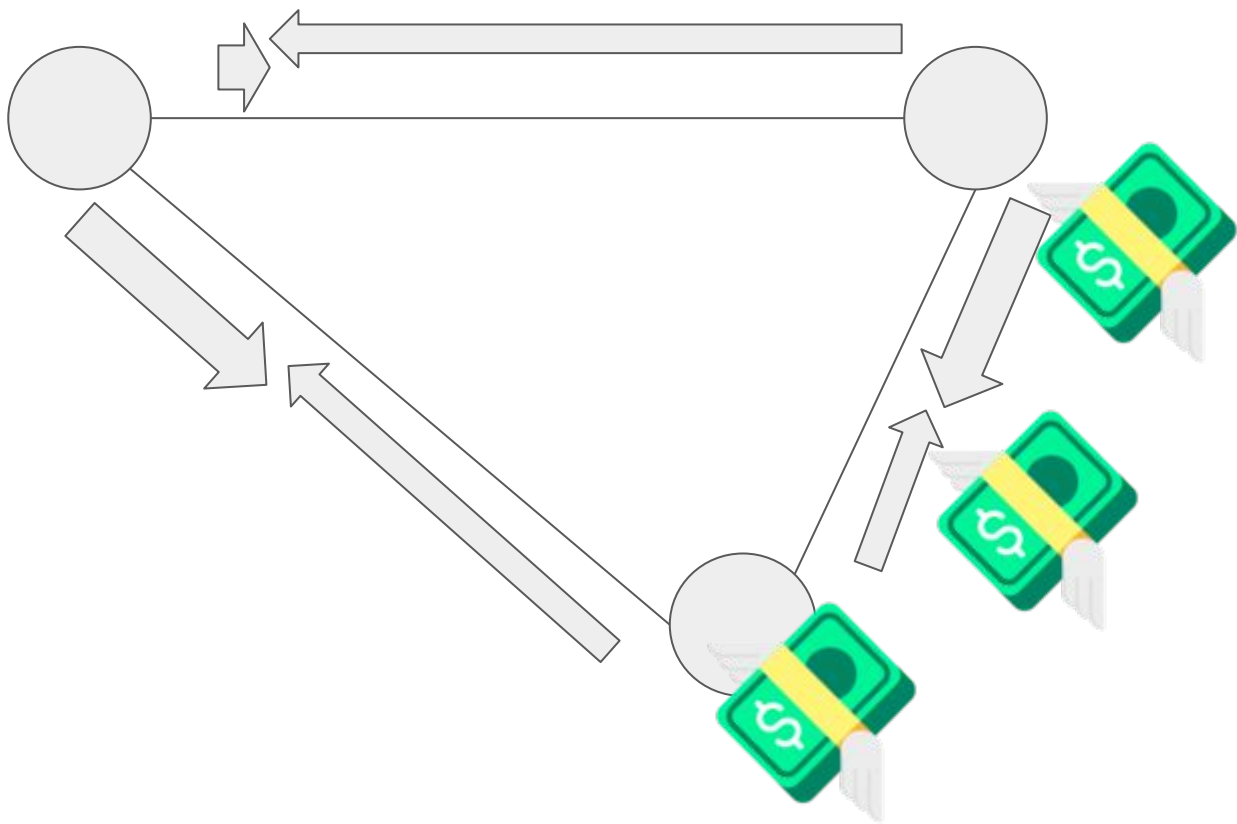


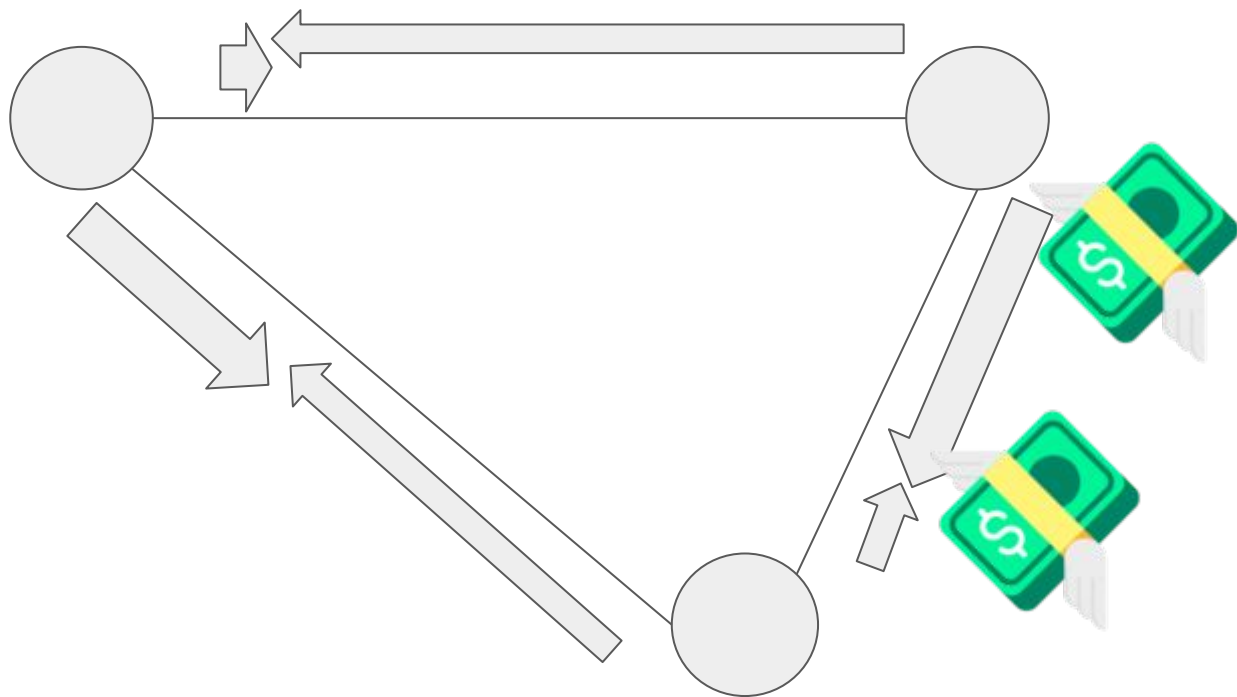


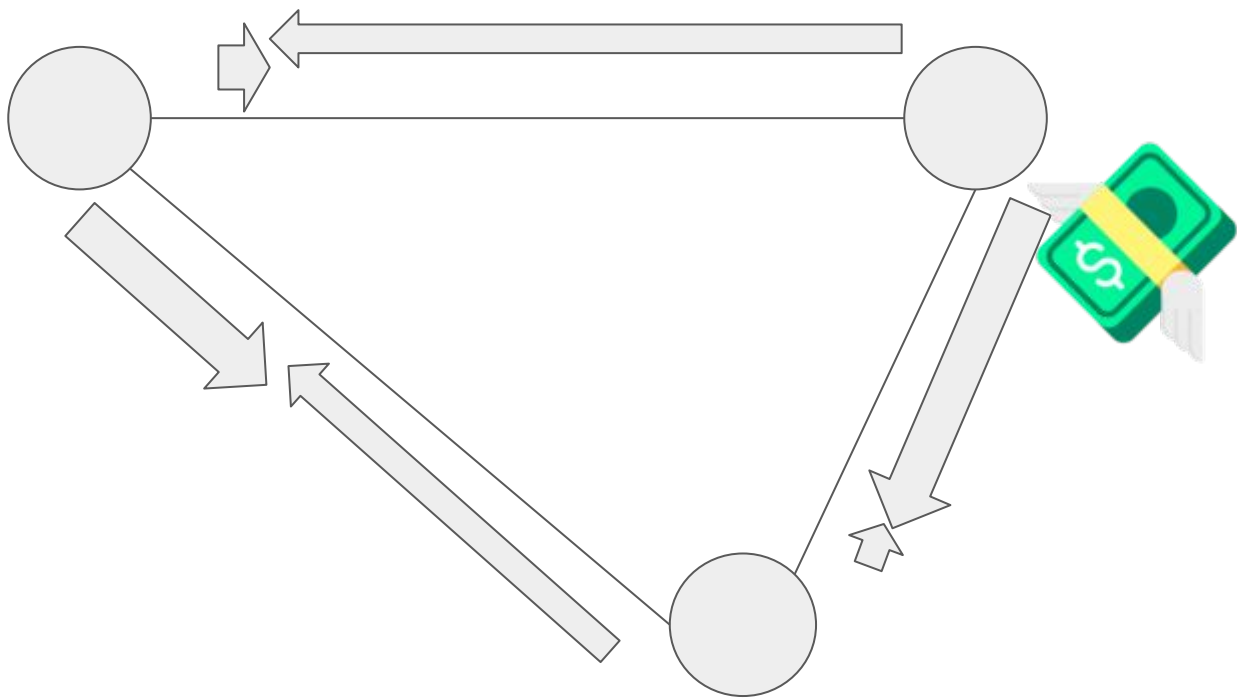


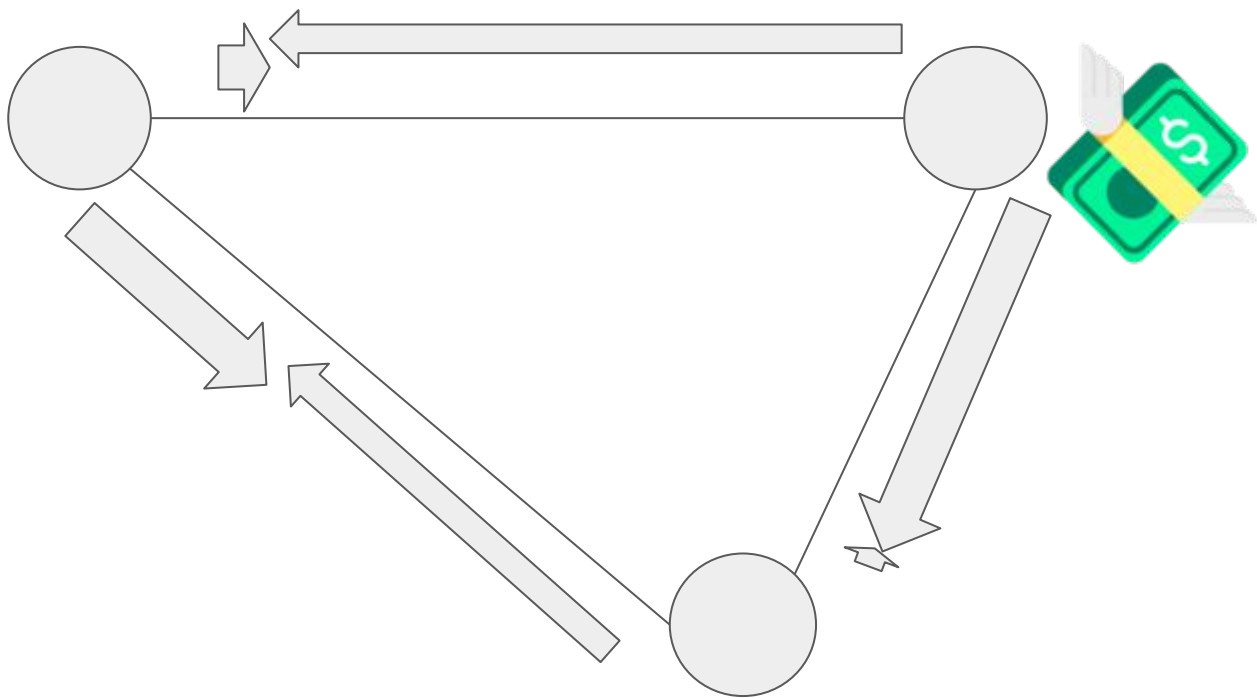


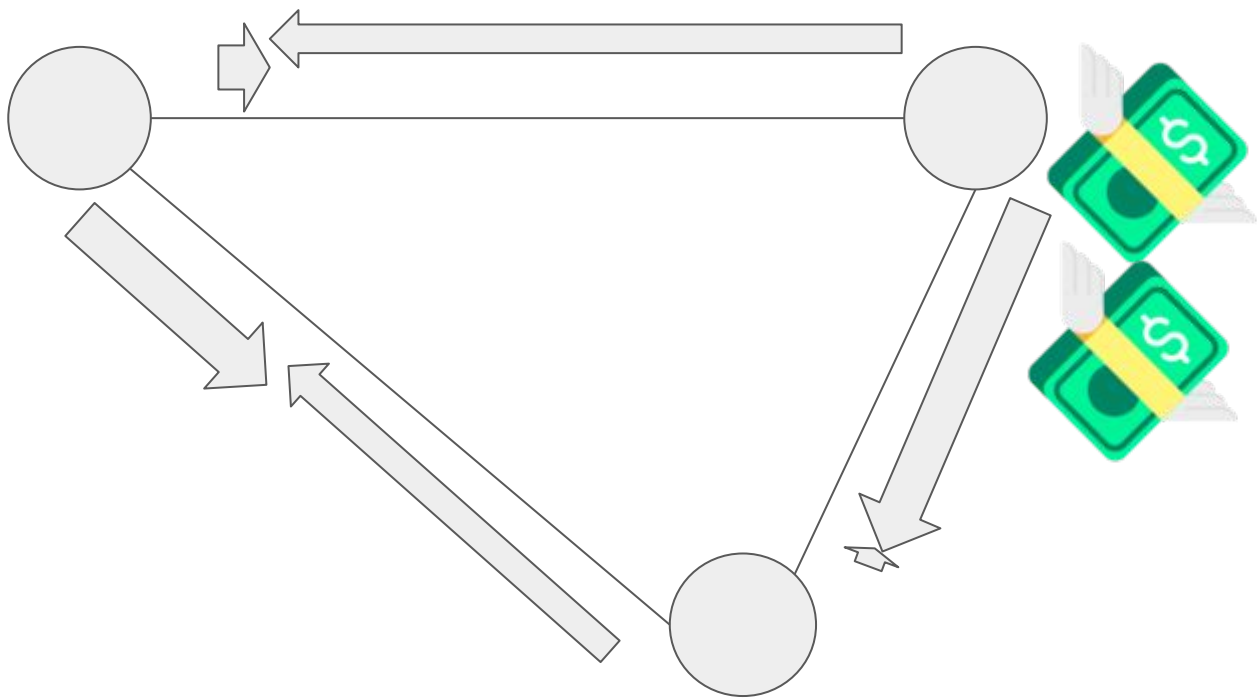


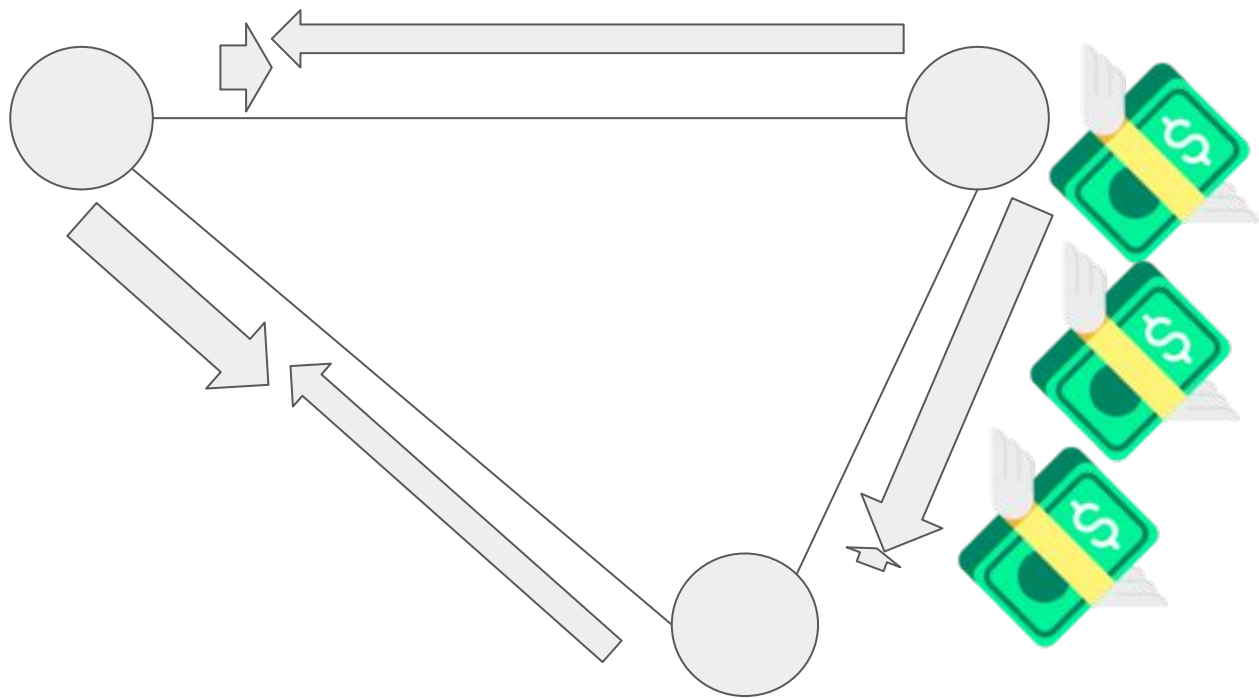


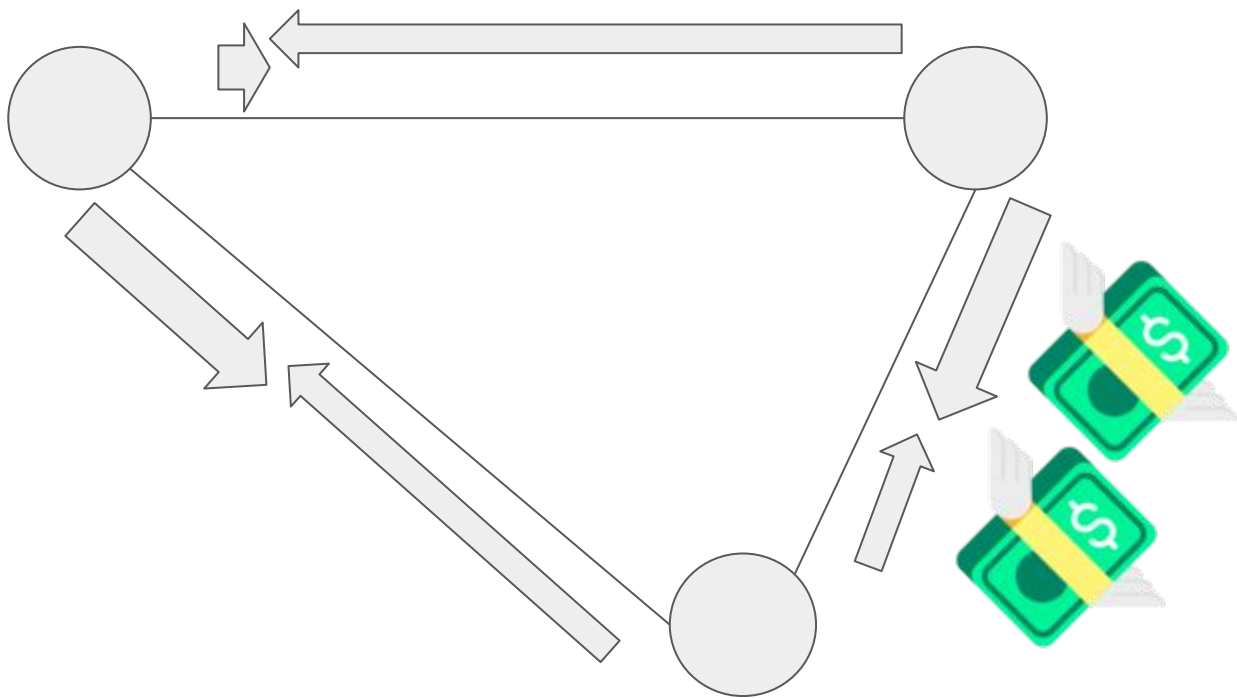


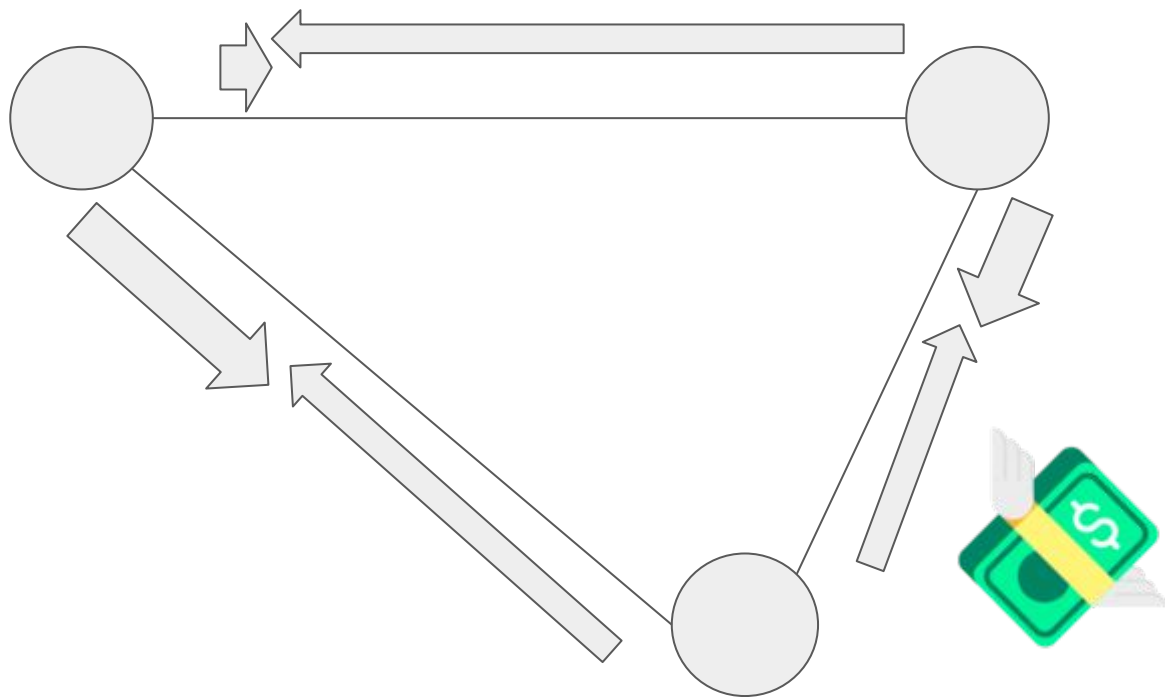


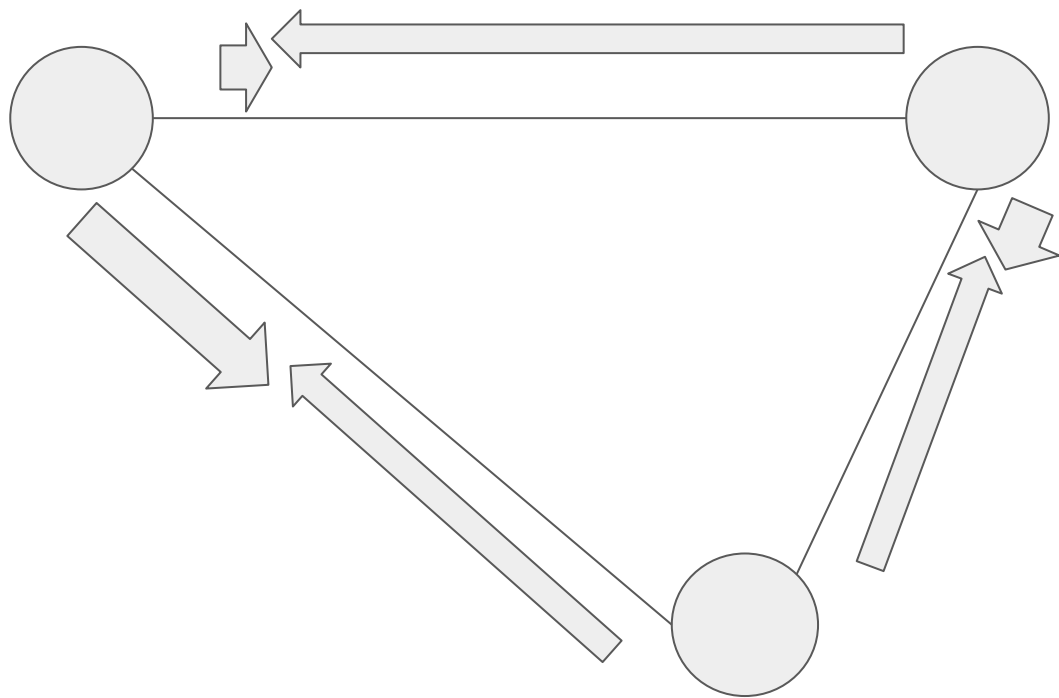


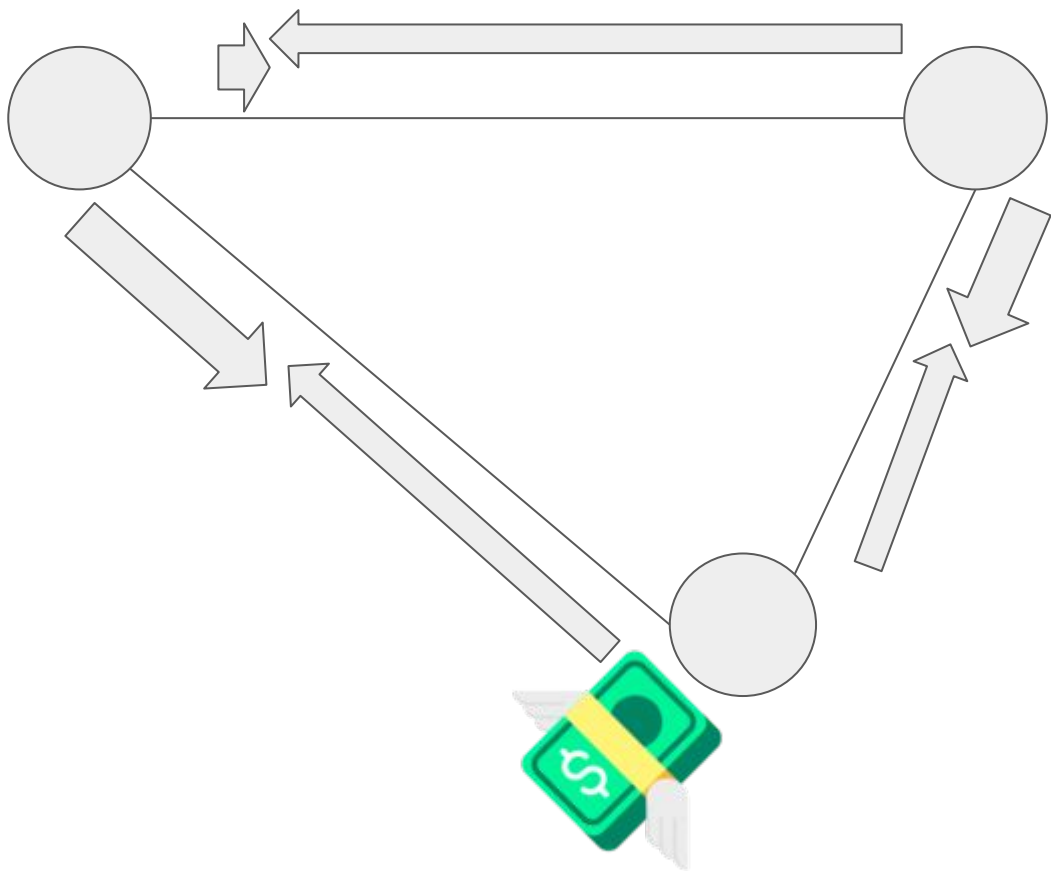


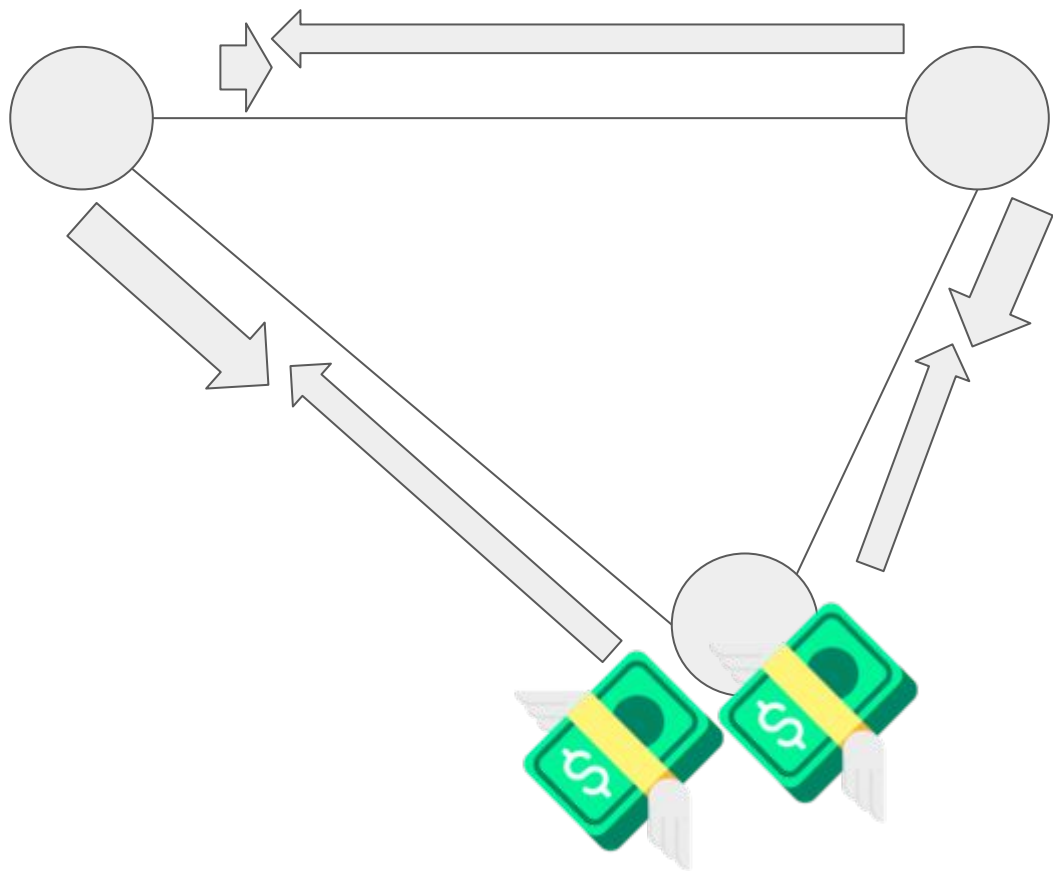


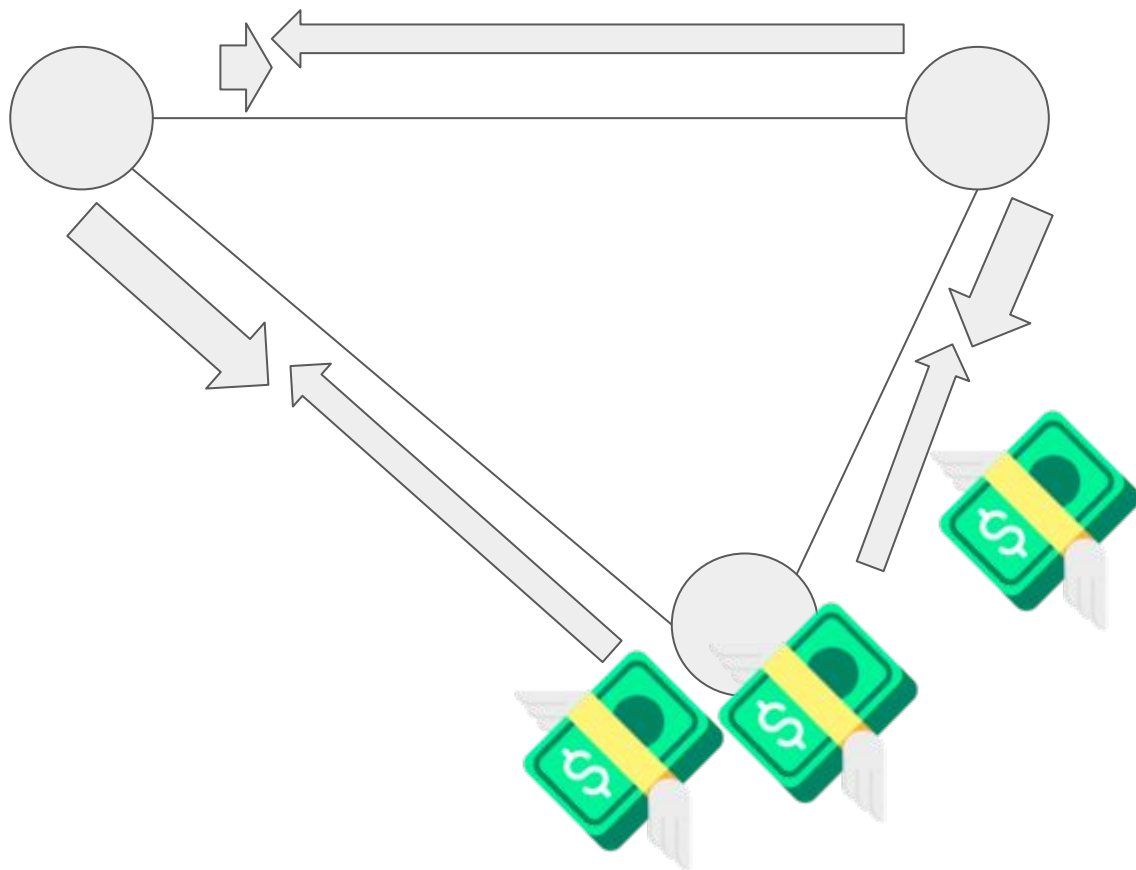


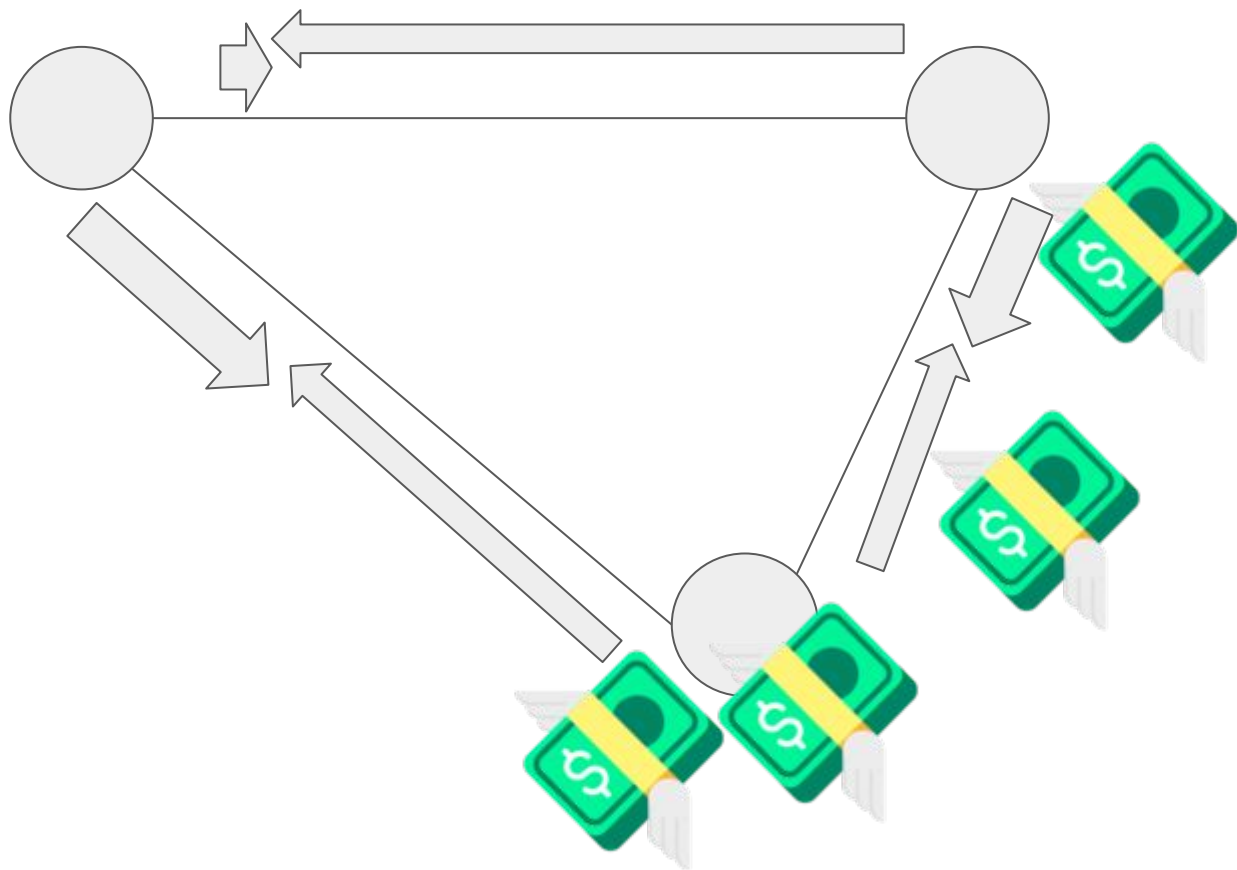


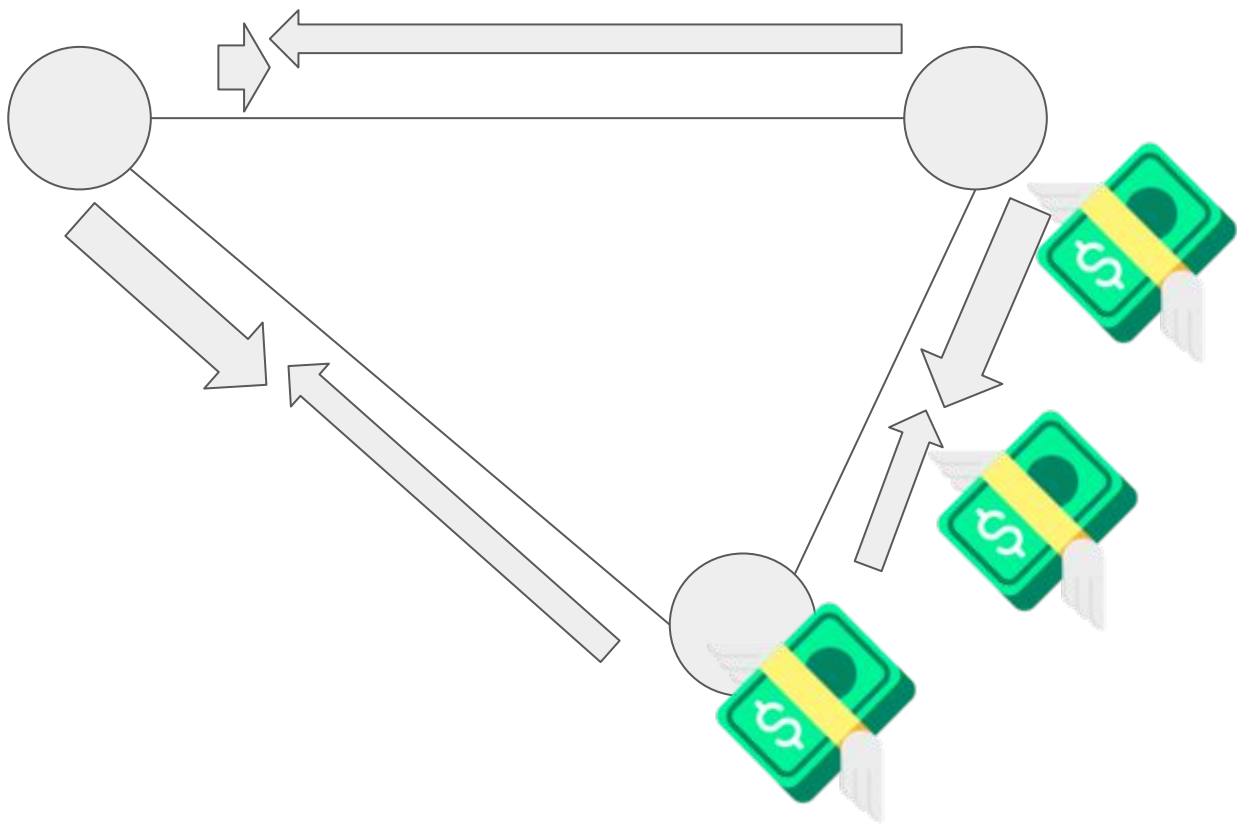


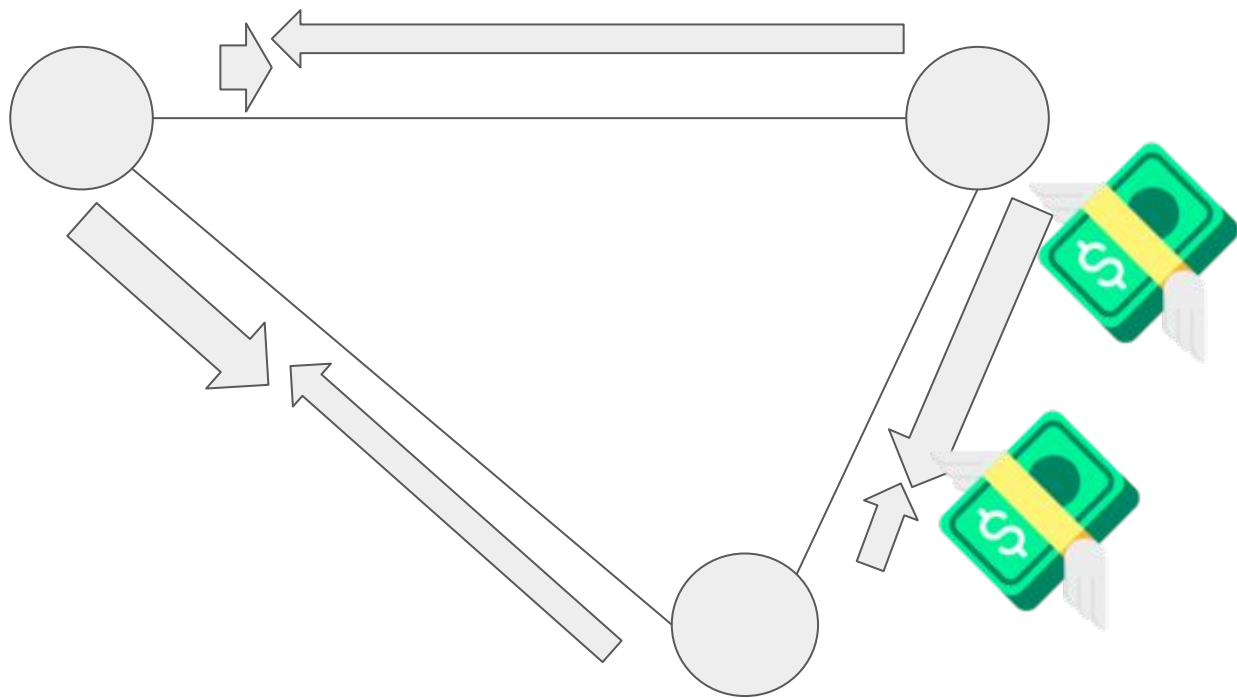


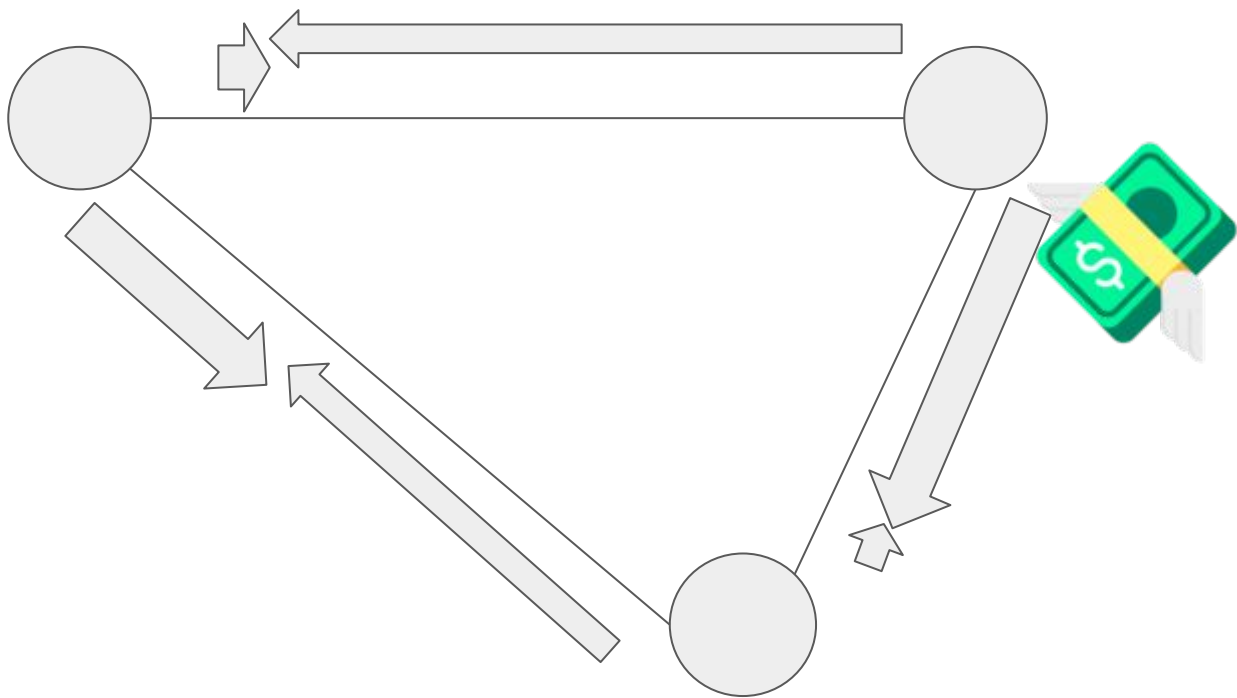












Rebalancing: send payments to yourself

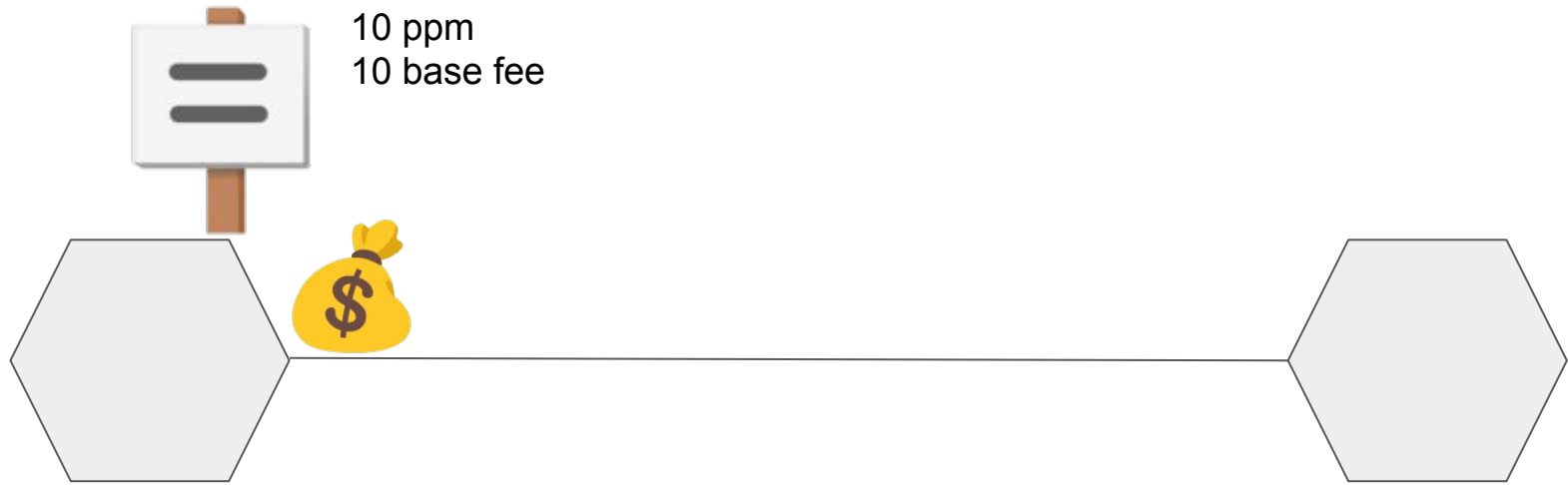
What if we incentivized people to send payments on channels so it got rebalanced?

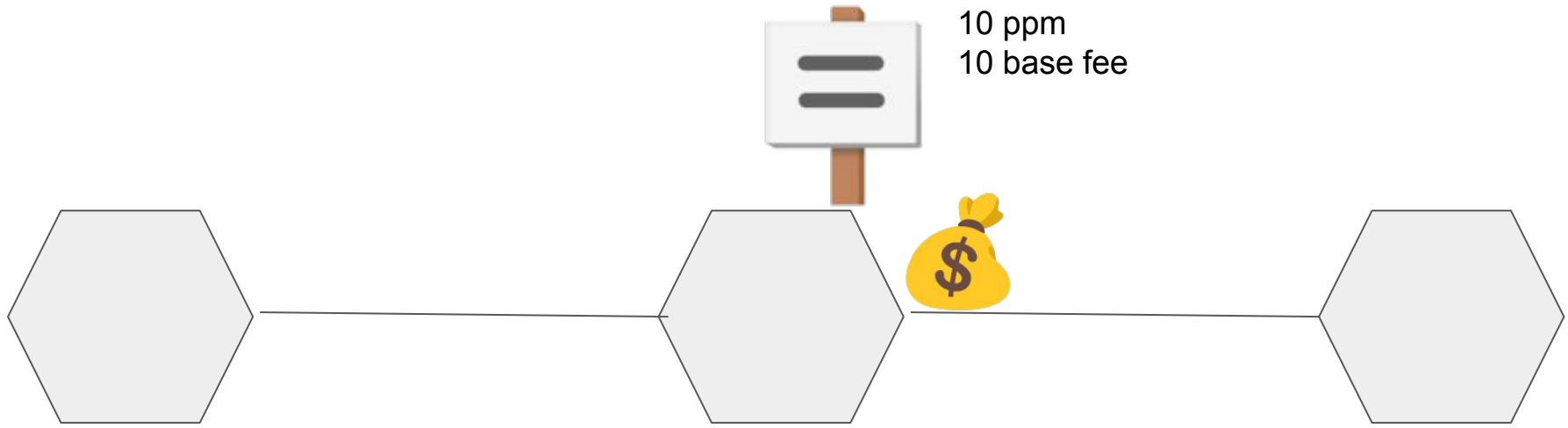
negative fees



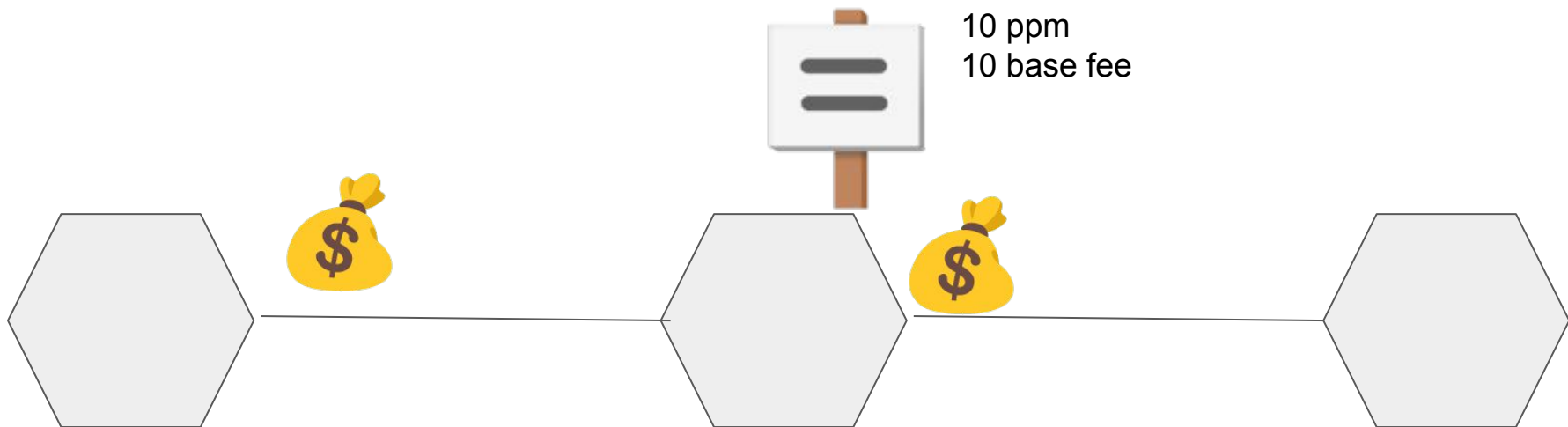


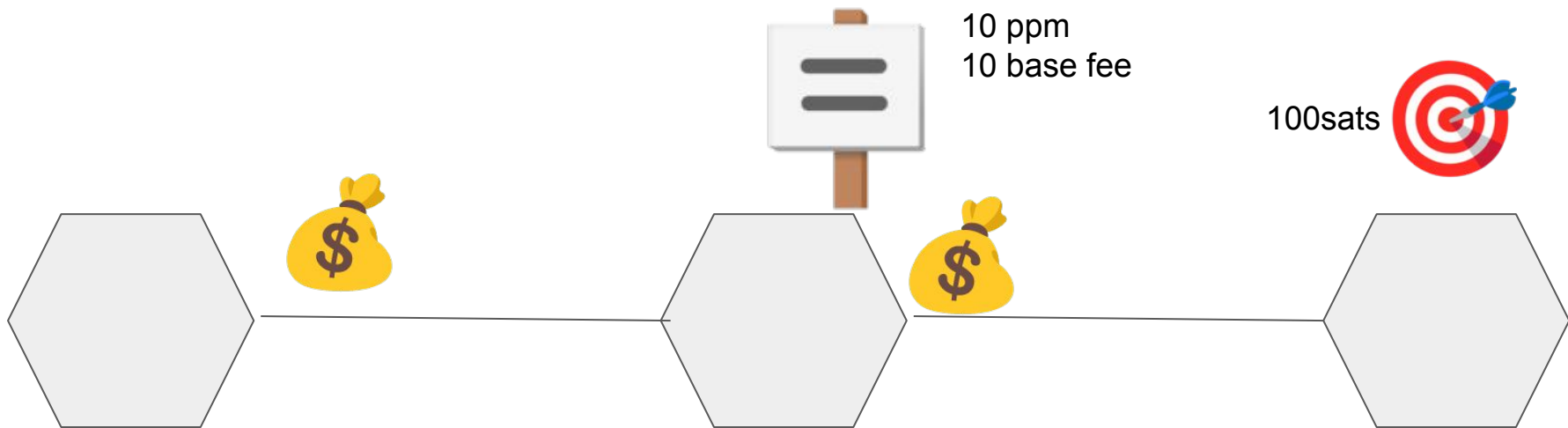


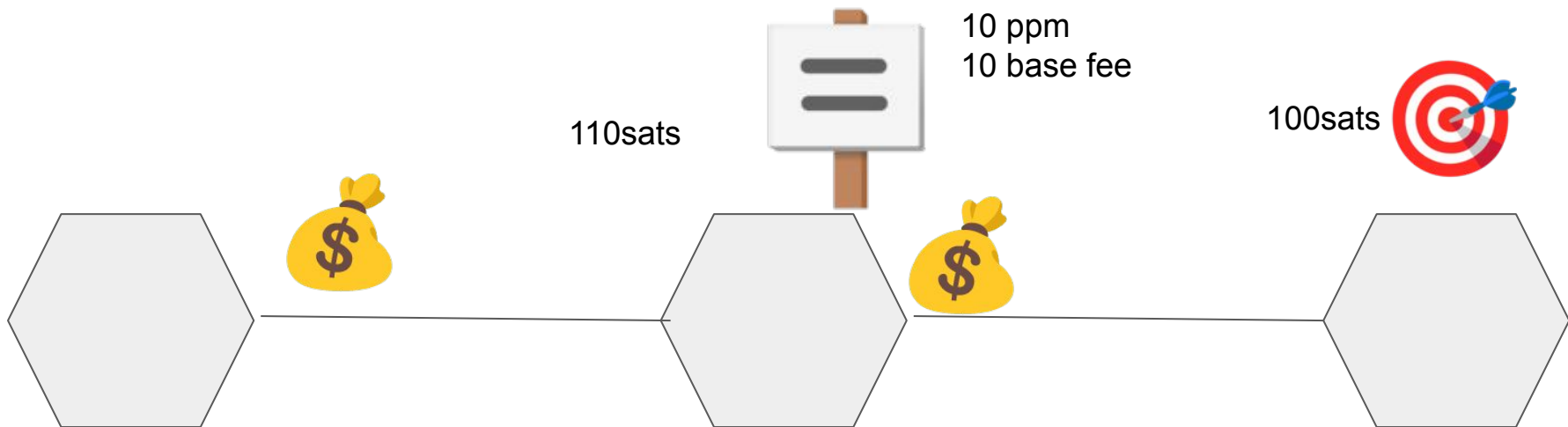


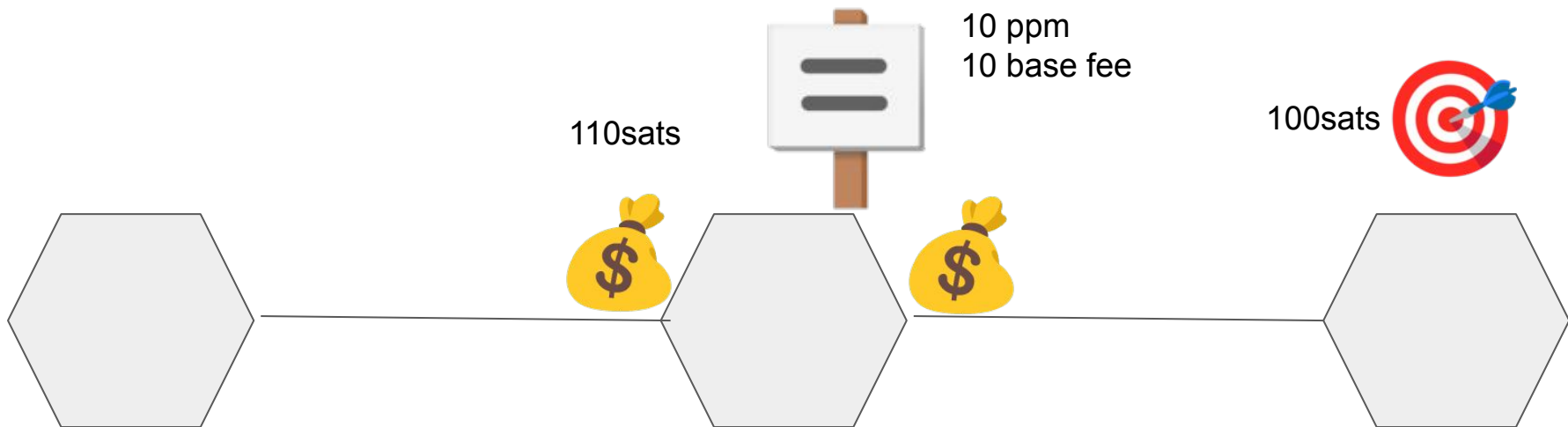


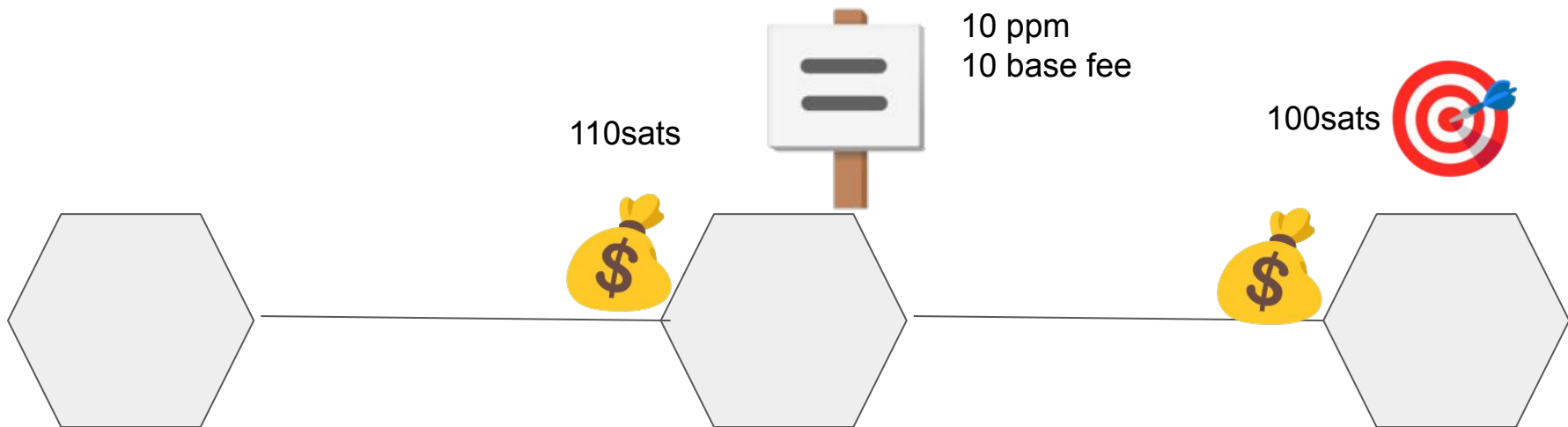
10 ppm
10 base fee

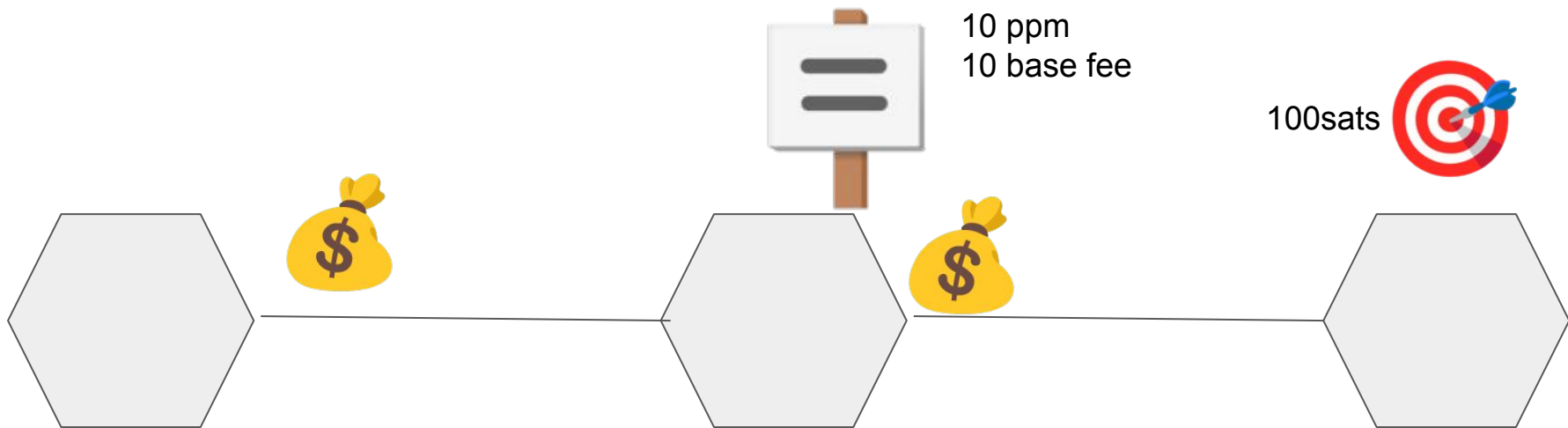


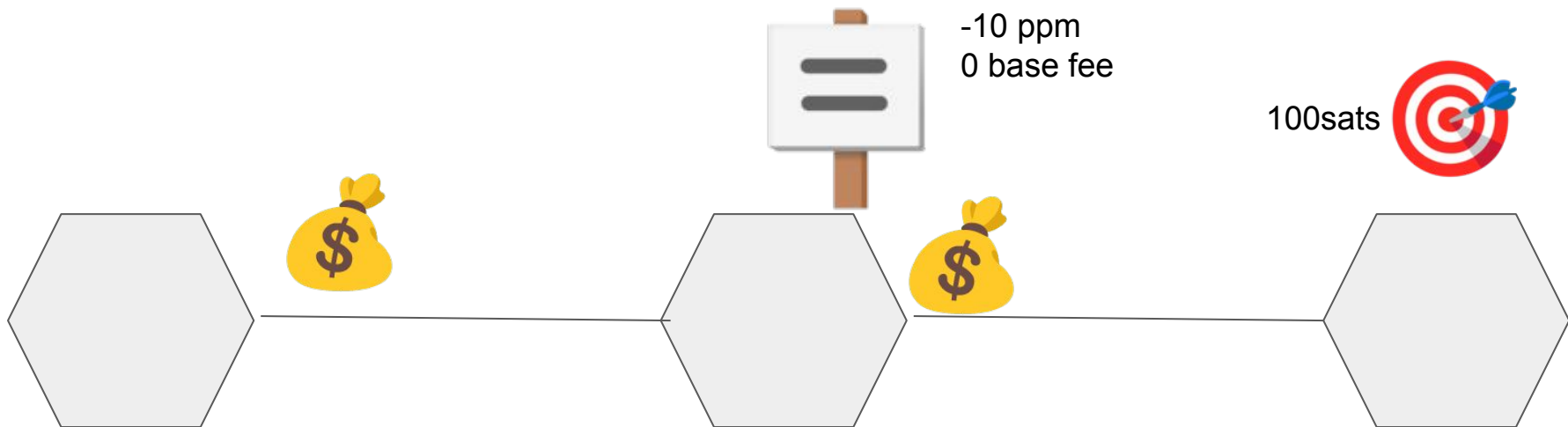


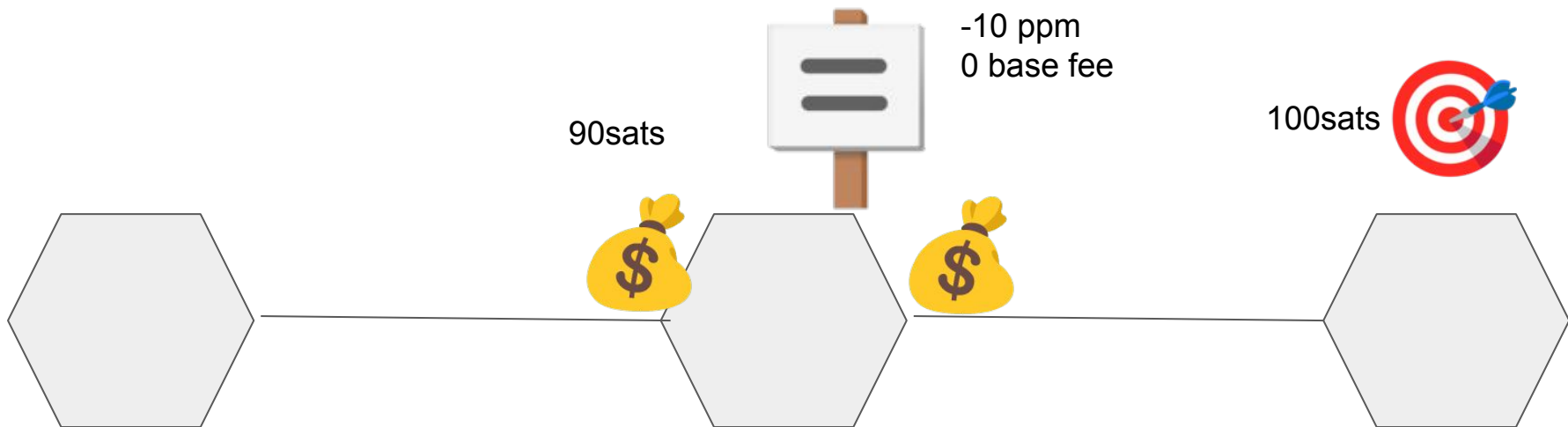


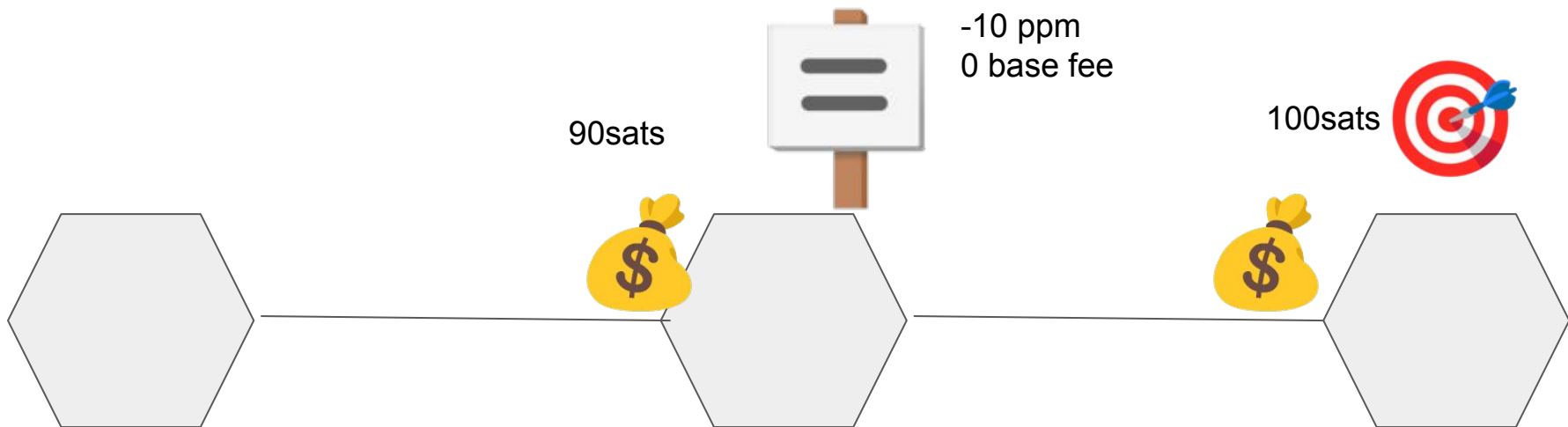




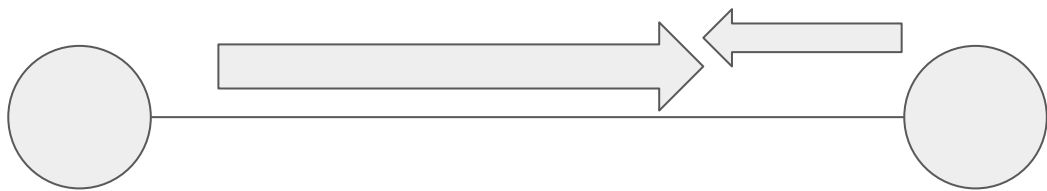


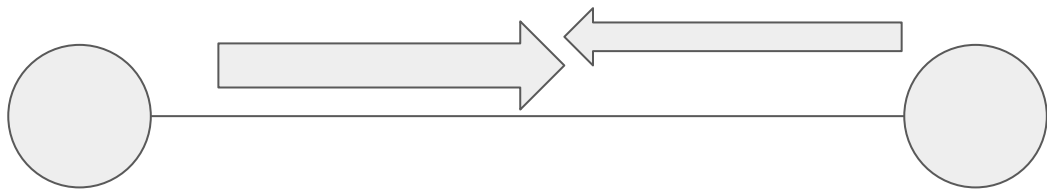


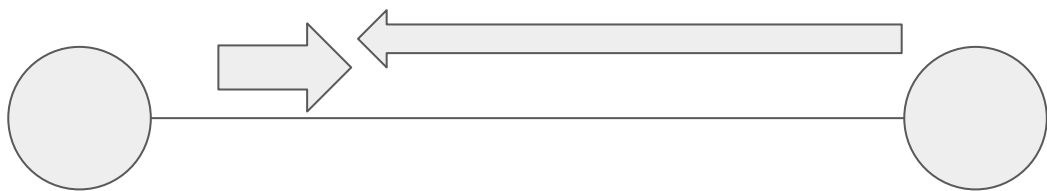




- How much capacity to make available at negative rates?

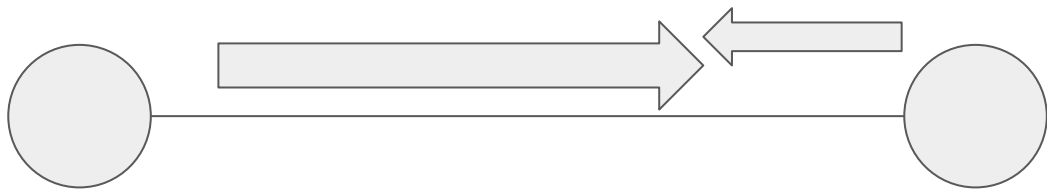


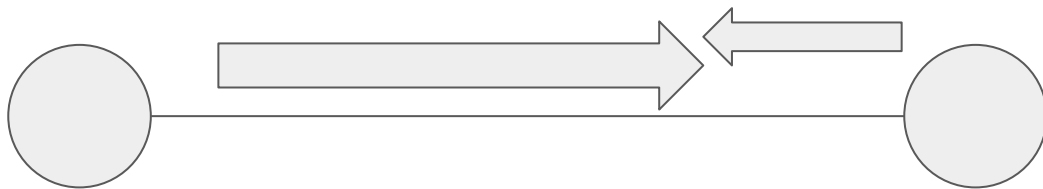




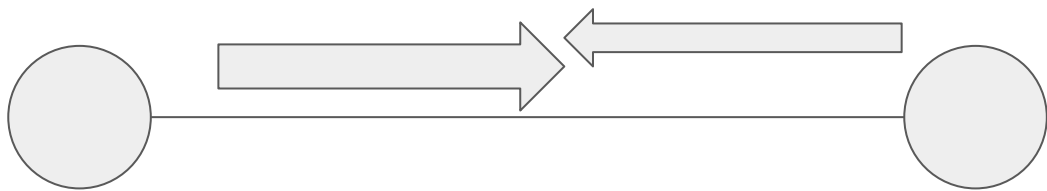
- How much capacity to make available at negative rates?

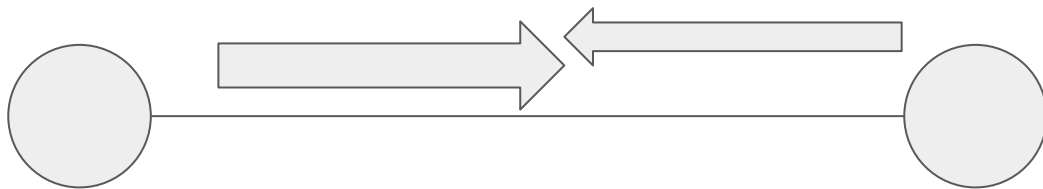
- How much capacity to make available at negative rates?
- -> “a lot of capacity, put it on sale”



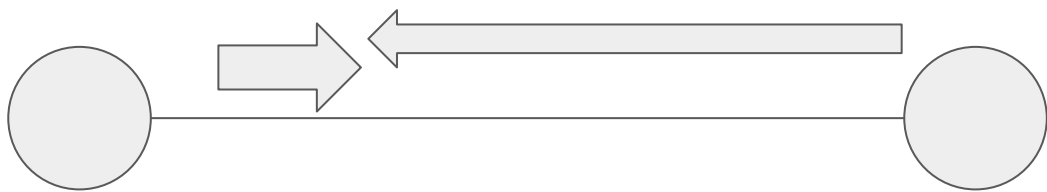


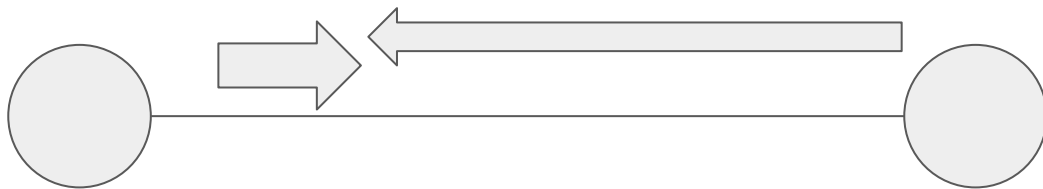
-10 ppm
0 base fee





10 ppm
0 base fee





100 ppm
0 base fee

- How much capacity to make available at negative rates?
- -> “a lot of capacity, put it on sale”
 - Less capacity, want to charge more for

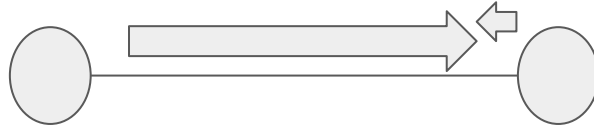
- How much capacity to make available at negative rates?
- -> “a lot of capacity, put it on sale”
 - Less capacity, want to charge more for
- dynamic fees by available capacity

negative fees

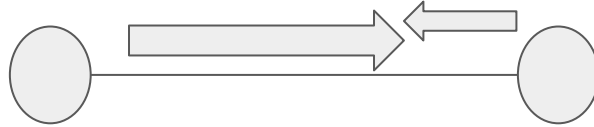
negative fees + rate cards

negative fees + rate cards

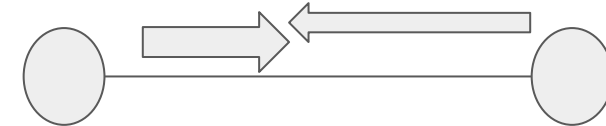
76 - 100%



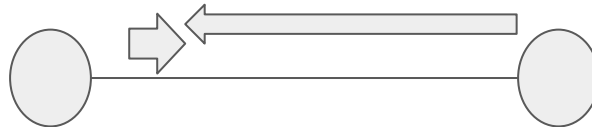
51 - 75%



26 - 50%

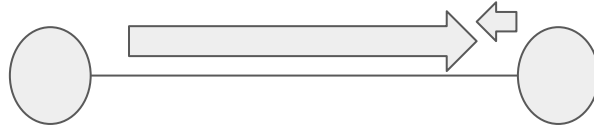


1 - 25%

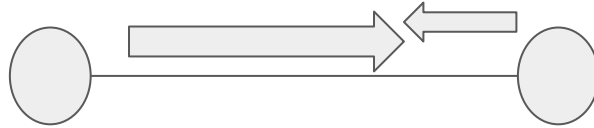


negative fees + rate cards

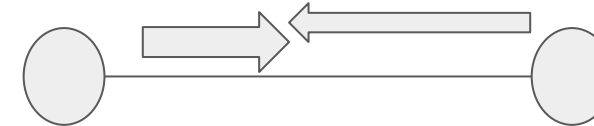
76 - 100%
-10ppm



51 - 75%
3ppm



26 - 50%
10ppm



1 - 25%
100ppm



Doesn't that leak my channel balance?

State of “negative fees + rate cards”

- “Pre-spec”

State of “negative fees + rate cards”

- “Pre-spec”
- Probably in CLN’s next release as ‘experimental’