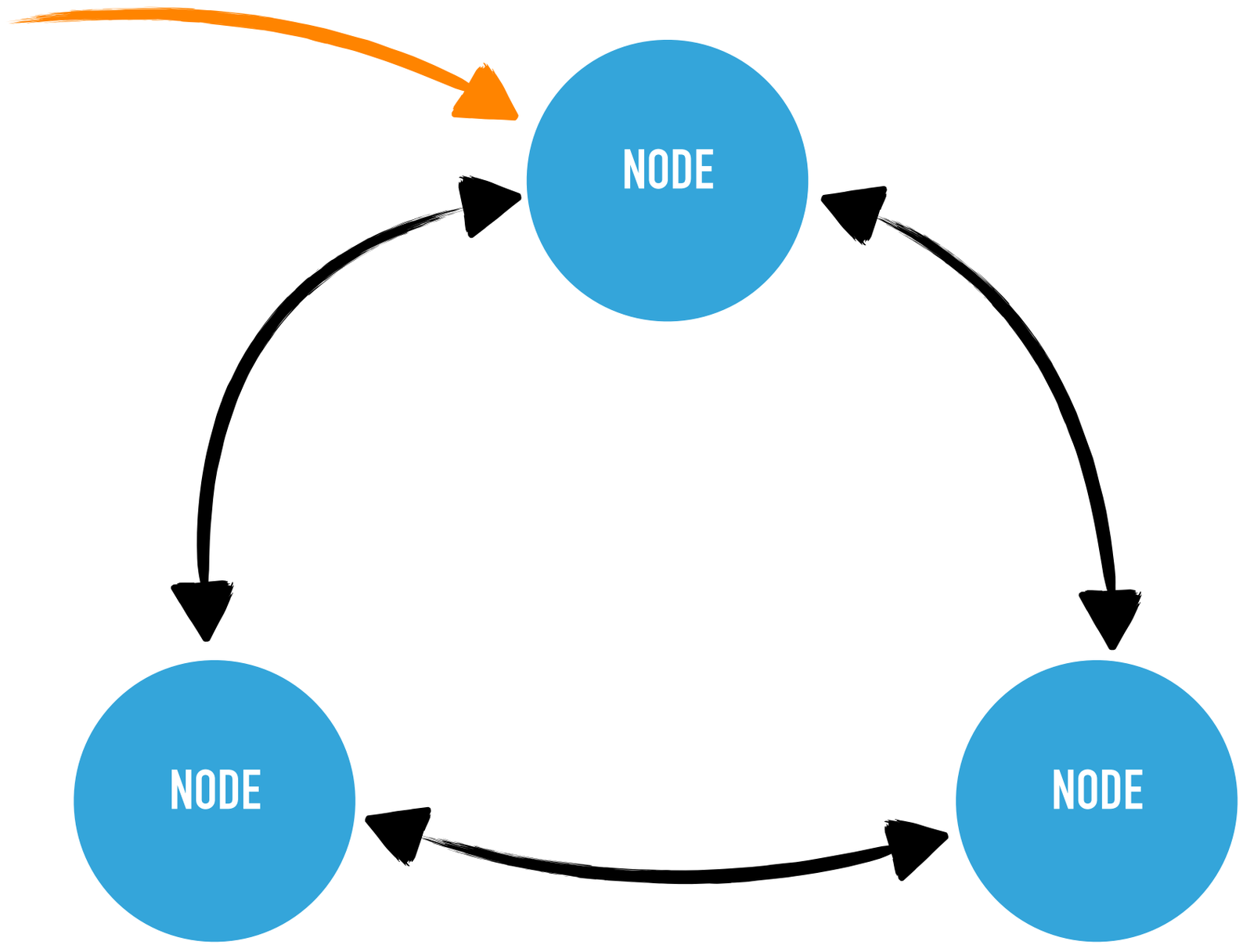
EVENTUAL CONSISTENCY

EVENTUAL CONSISTENCY

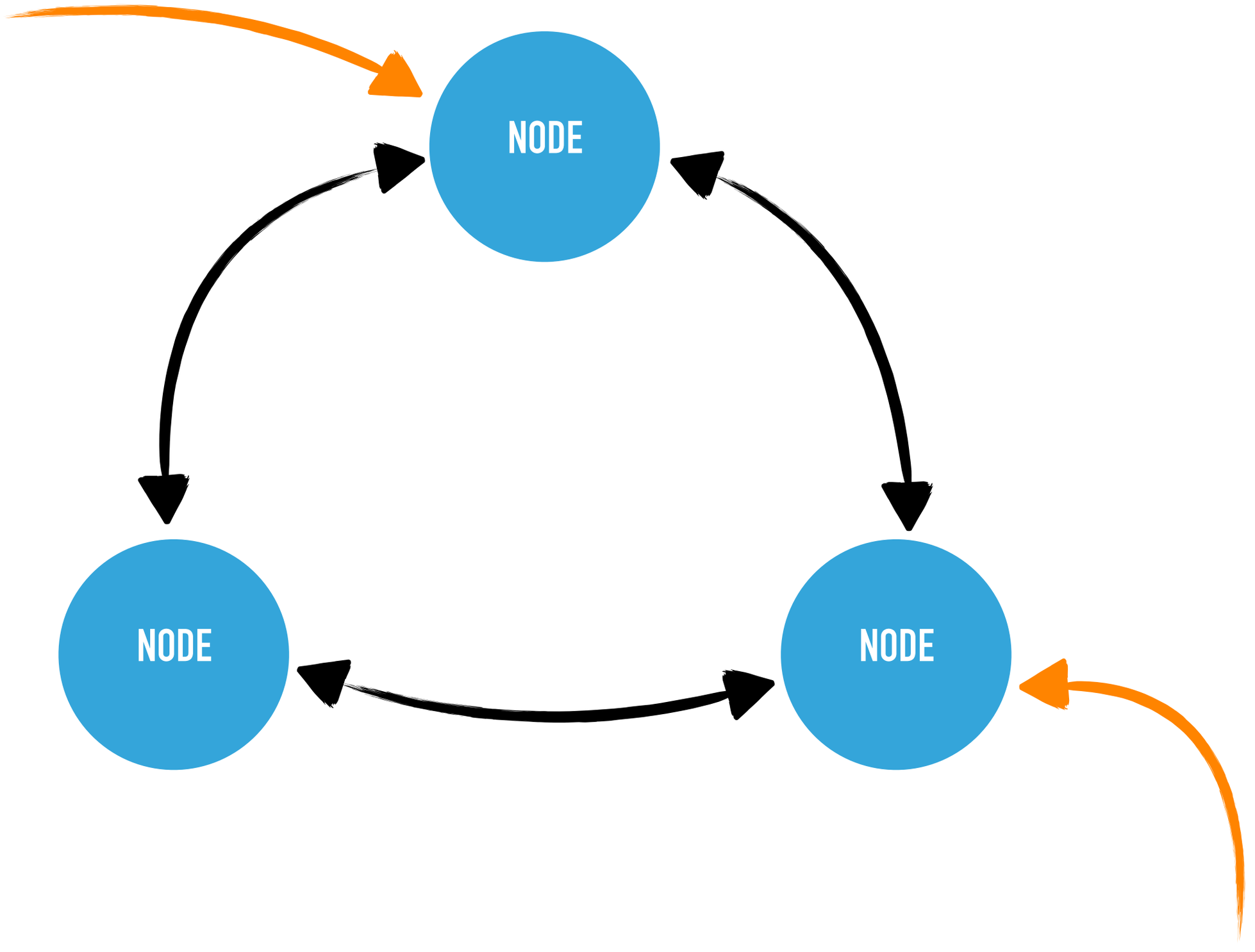
—

INCONSISTENCY

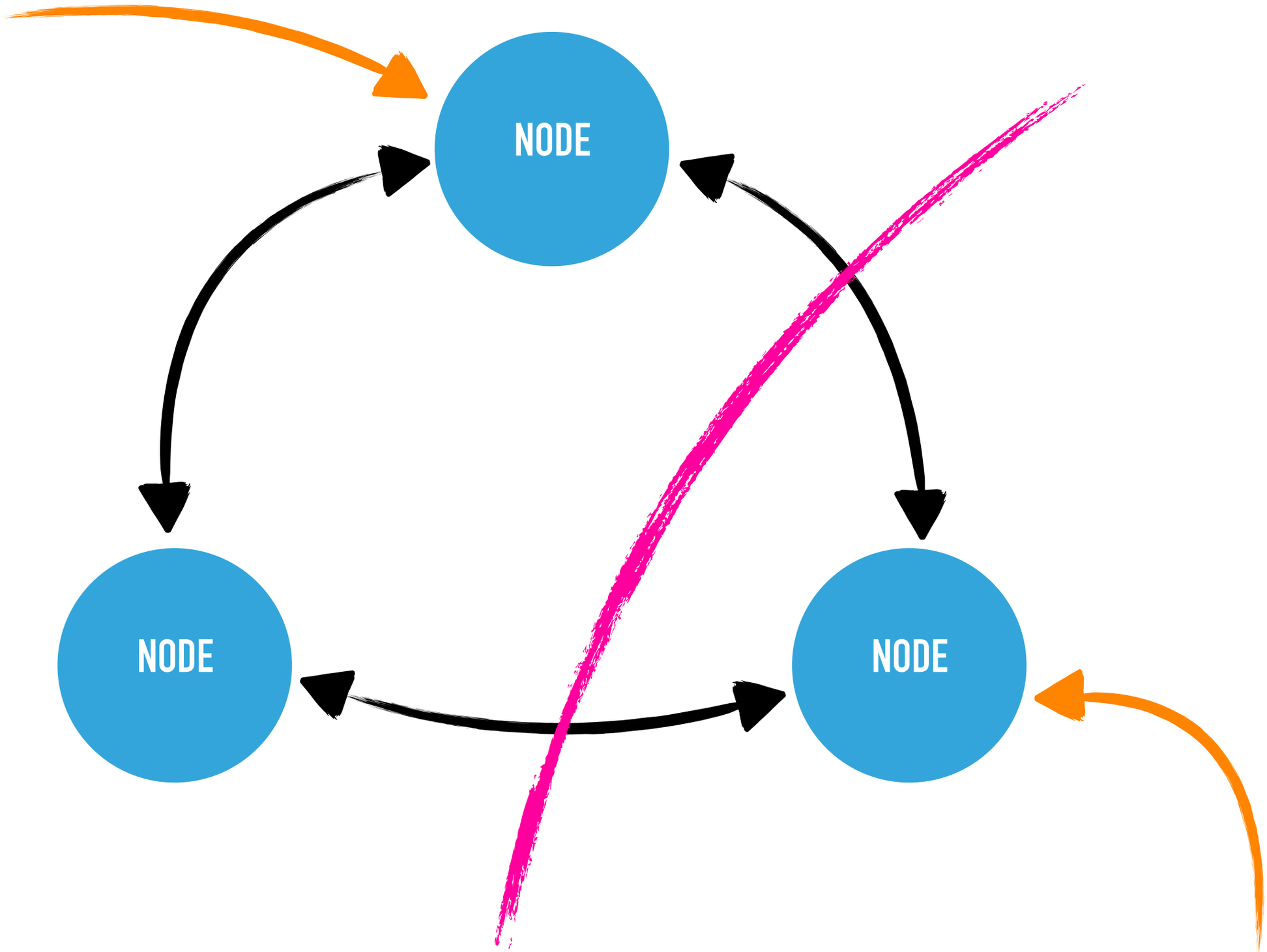
OVERVIEW



OVERVIEW



OVERVIEW



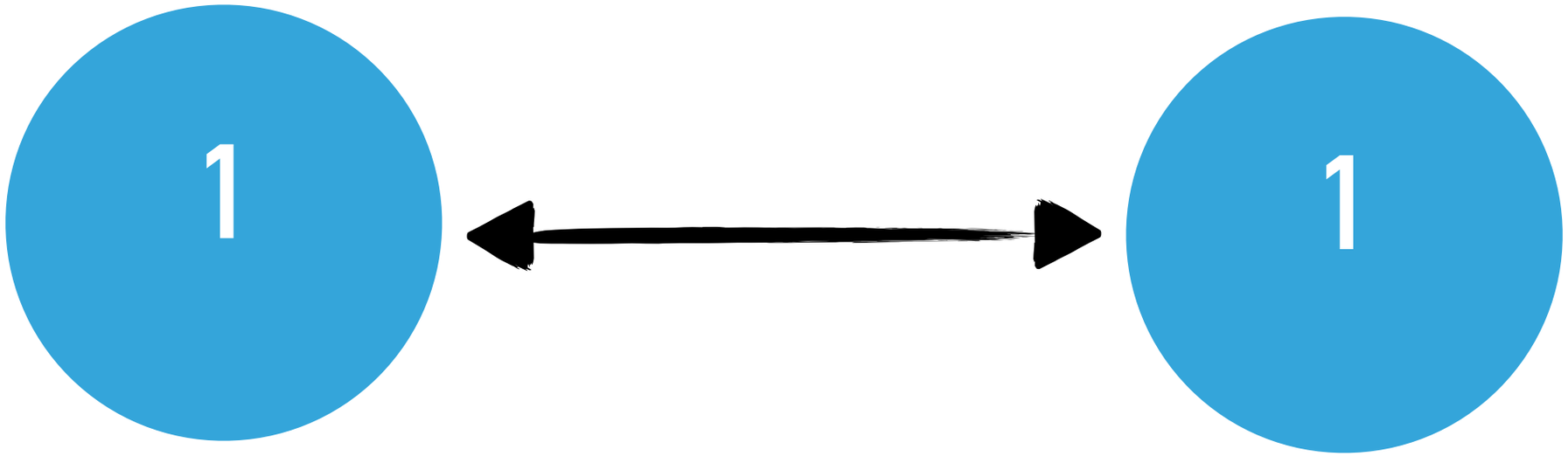
CRDT

COMMUTATIVE REPLICATED DATA TYPE

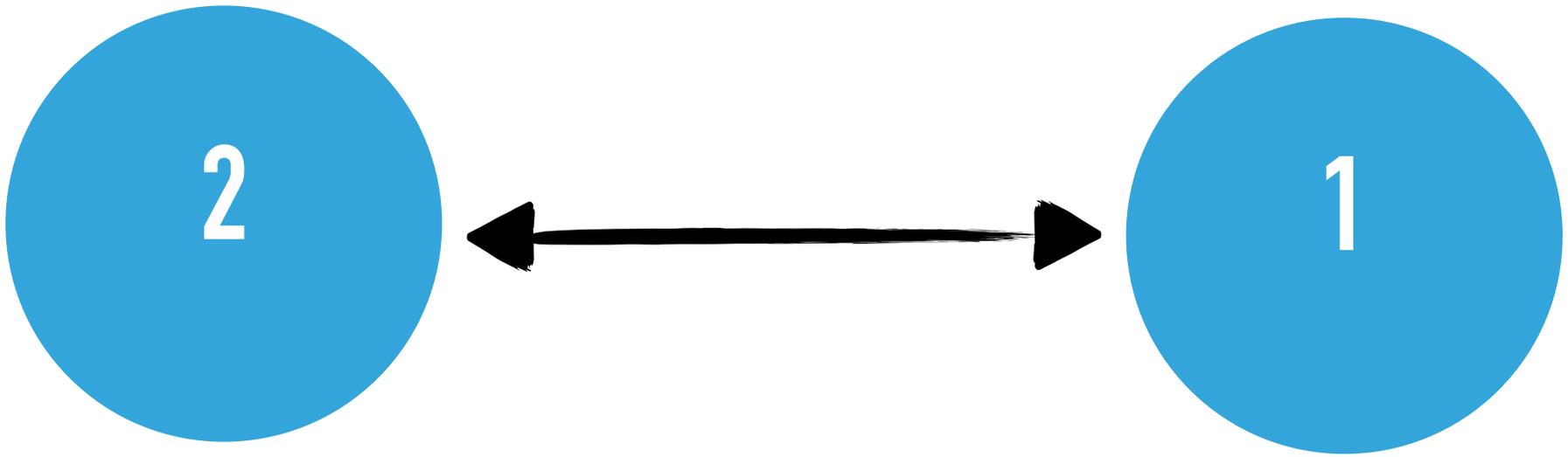
CONFLICT-FREE REPLICATED DATA TYPE

CONSISTENT REPLICATED DATA TYPE

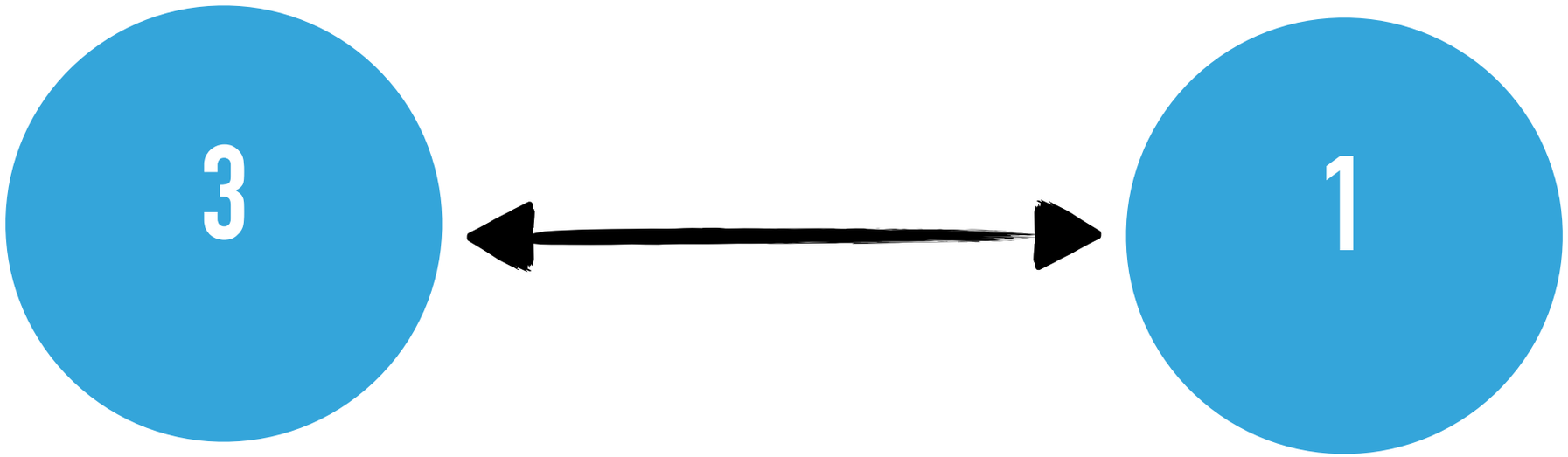
COUNTER



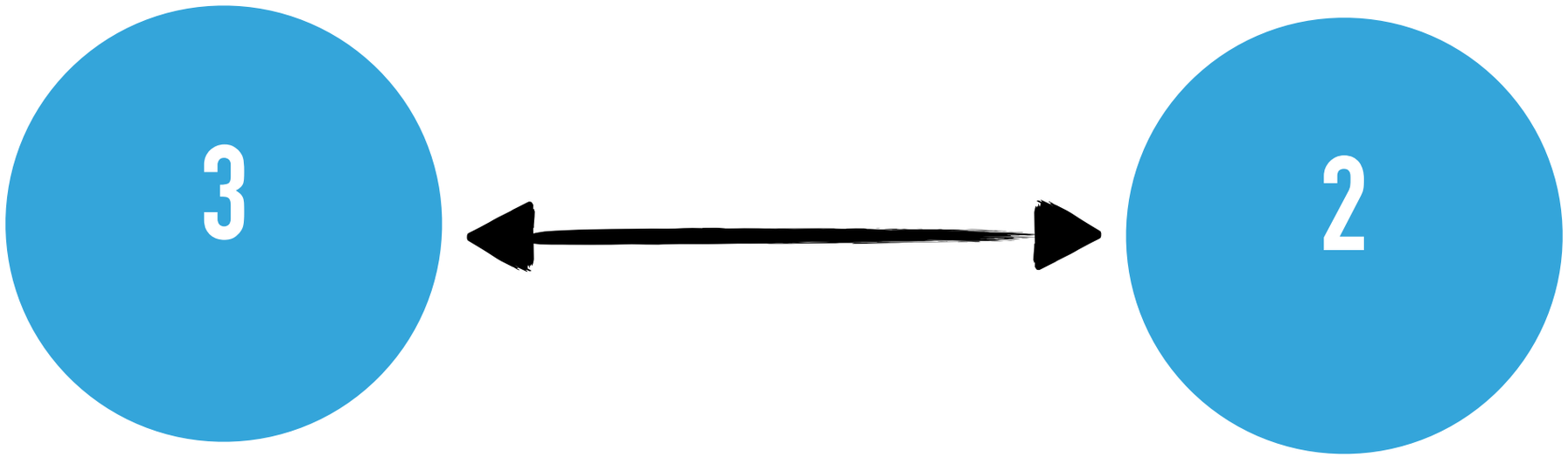
COUNTER



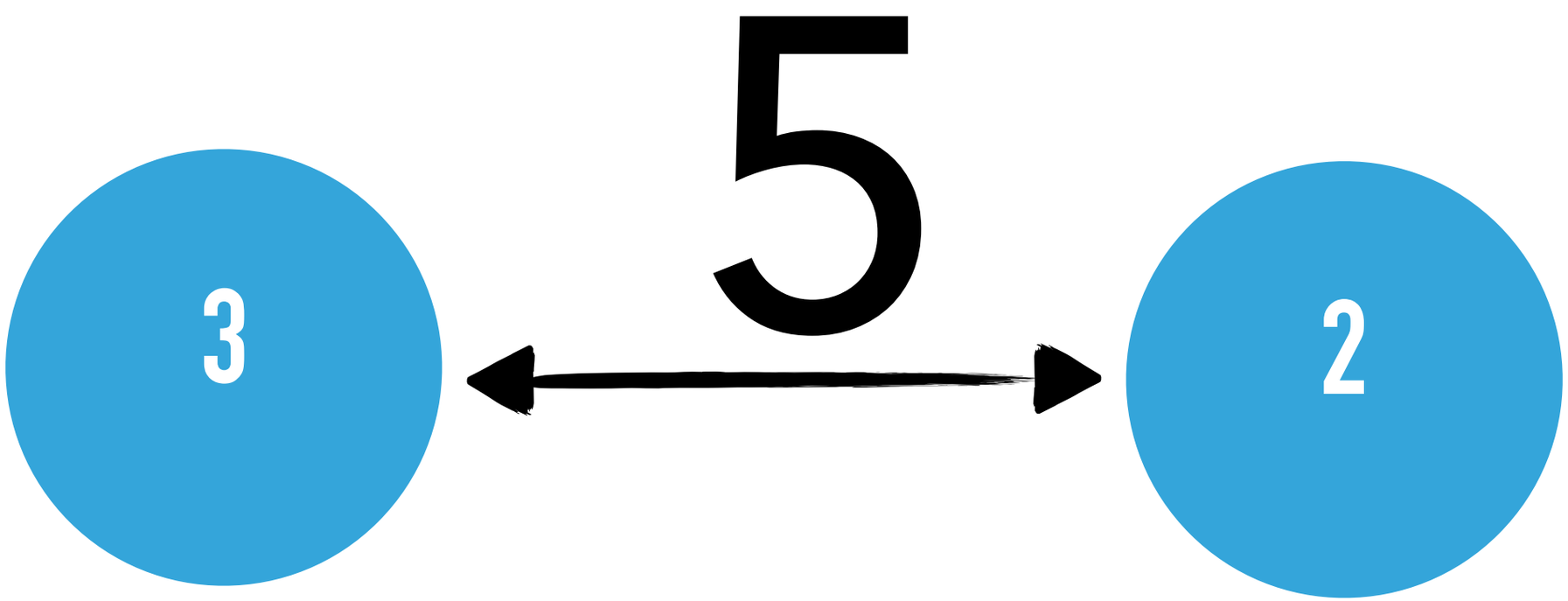
COUNTER



COUNTER



COUNTER



LASP

https://github.com/keathley/drax

```
Drax.GCounter.new
|> Drax.GCounter.increment(:foo@localhost)
|> Drax.GCounter.increment(:bar@localhost)
|> Drax.GCounter.increment(:baz@localhost)
|> to_i
# => 3
```

```
c1 =
  Drax.GCounter.new()
  |> Drax.GCounter.increment()
  |> Drax.GCounter.increment()

c2 =
  Drax.GCounter.new()
  |> Drax.GCounter.increment()

Drax.GCounter.merge(c1, c2)
|> Drax.GCounter.to_i
# => 3
```

```
:net_kernel.monitor_nodes(true)
```

```
{:nodeup, node()}
```

```
{:nodedown, node()}
```

AGGREGATES

- Keep track of the number of times someone uses the short link
- Replicate counters across all nodes
- Aggregates endpoint should return the number of redirects for that short link.