

Distribuované systémy a výpočty

X36DSV

Jan Janeček
(dnes Peter Macejko)



Sdílení dat

Architektura

- client-server
- distribuovaná

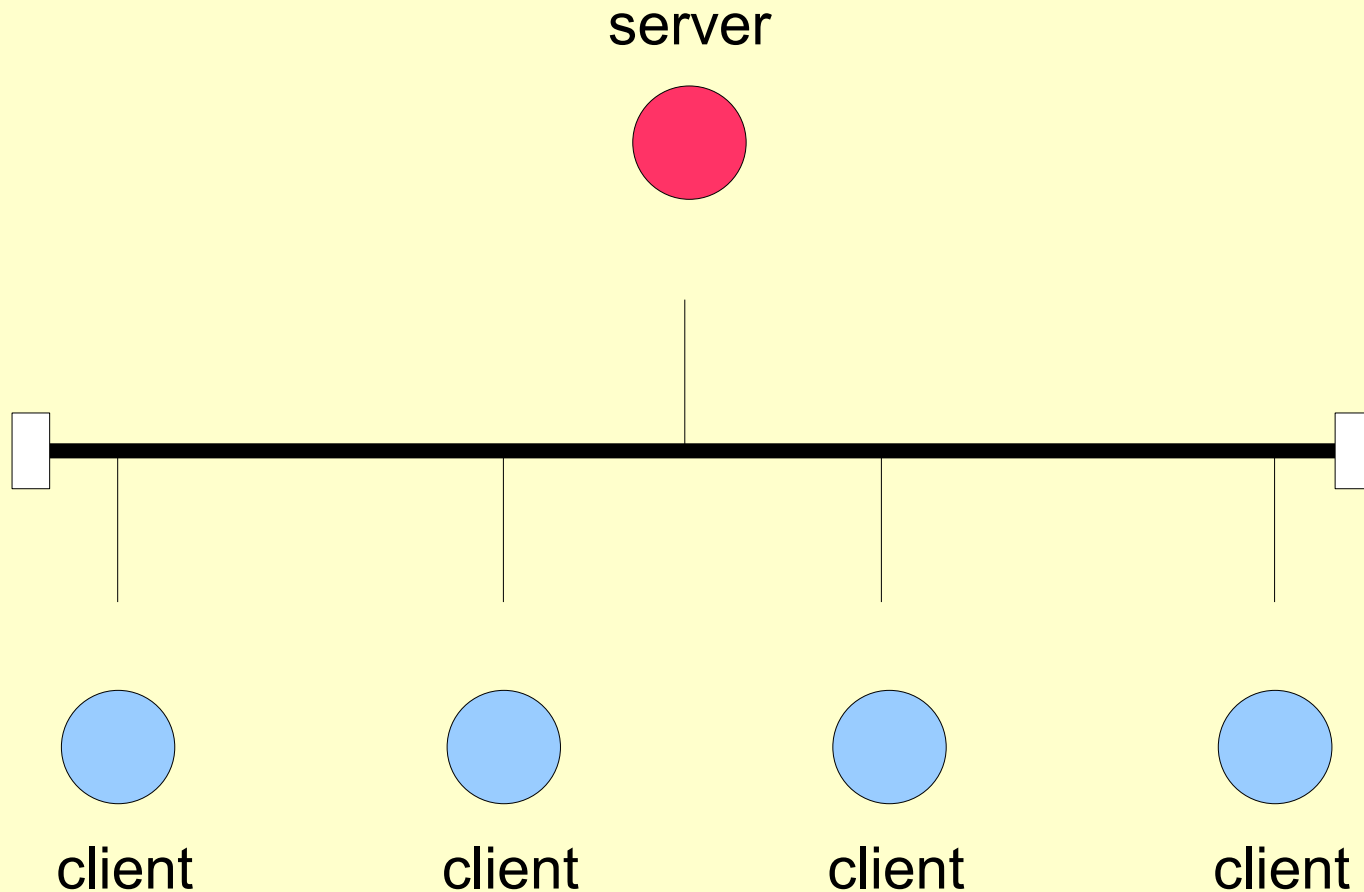
Replikace

- žádná
- částečná
- úplná
 - primary copy model
 - gossip architecture



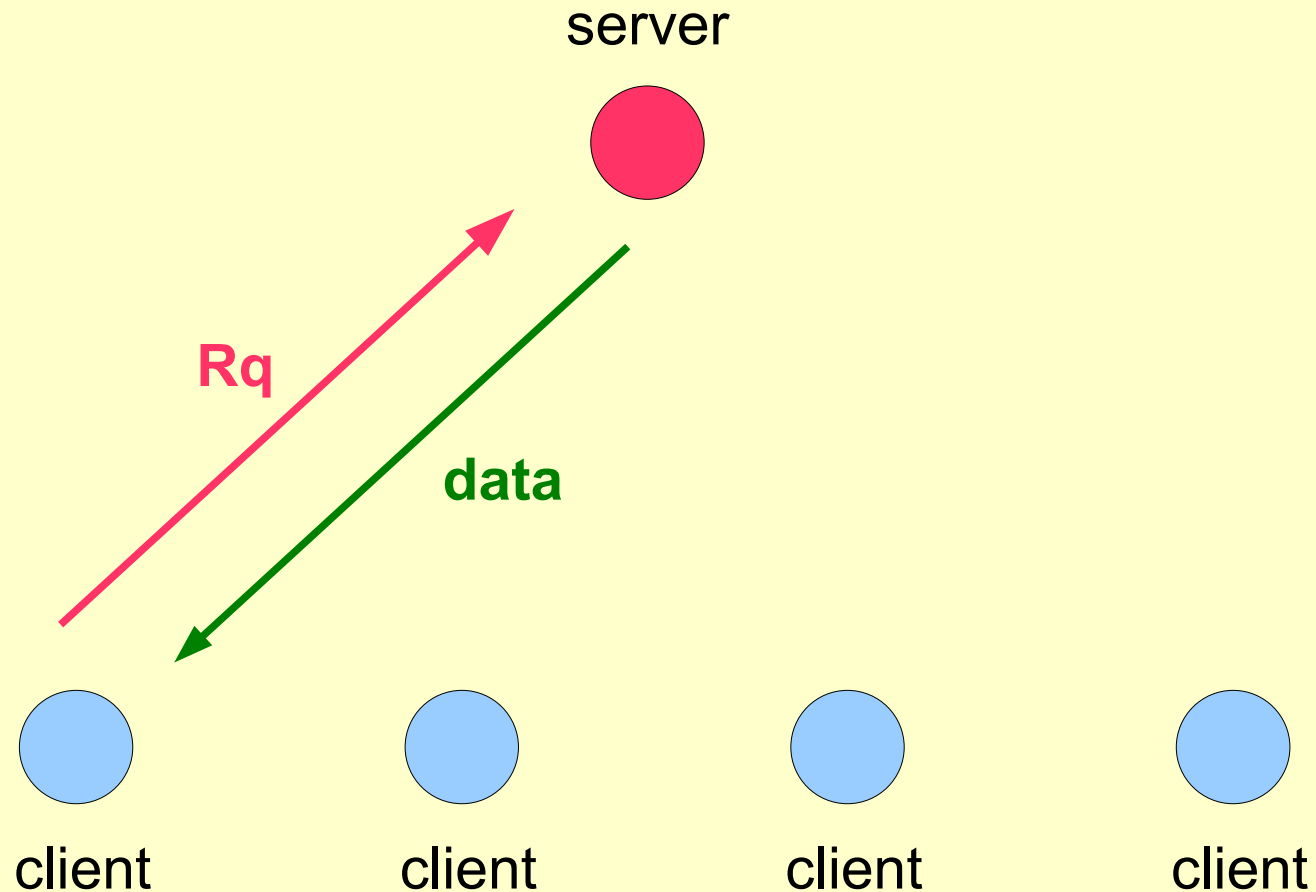
Sdílení dat

Client-server



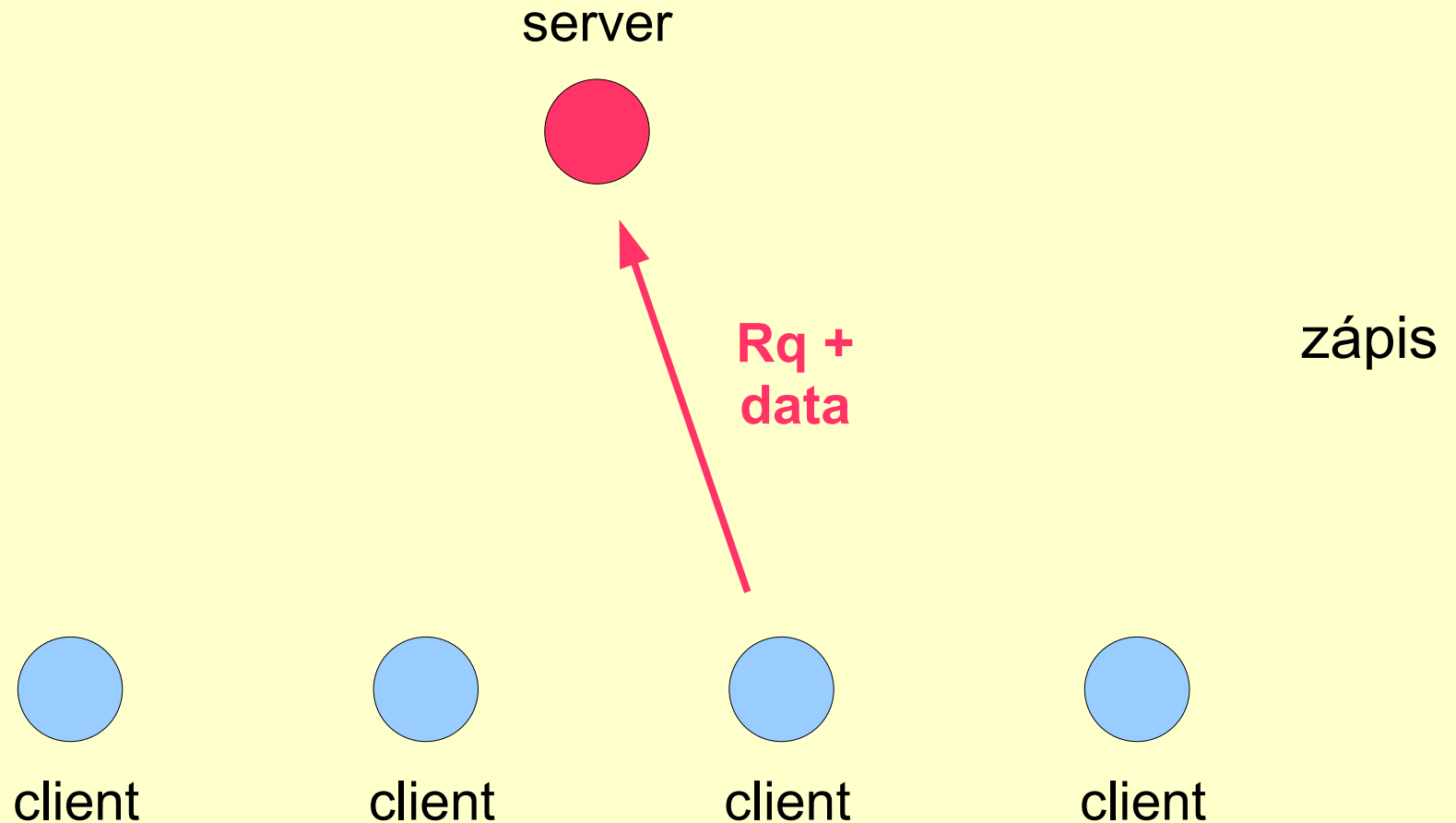
Sdílení dat

Client-server



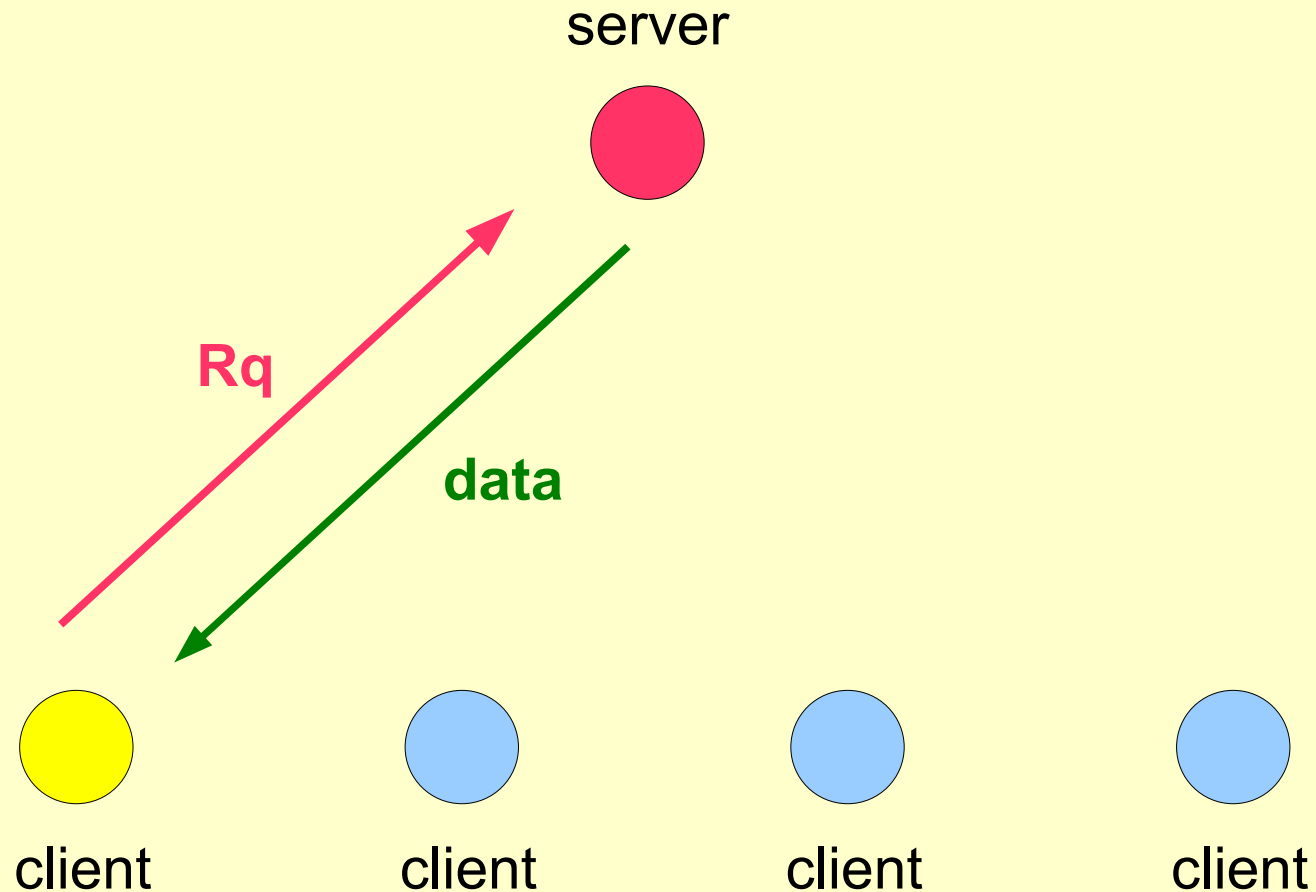
Sdílení dat

Client-server



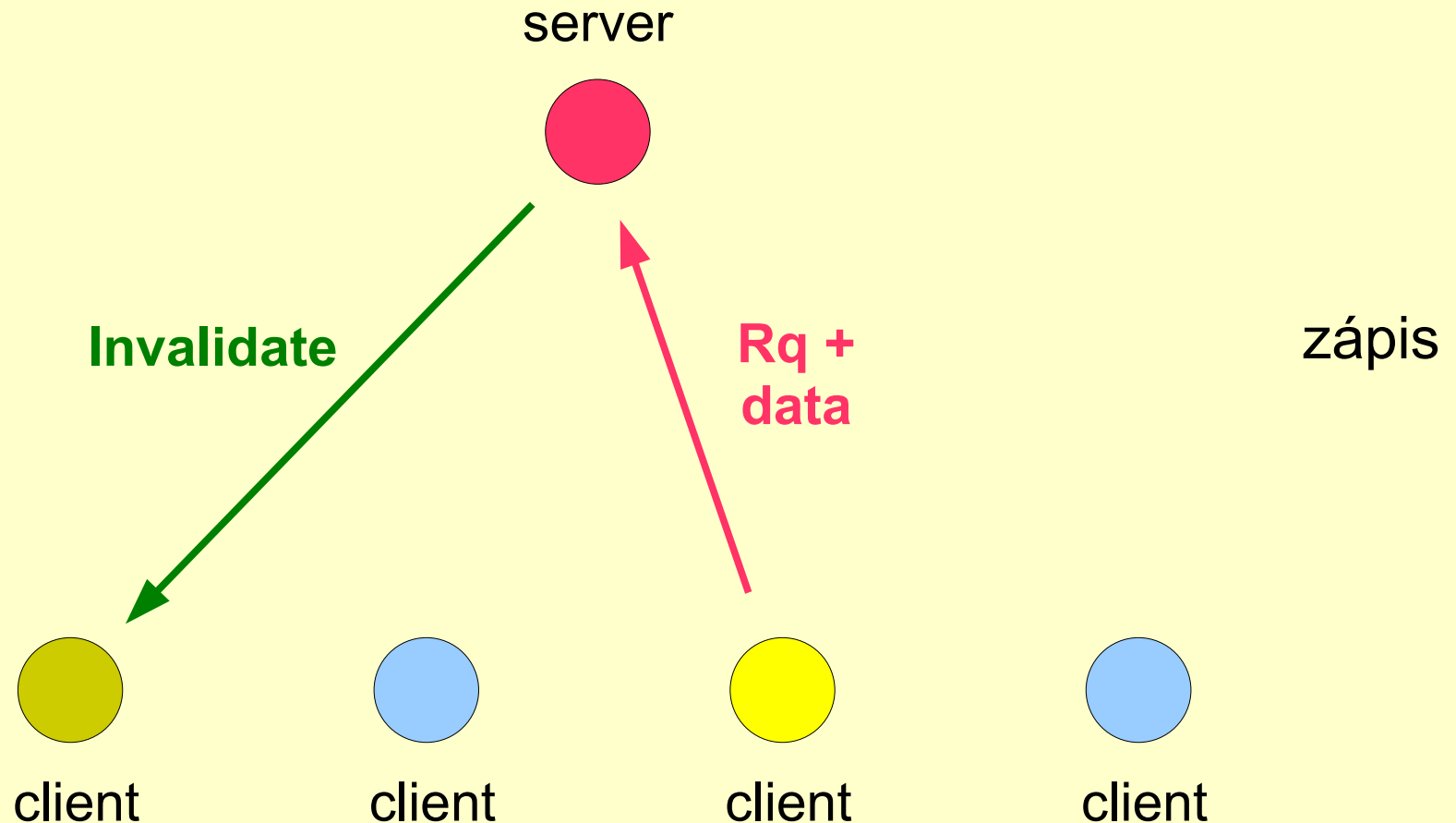
Sdílení dat

Caching – read-only model



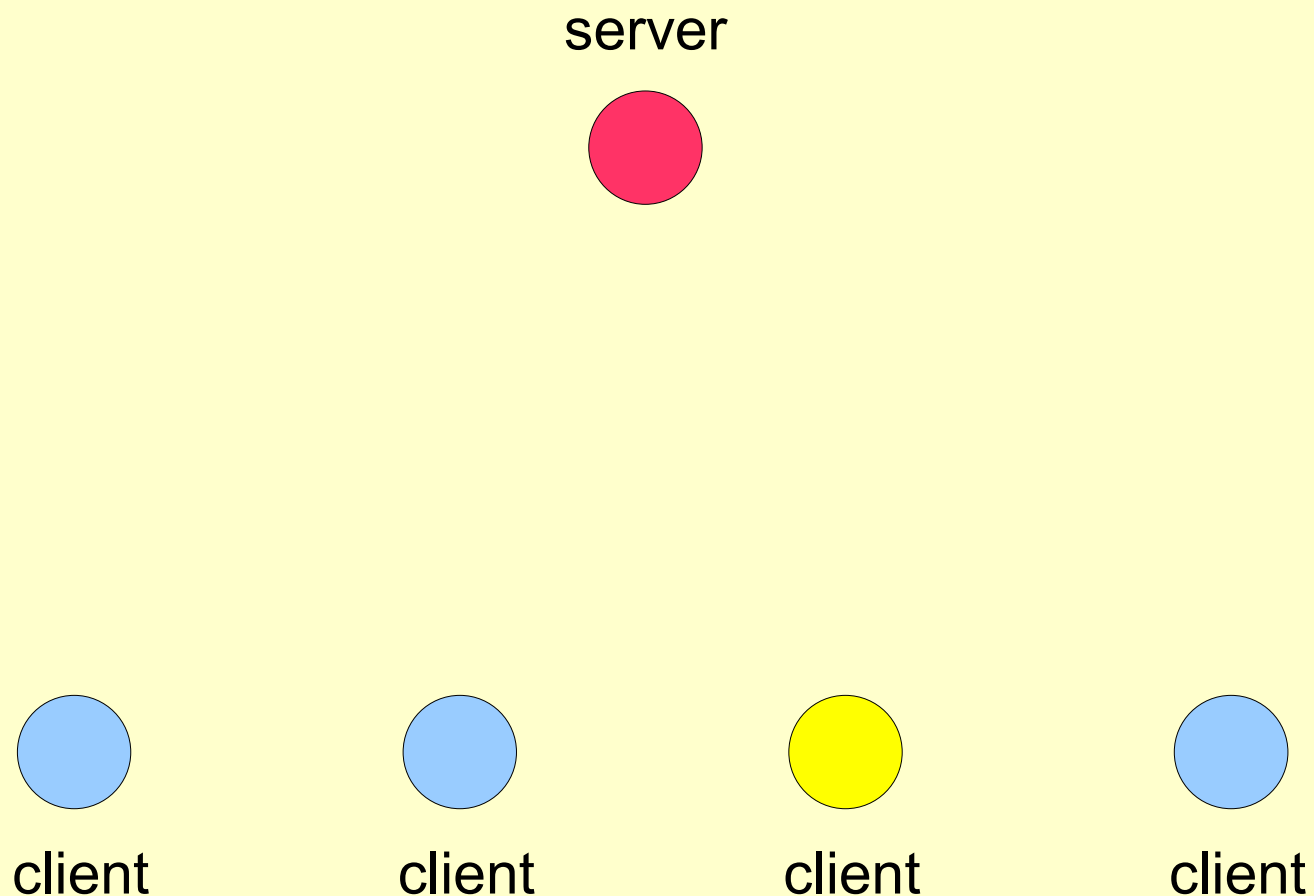
Sdílení dat

Caching – read-only model



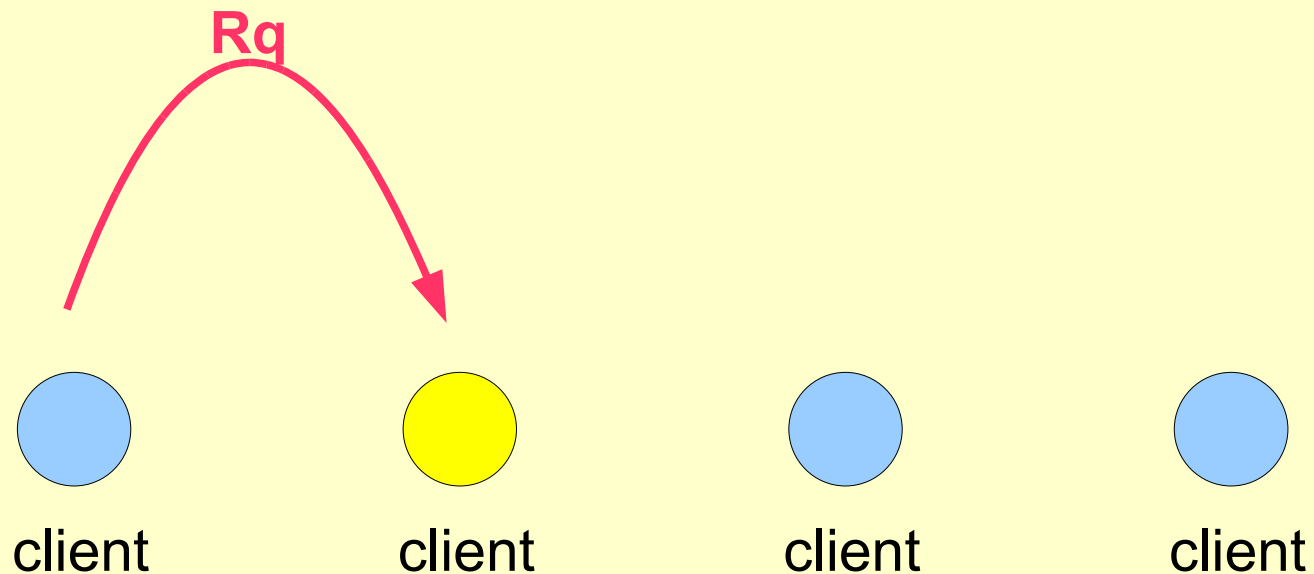
Sdílení dat

Caching – read-only model



Sdílení dat

Mobilita

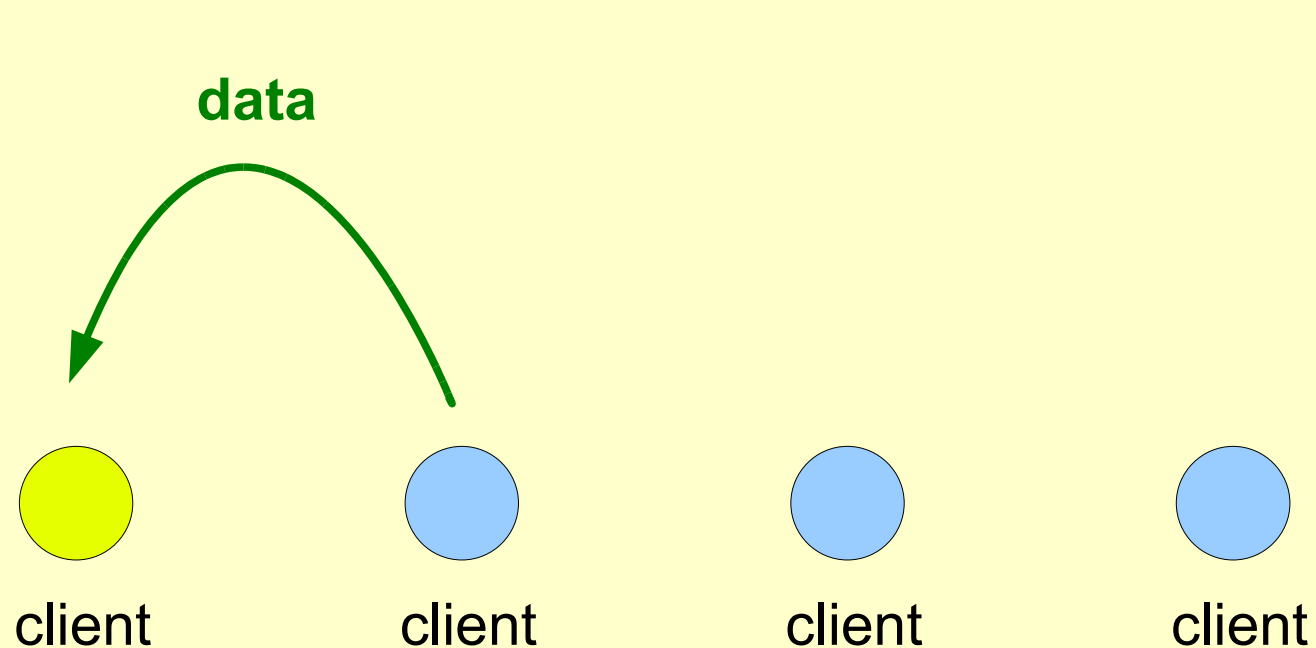


čtení
+
zápis



Sdílení dat

Mobilita

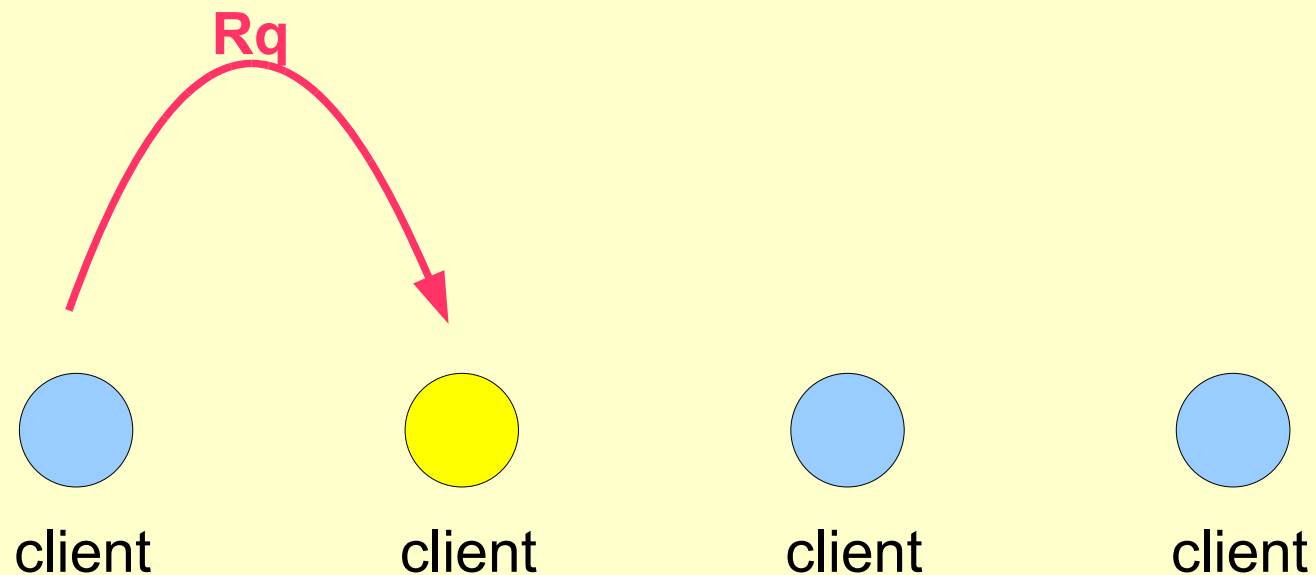


čtení
+
zápis



Sdílení dat

Mobilita a replikace

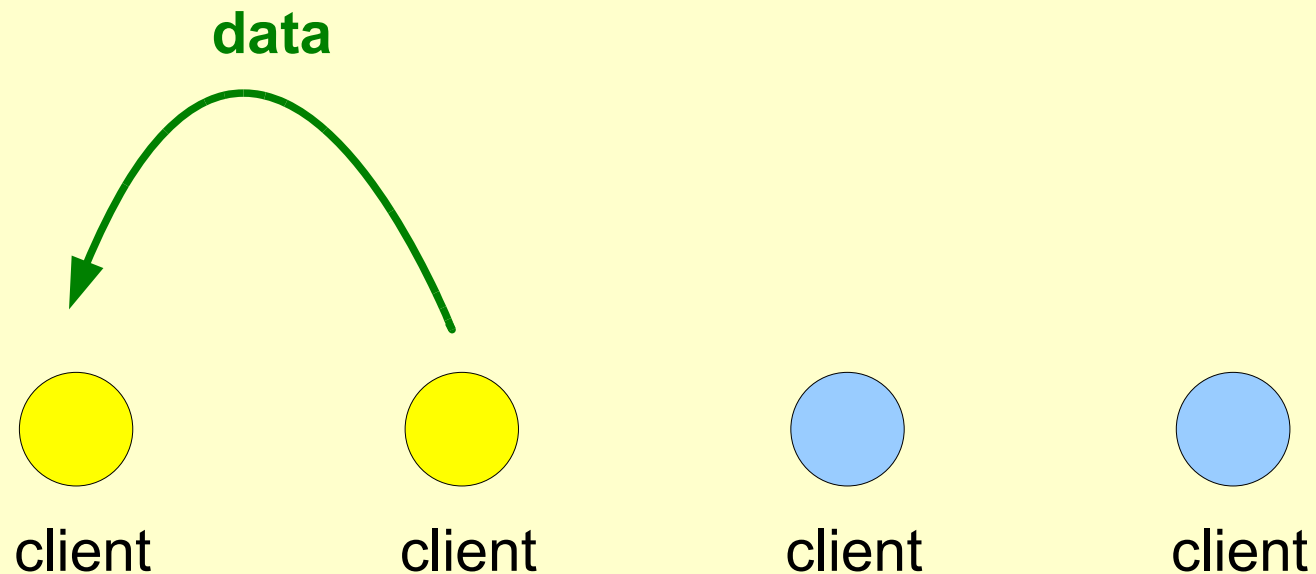


čtení



Sdílení dat

Mobilita a replikace

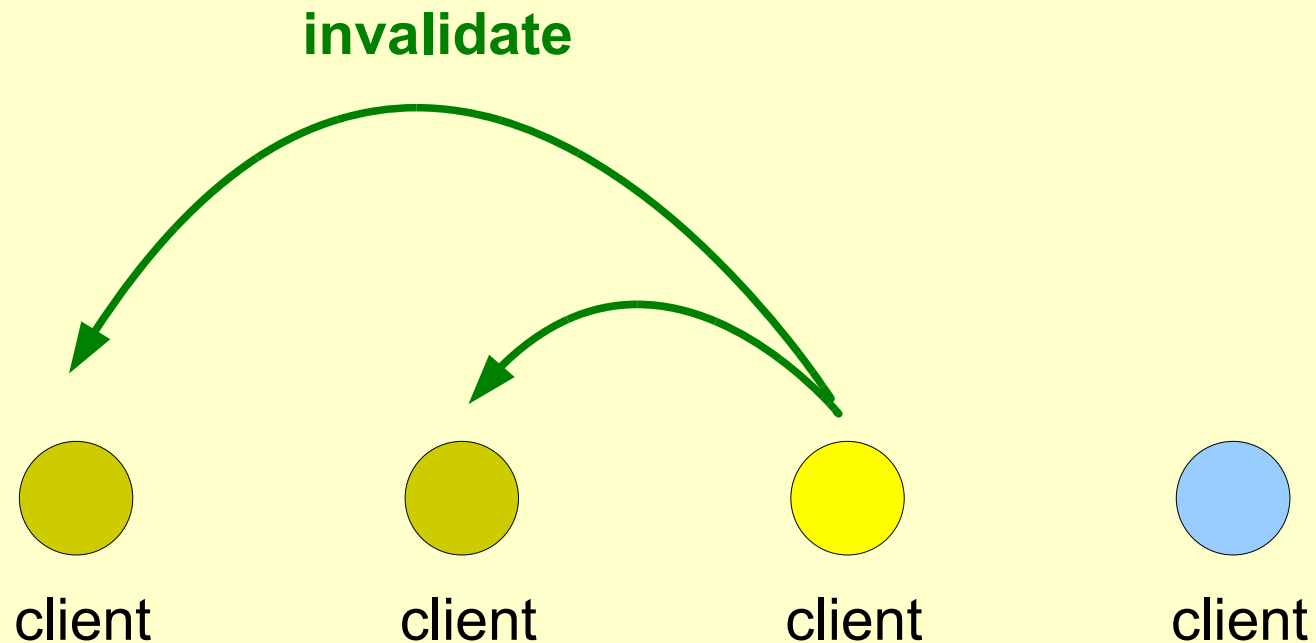


čtení



Sdílení dat

Mobilita a replikace

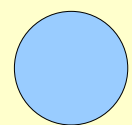


zápis

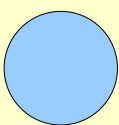


Sdílení dat

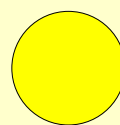
Mobilita a replikace



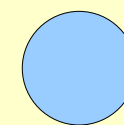
client



client



client



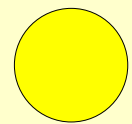
client



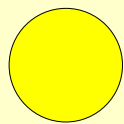
Replikace dat

Plná replikace (read one / write all)

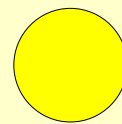
čtení
(lokálně)



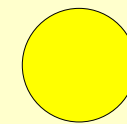
client



client



client

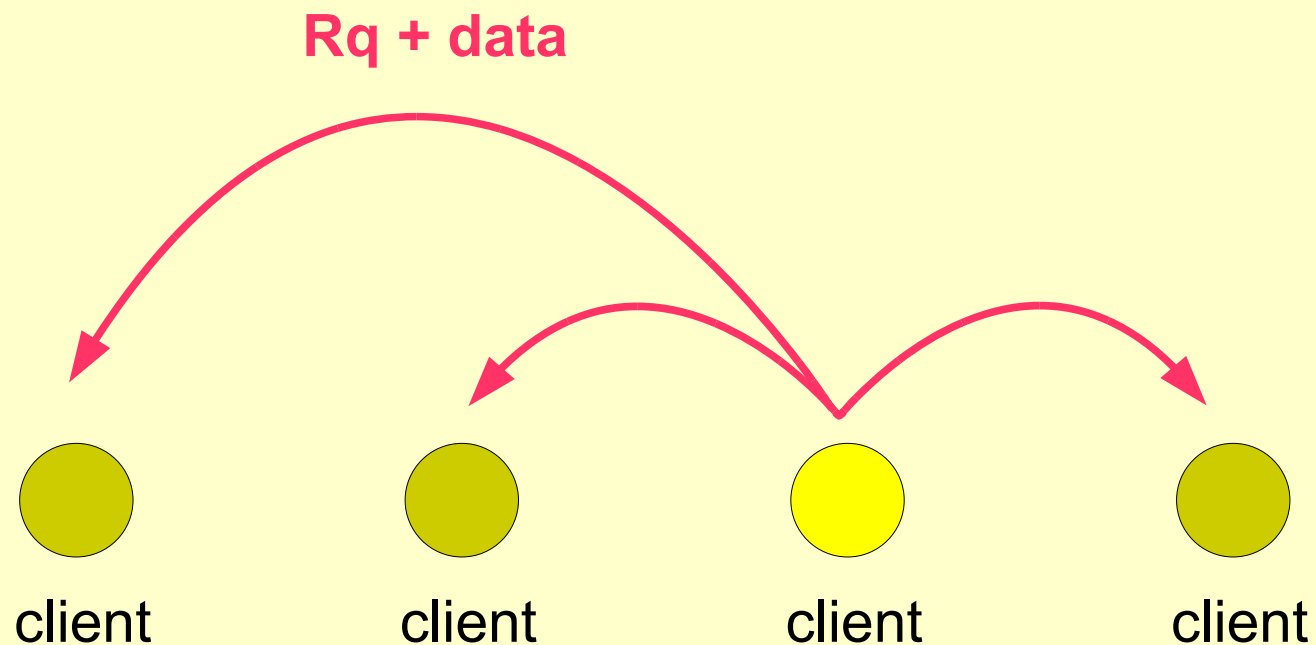


client



Replikace dat

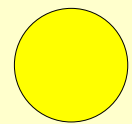
Plná replikace



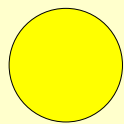
Replikace dat

Plná replikace (synchronizátor)

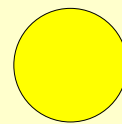
čtení
(lokálně)



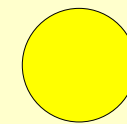
client



client



client

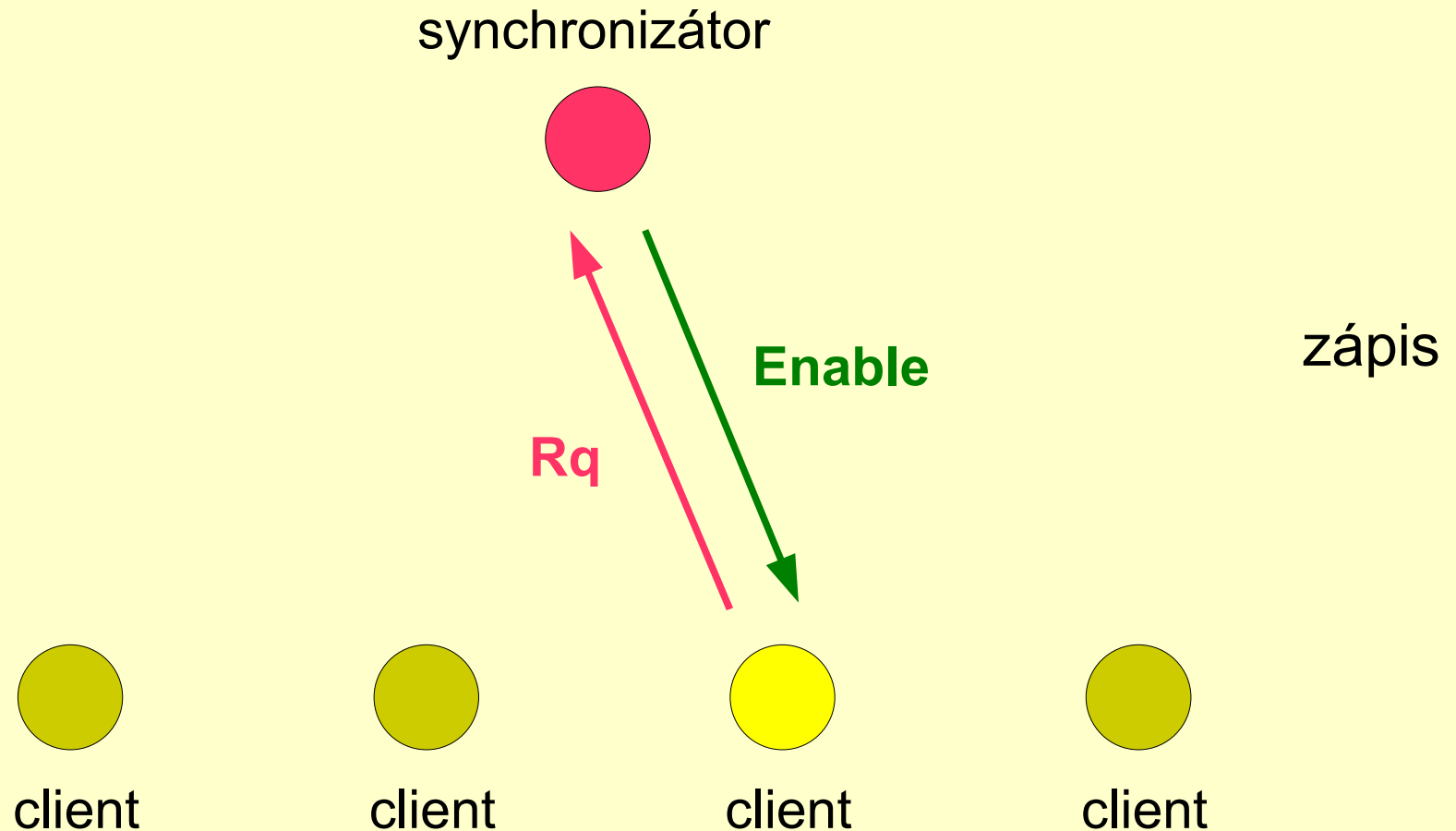


client



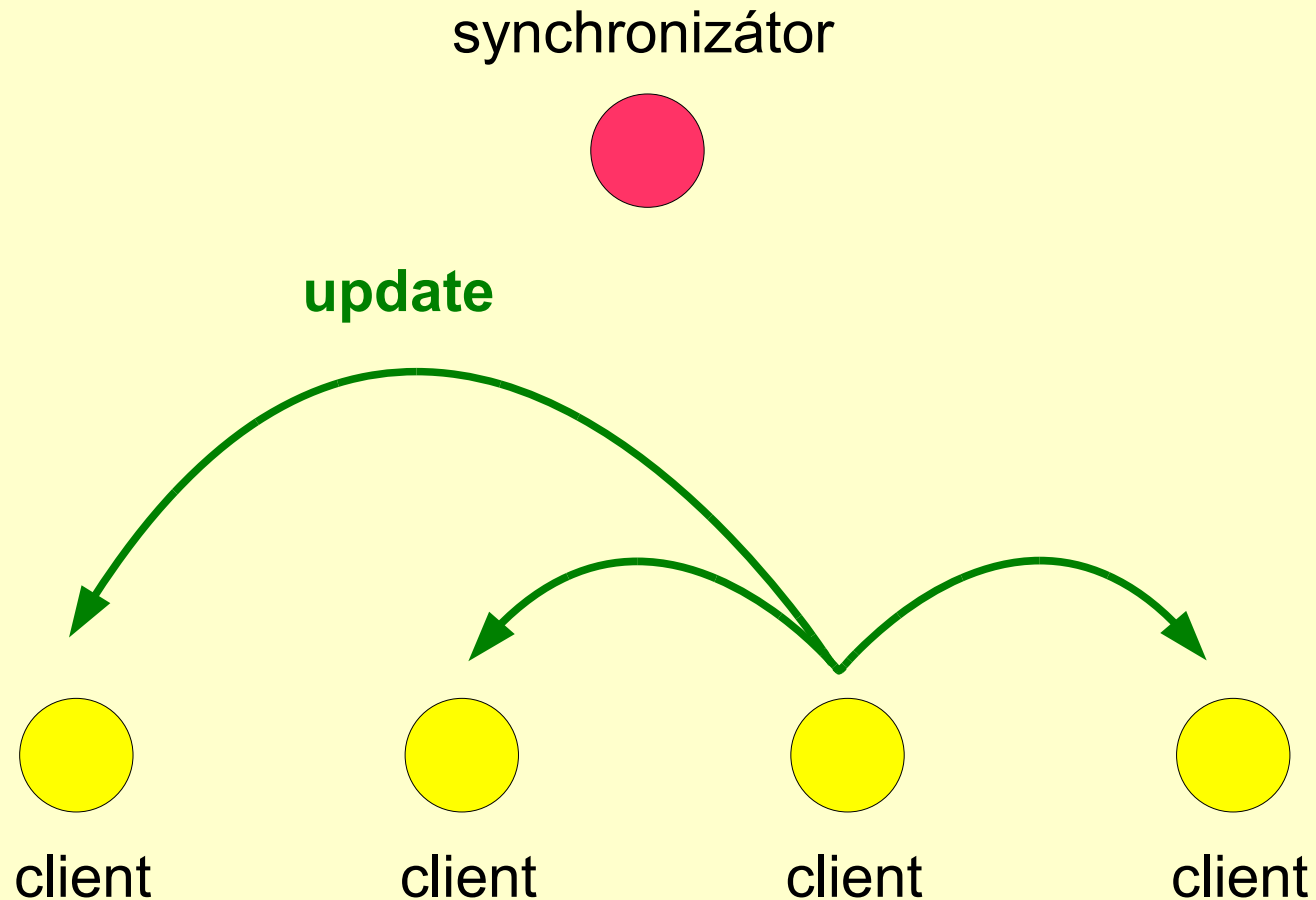
Replikace dat

Plná replikace



Replikace dat

Plná replikace



Distribuovaná sdílená paměť

Linda

tuple space

out

```
out(„petr“,31,true)
```

read

```
out(„petr“,var age,var married)
```

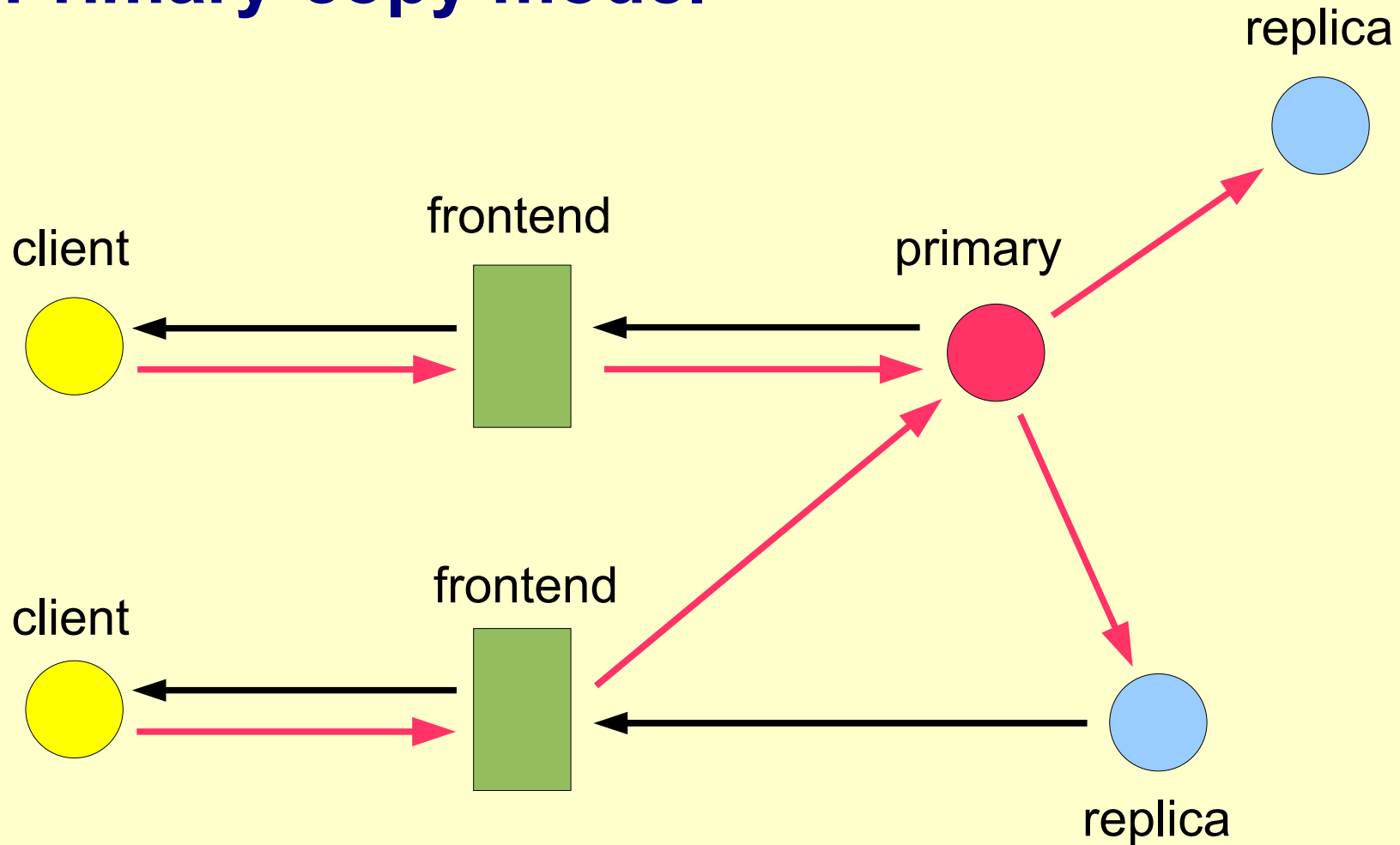
in

```
in(„petr“,var age,true)
```



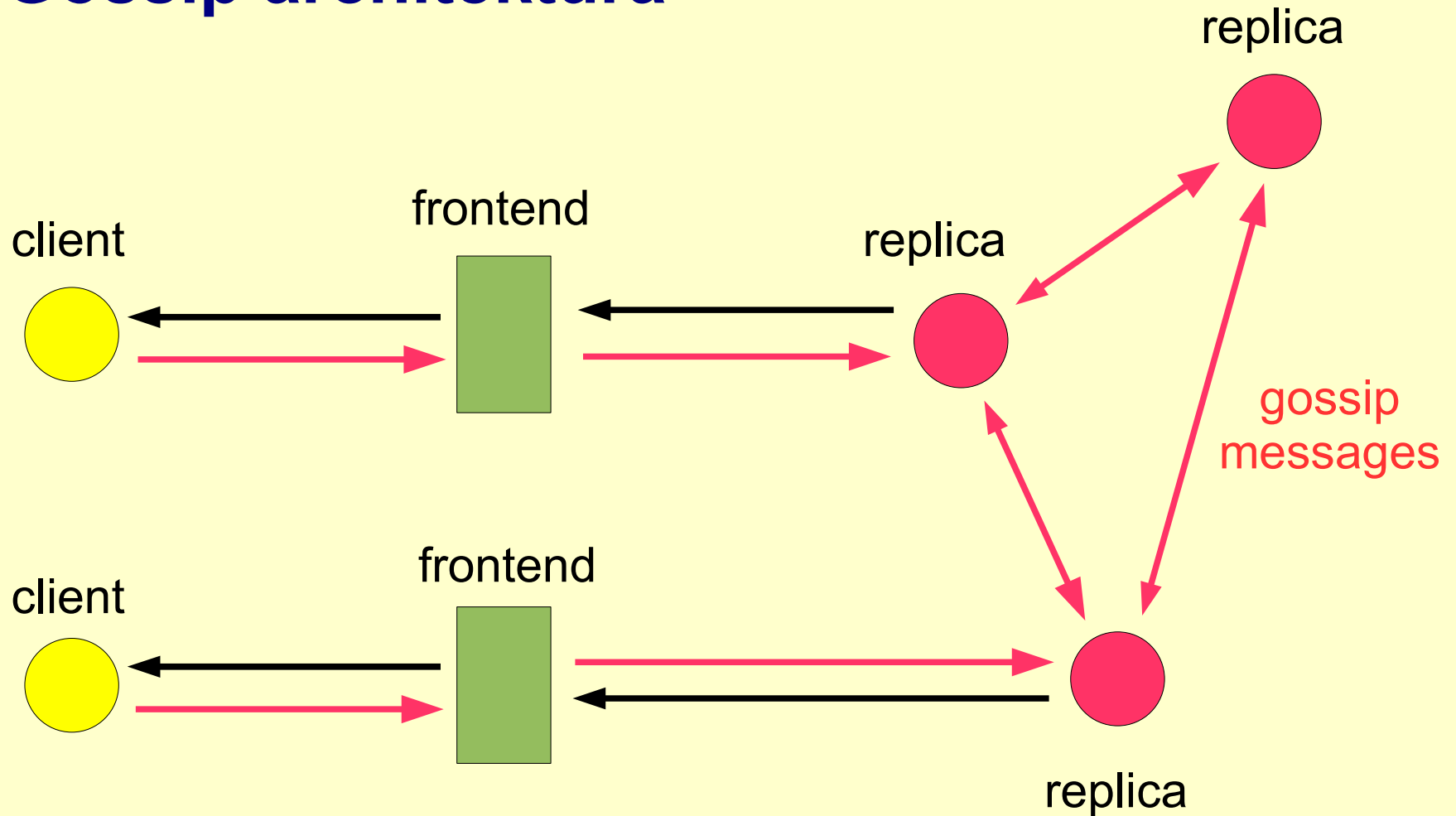
Replikace dat

Primary-copy model



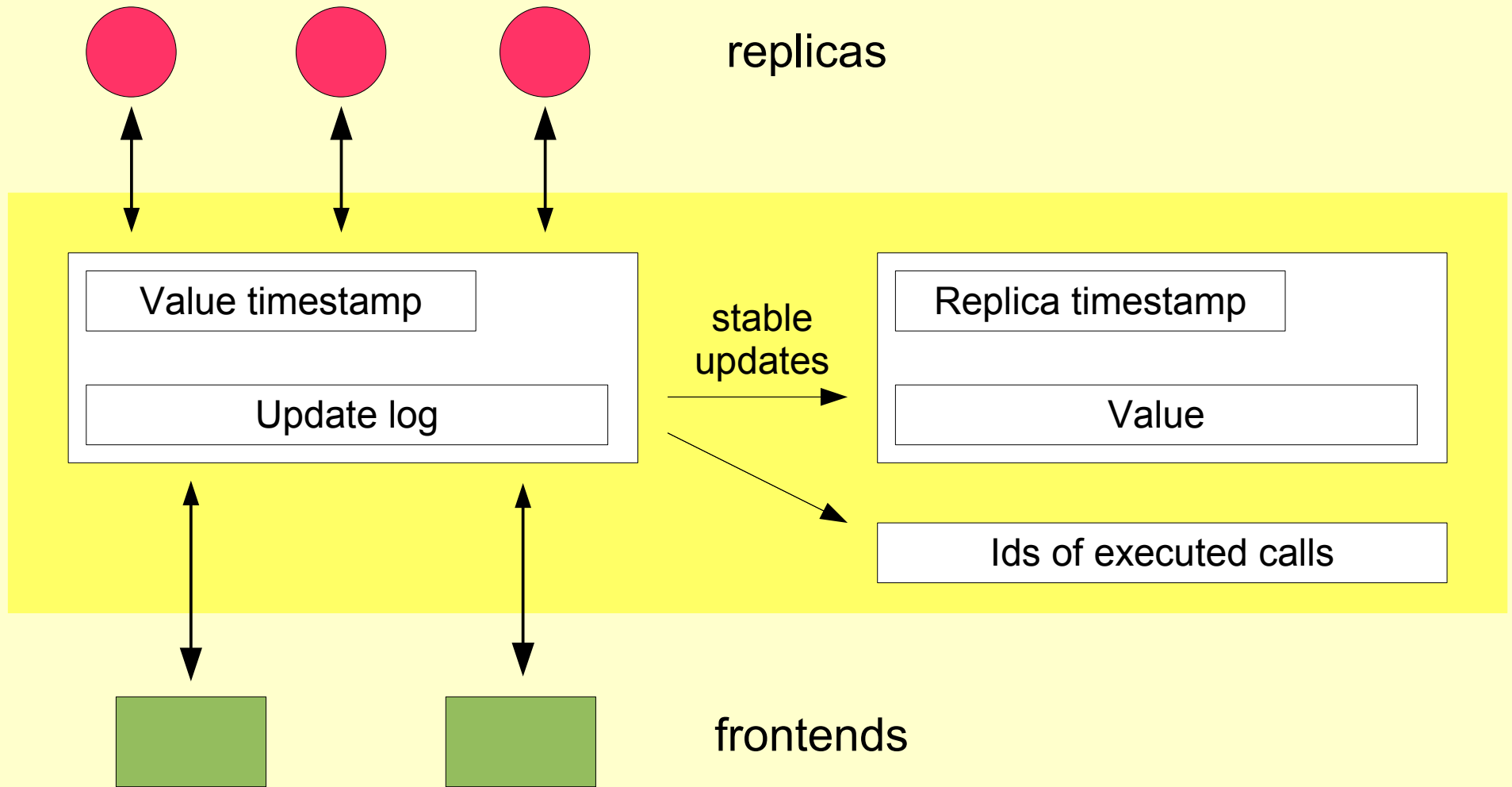
Replikace dat

Gossip architektura



Replikace dat

Gossip architektura



Replikace dat

Gossip architektura

