Author: Diego JIN

CAP theorem

Consistency

- 1. All nodes keep the same data at the same time.
- 2. It achieves via updating all nodes' data before any reads.
- 3. Very important to money transaction. Ex, bank, Amazon, PayPal.

Availability

- 1. Request can get valid responses, even when some nodes are failure.
- 2. It achieves via **replicating** data in several nodes.

Partition tolerance

1. Nodes can still work, even when communication between some nodes are broken.

