

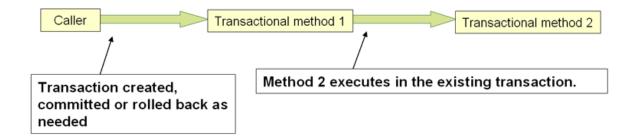
SPRING TRANSACTIONS

ADVANCED CONCEPTS

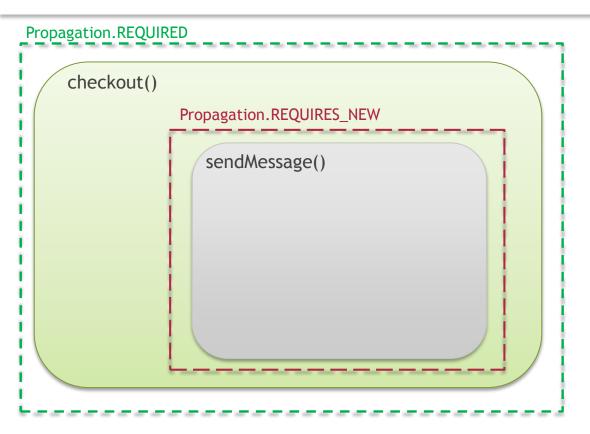
MARCH, 2015

Transaction propagation

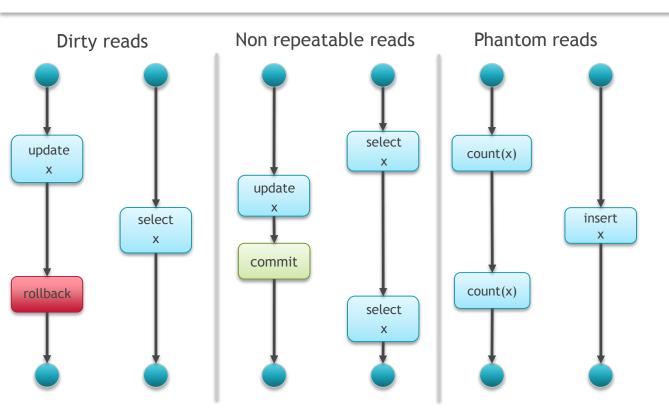
REQUIRED Transaction



Transaction propagation issues



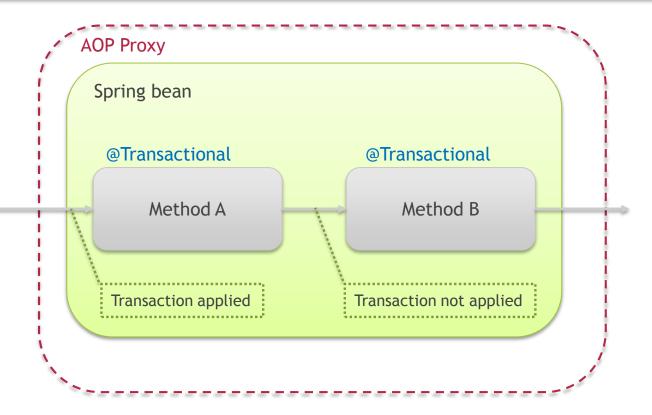
Transaction isolation



Consistency vs Concurrency

High	Isolation level	Phenomena allowed	Low
	Read uncommitted	Dirty read Non Repeatable Read Phantoms	
Concurrency	Read committed	Non Repeatable Read Phantoms	Consistency
Con	Repeatable read	Phantoms	
	Serializable	No	
Low			High

Local transactional calls



Transactional methods visibility

```
// this one will work
@Transactional(readOnly = false, propagation = Propagation.REQUIRED)
 public void updateFoo(Foo foo) { // do something }
// this one will be ignored
@Transactional(readOnly = false, propagation = Propagation.REQUIRED)
 protected void updateFoo2(Foo foo) { // do something }
// this one will be ignored
@Transactional(readOnly = false, propagation = Propagation.REQUIRED)
 void updateFoo3(Foo foo) { //do something }
// this one will be ignored
@Transactional(readOnly = false, propagation = Propagation.REQUIRED)
 private void updateFoo4(Foo foo) { //do something }
```



THANK YOU!

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