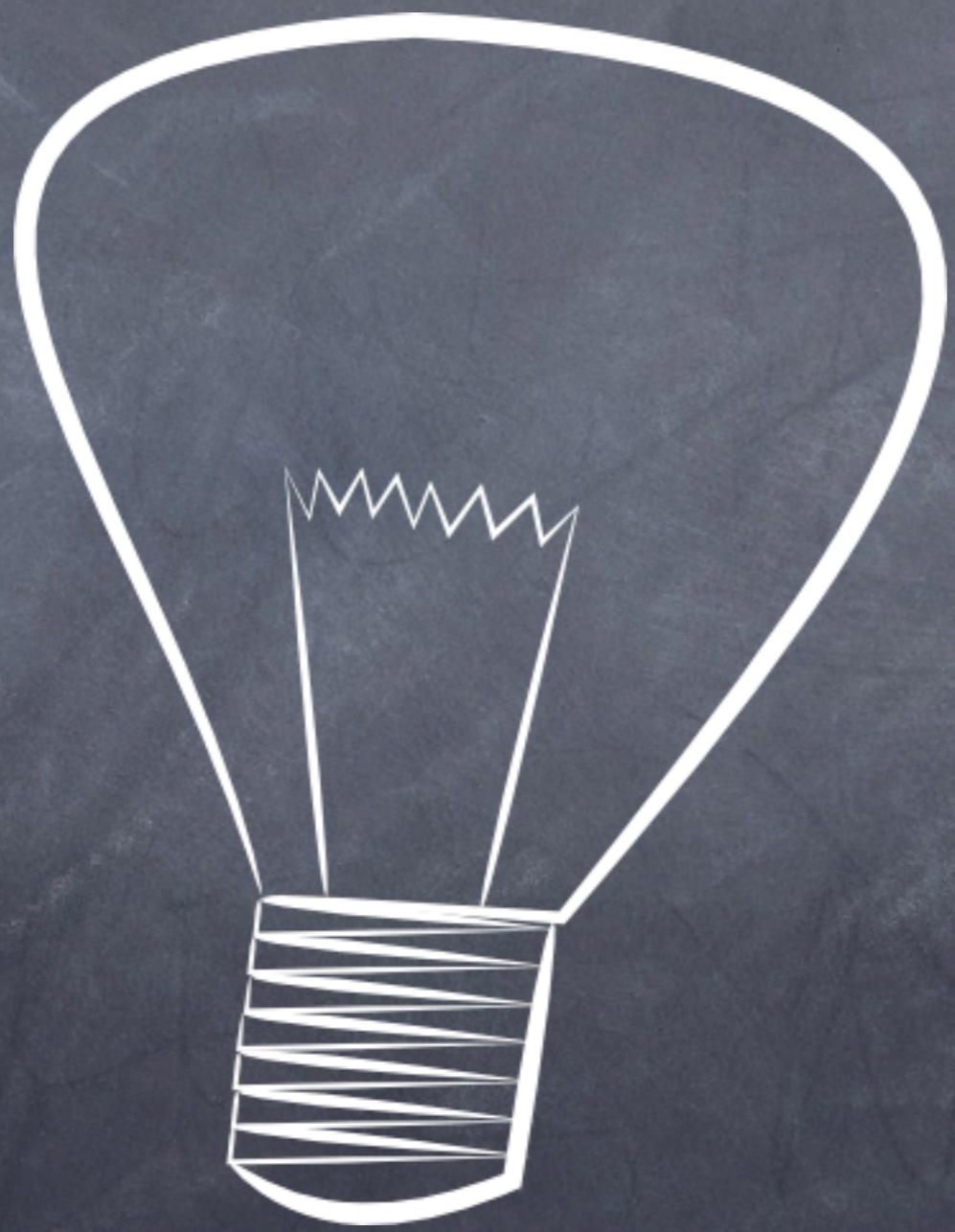
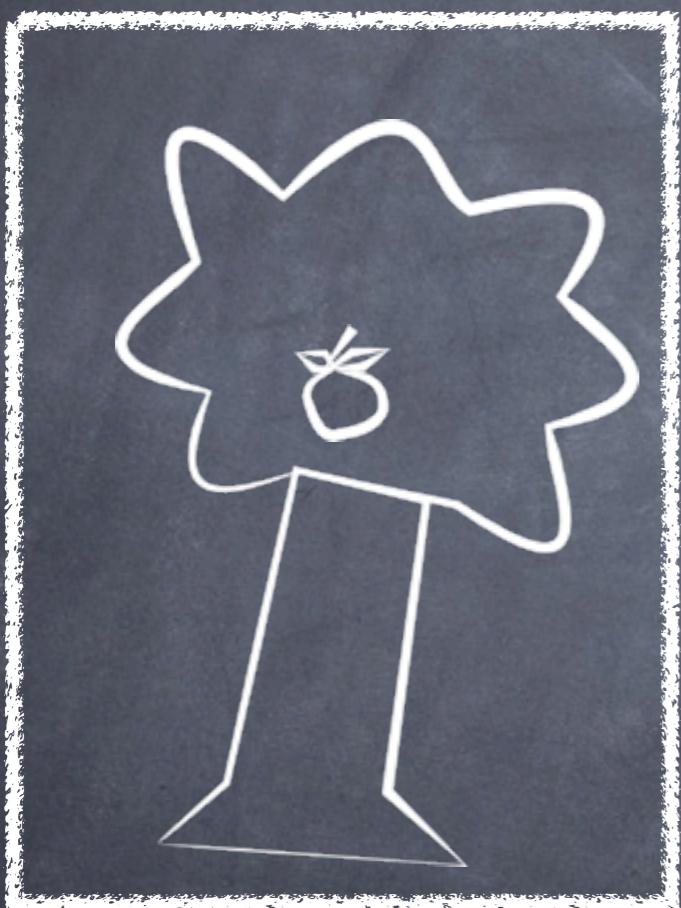


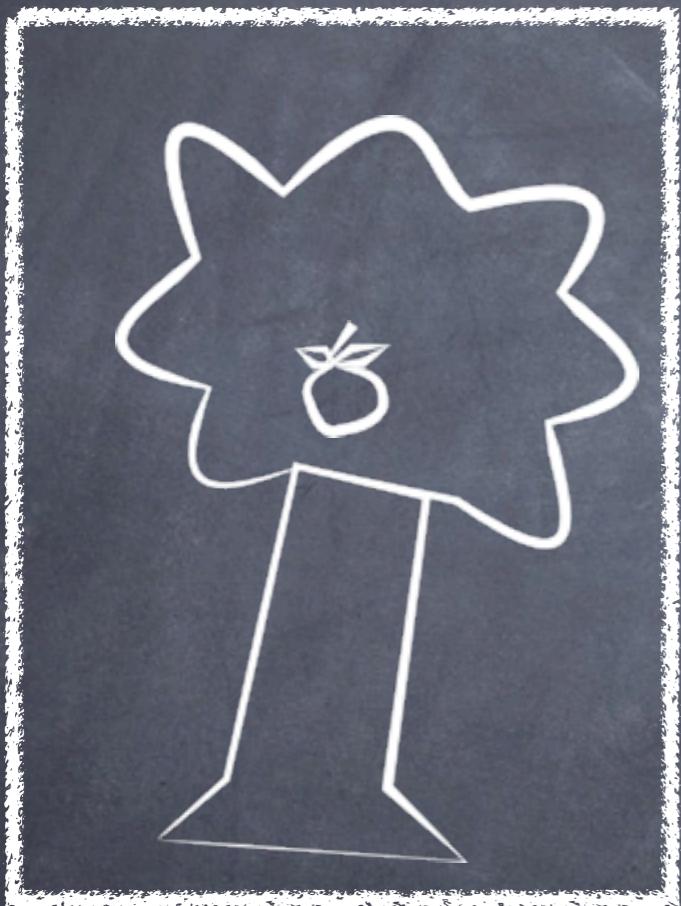
COMPLEX EVENT PROCESSING

Jochen Mader & Christoph Emmersberger









Zeit



Implementierungsmöglichkeiten von CEP

Implementierungsmöglichkeiten von CEP

Custom Lösungen

Implementierungsmöglichkeiten von CEP

Custom Lösungen

Datenbanken

Implementierungsmöglichkeiten von CEP

Custom Lösungen

Datenbanken

nicht-RETE-Algorithmen

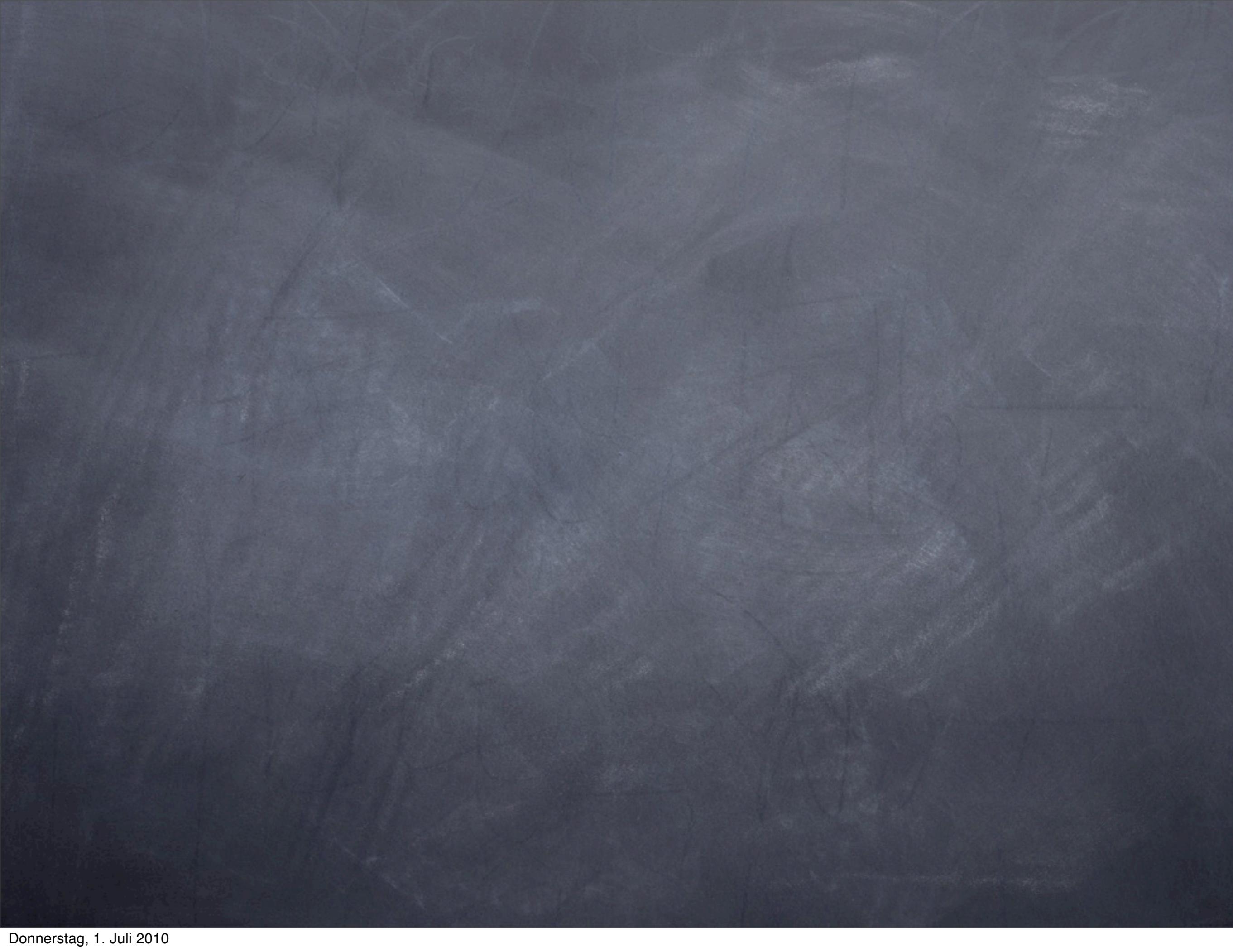
Implementierungsmöglichkeiten von CEP

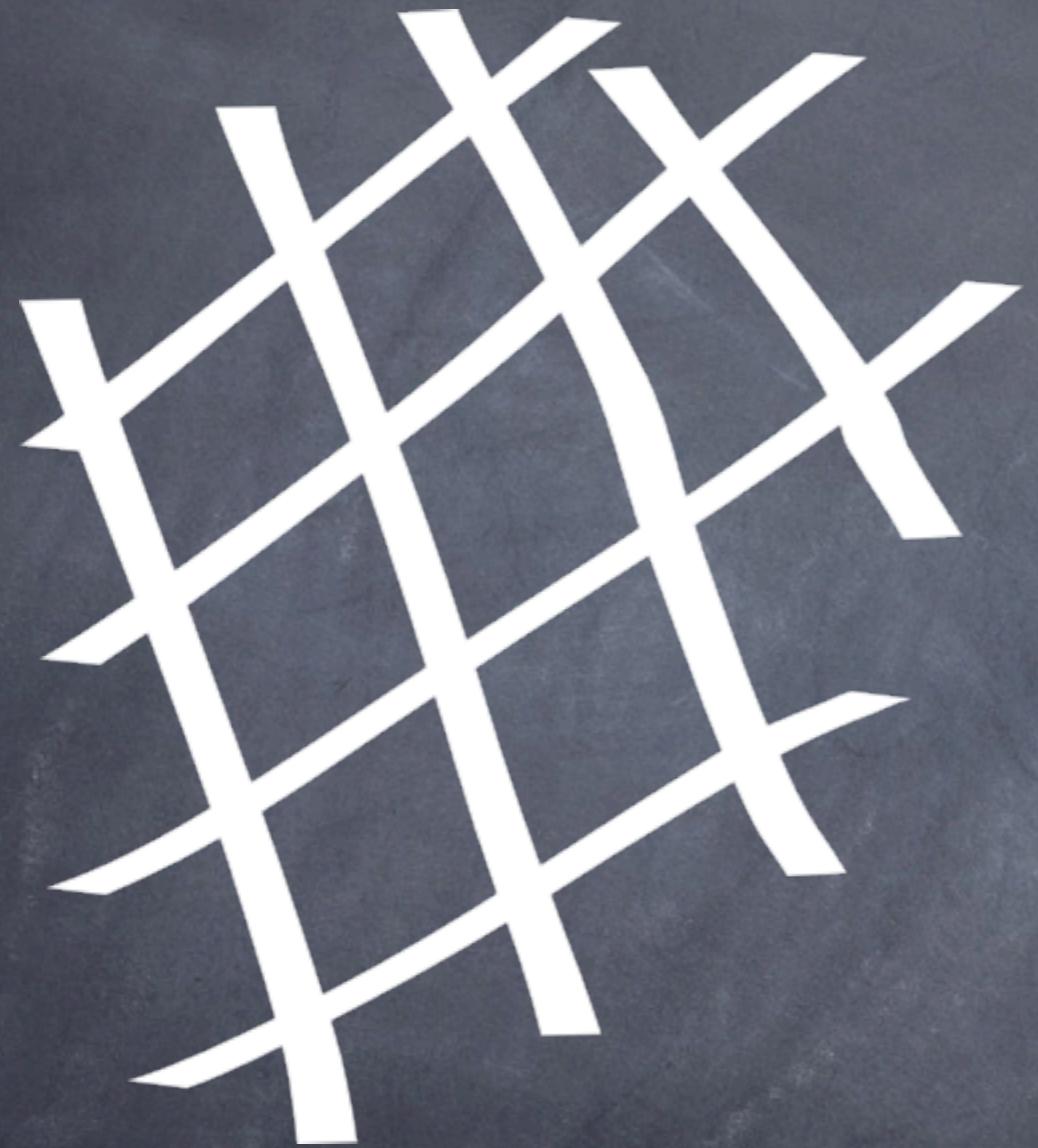
Custom Lösungen

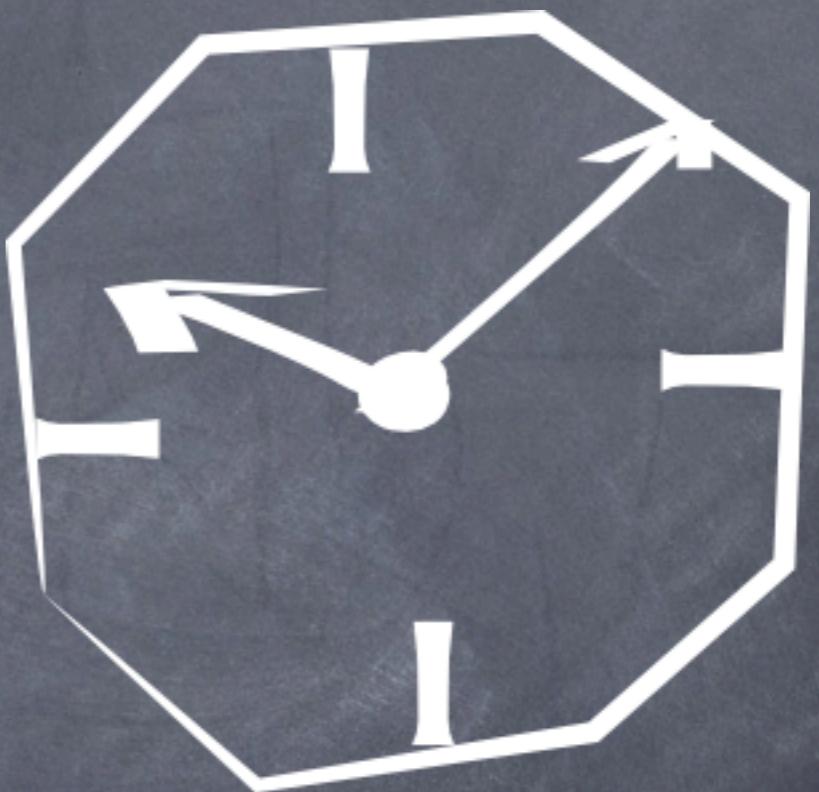
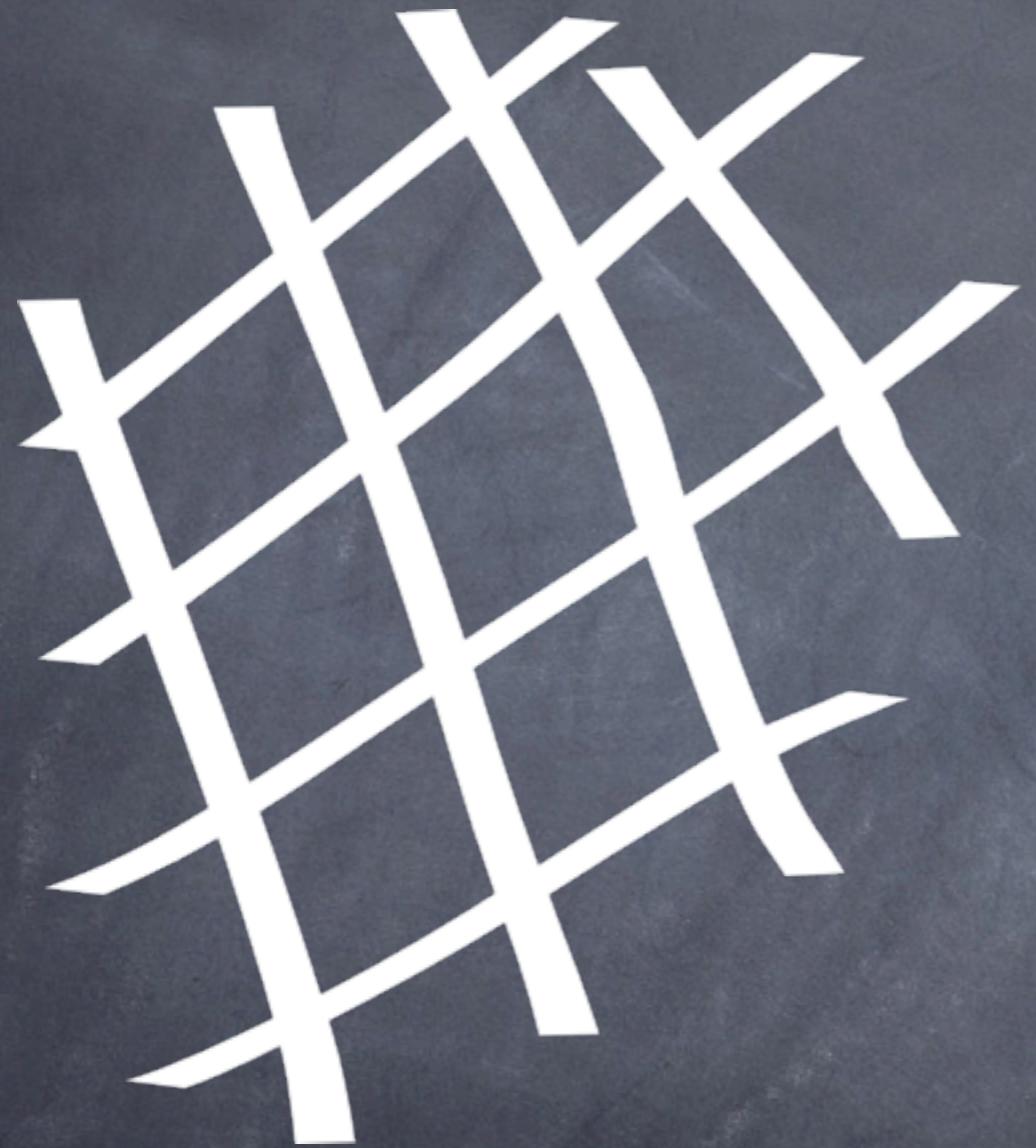
Datenbanken

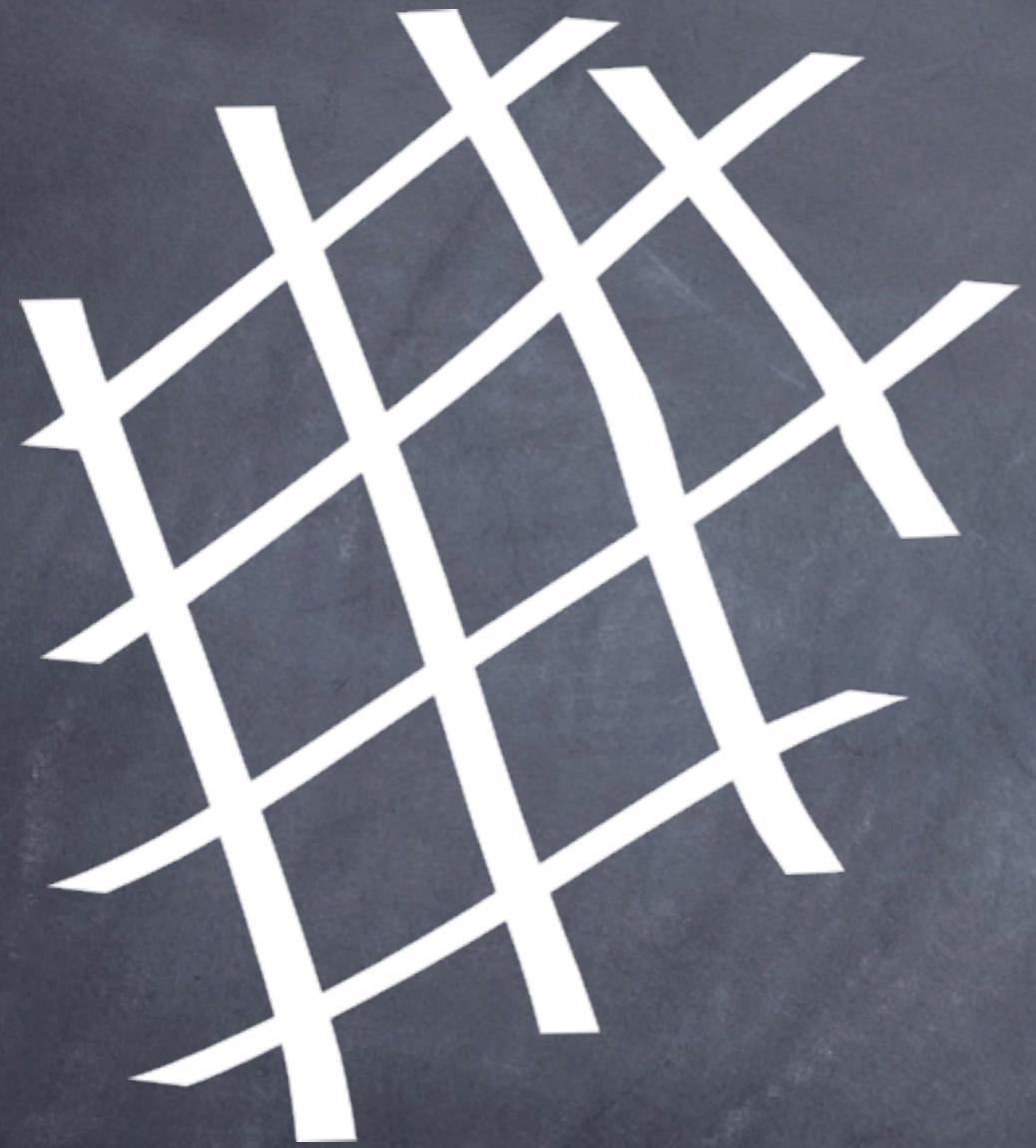
nicht-RETE-Algorithmen

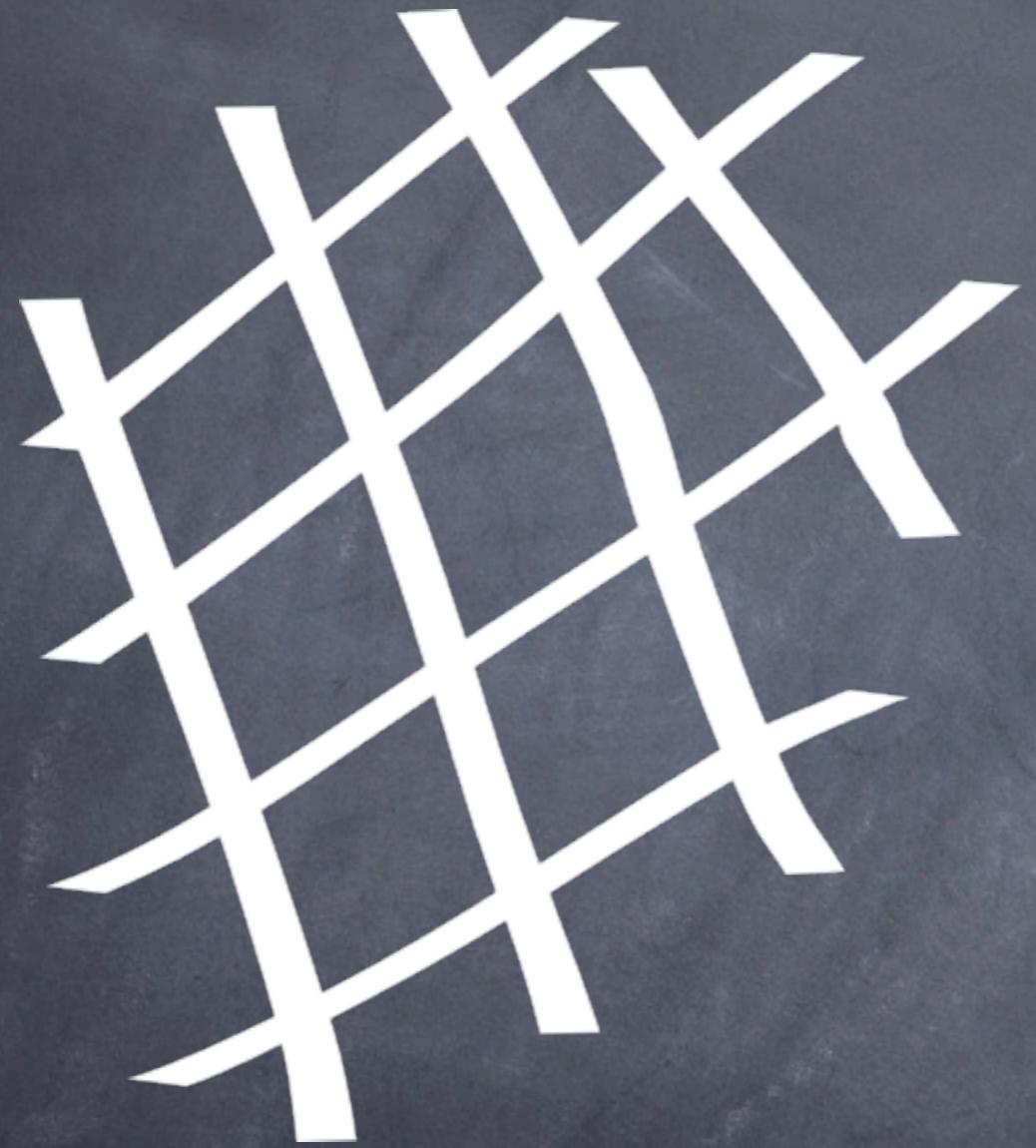
RETE-basierte Lösungen

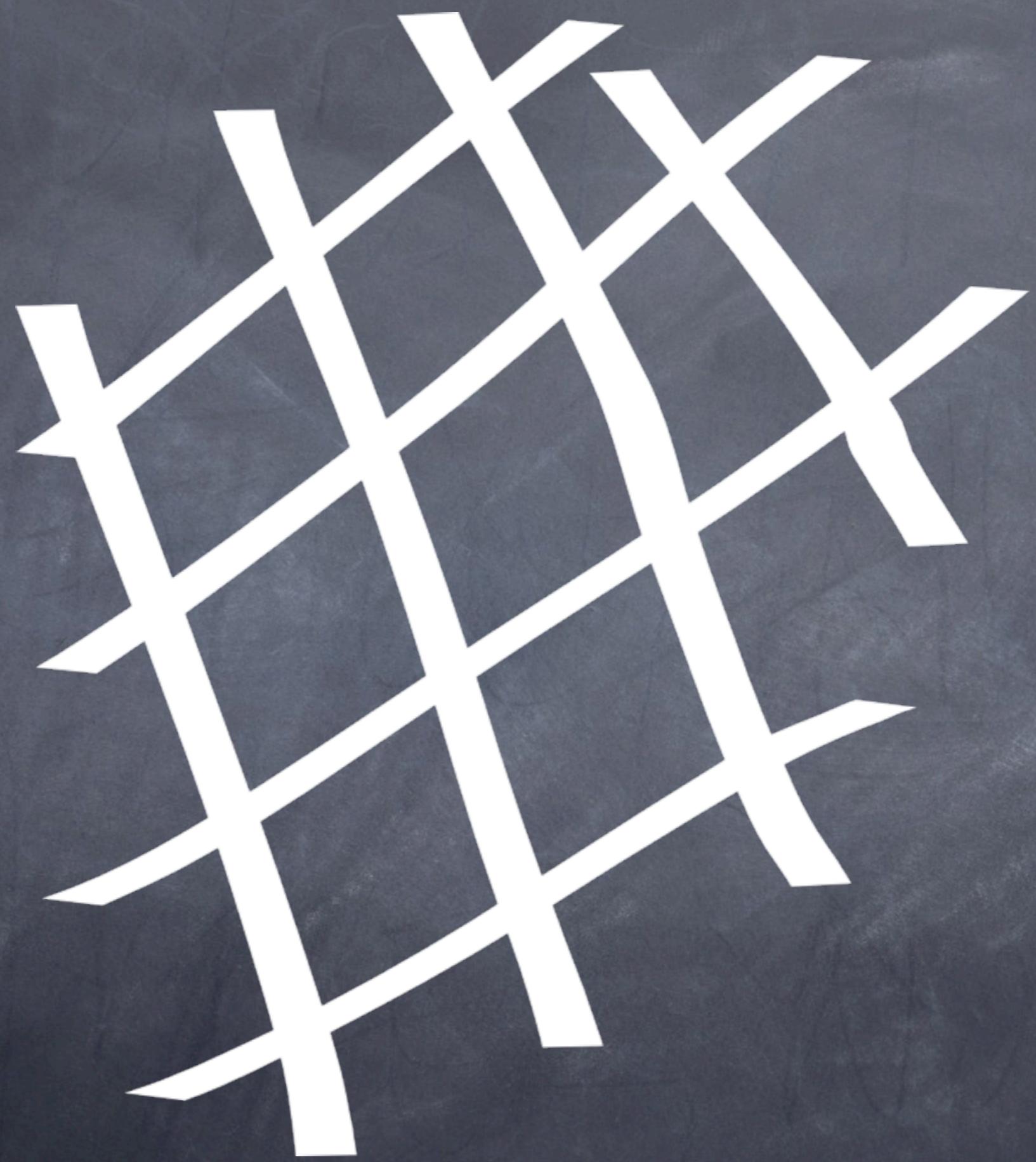


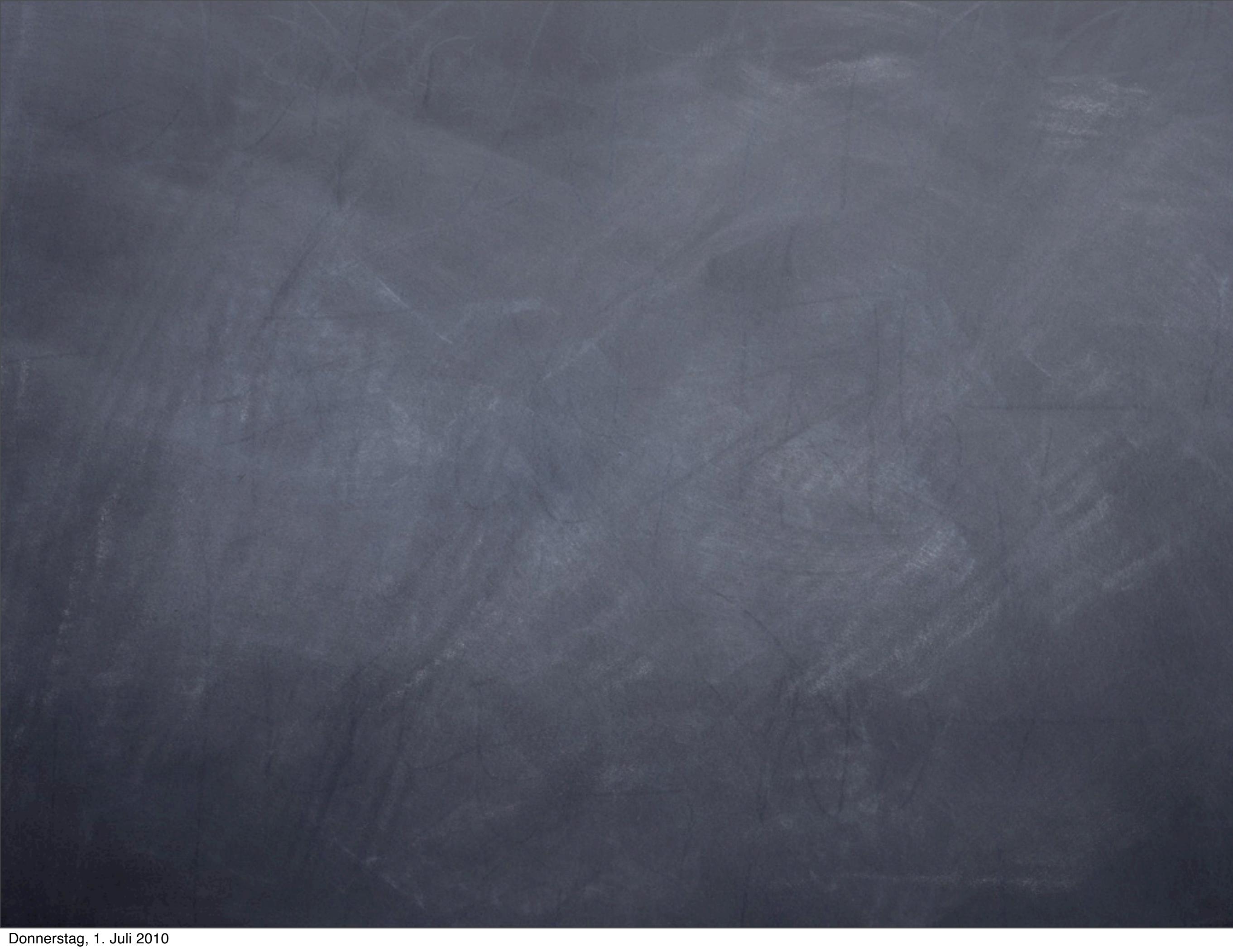


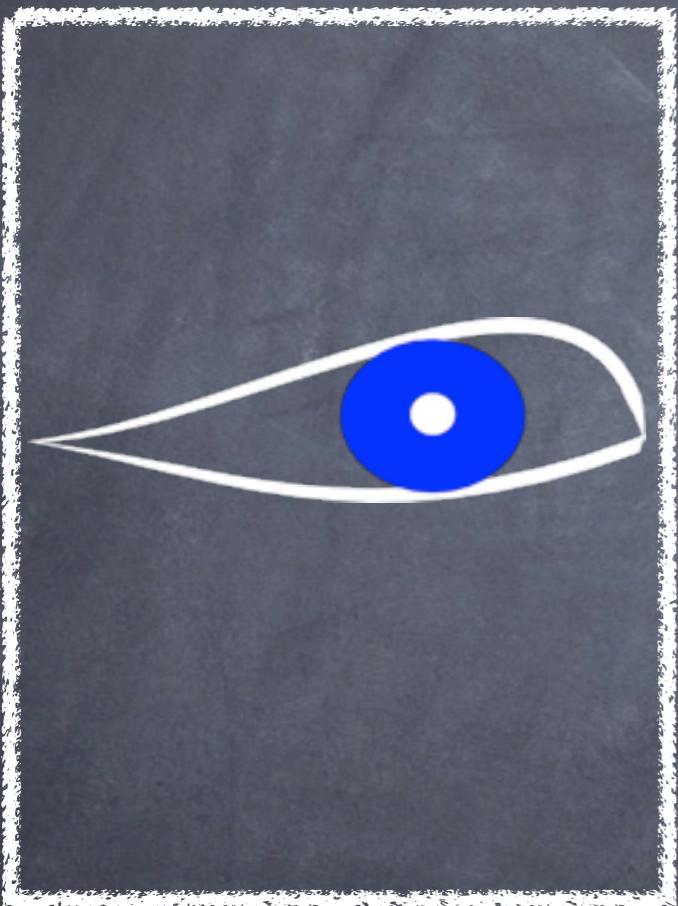




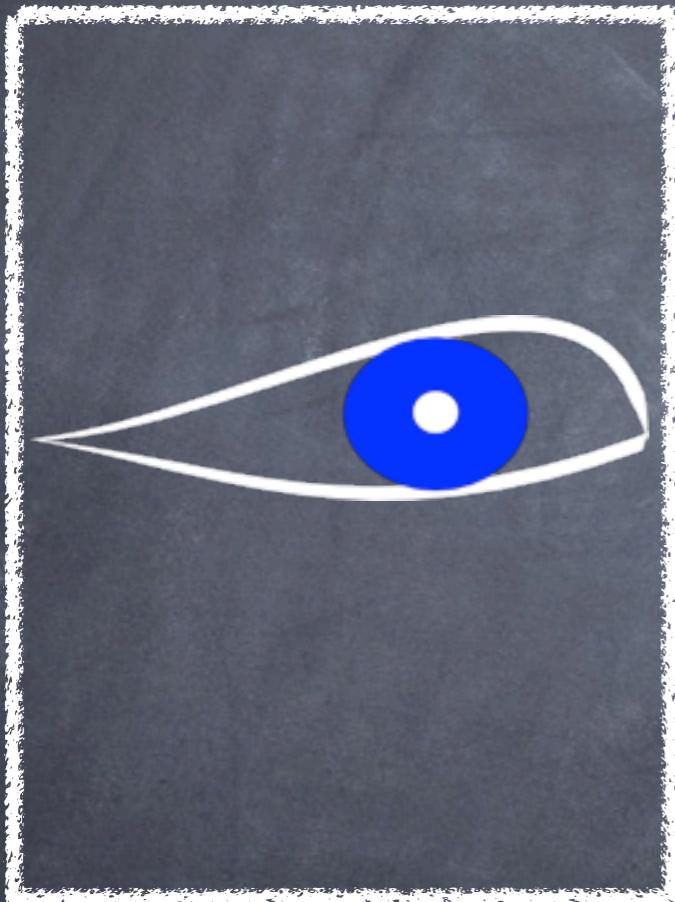








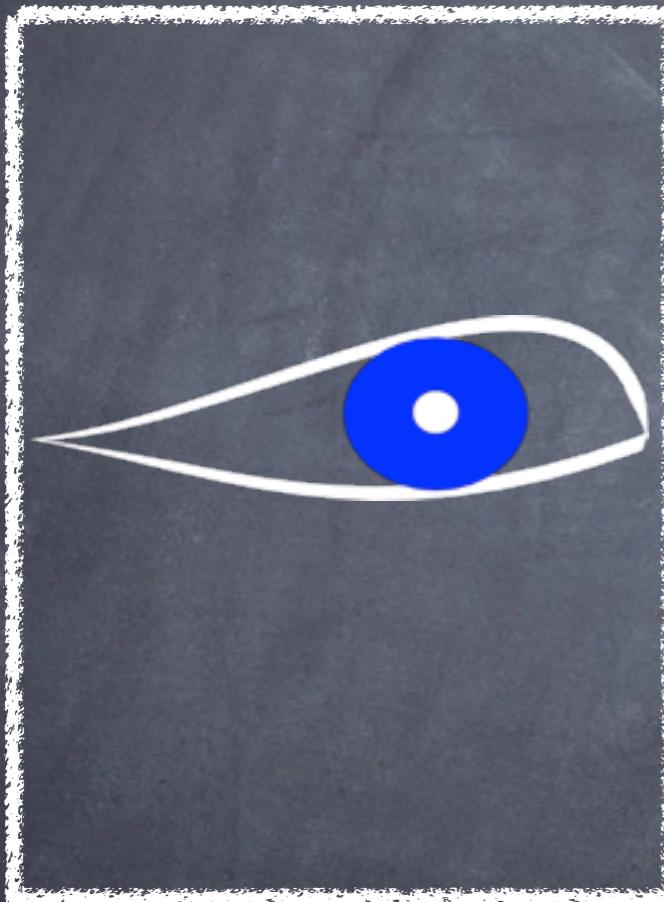
erkennen



erkennen

Wenn es
regnet wird
der Boden
nass

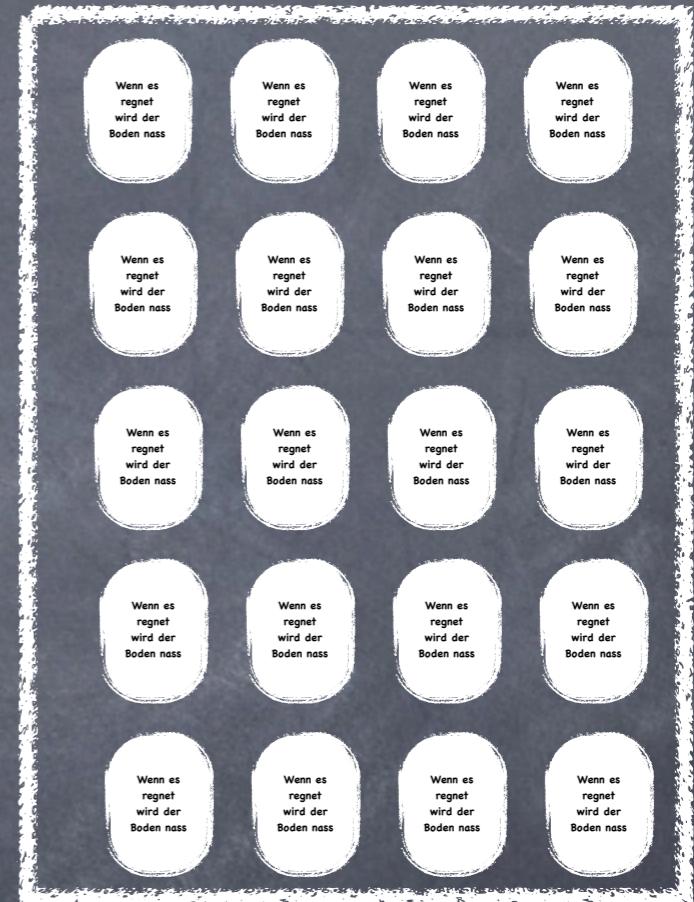
archivieren



erkennen

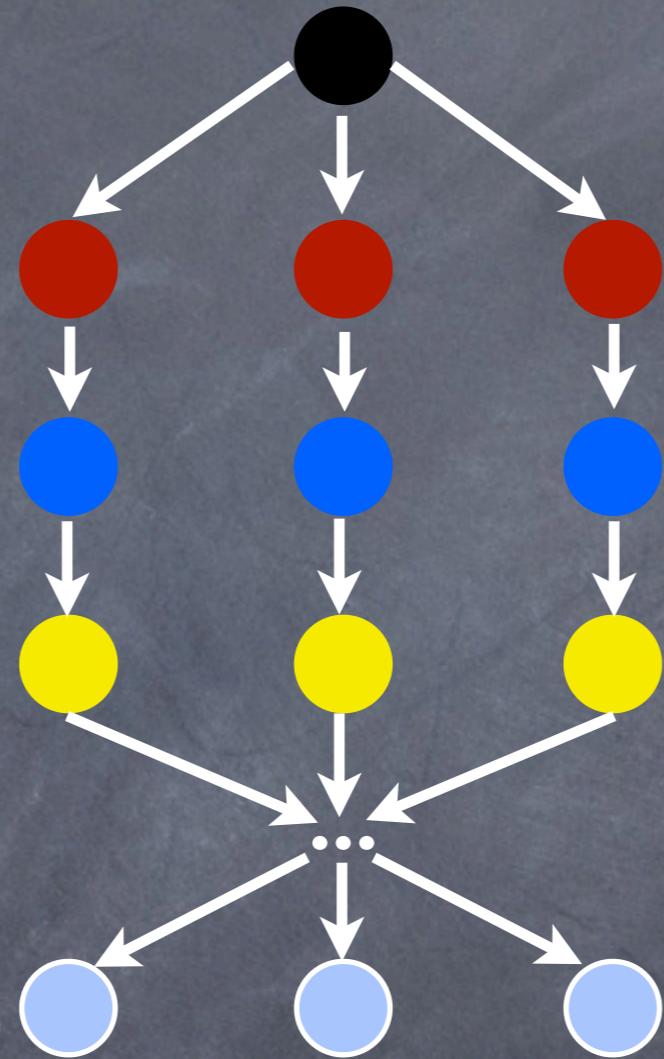


archivieren



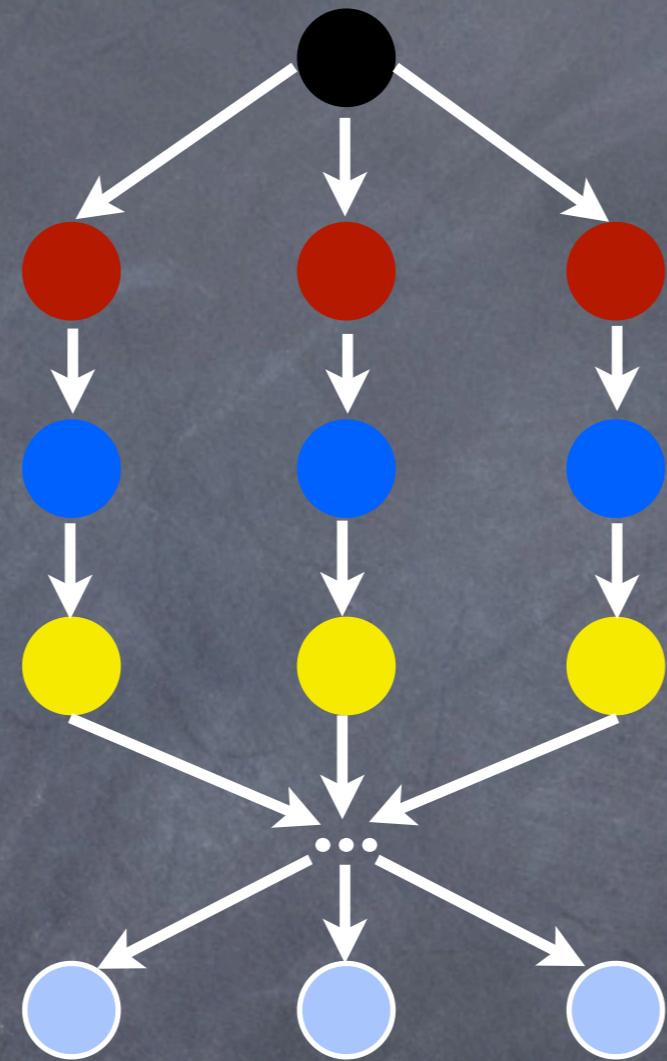
auswerten

RETE

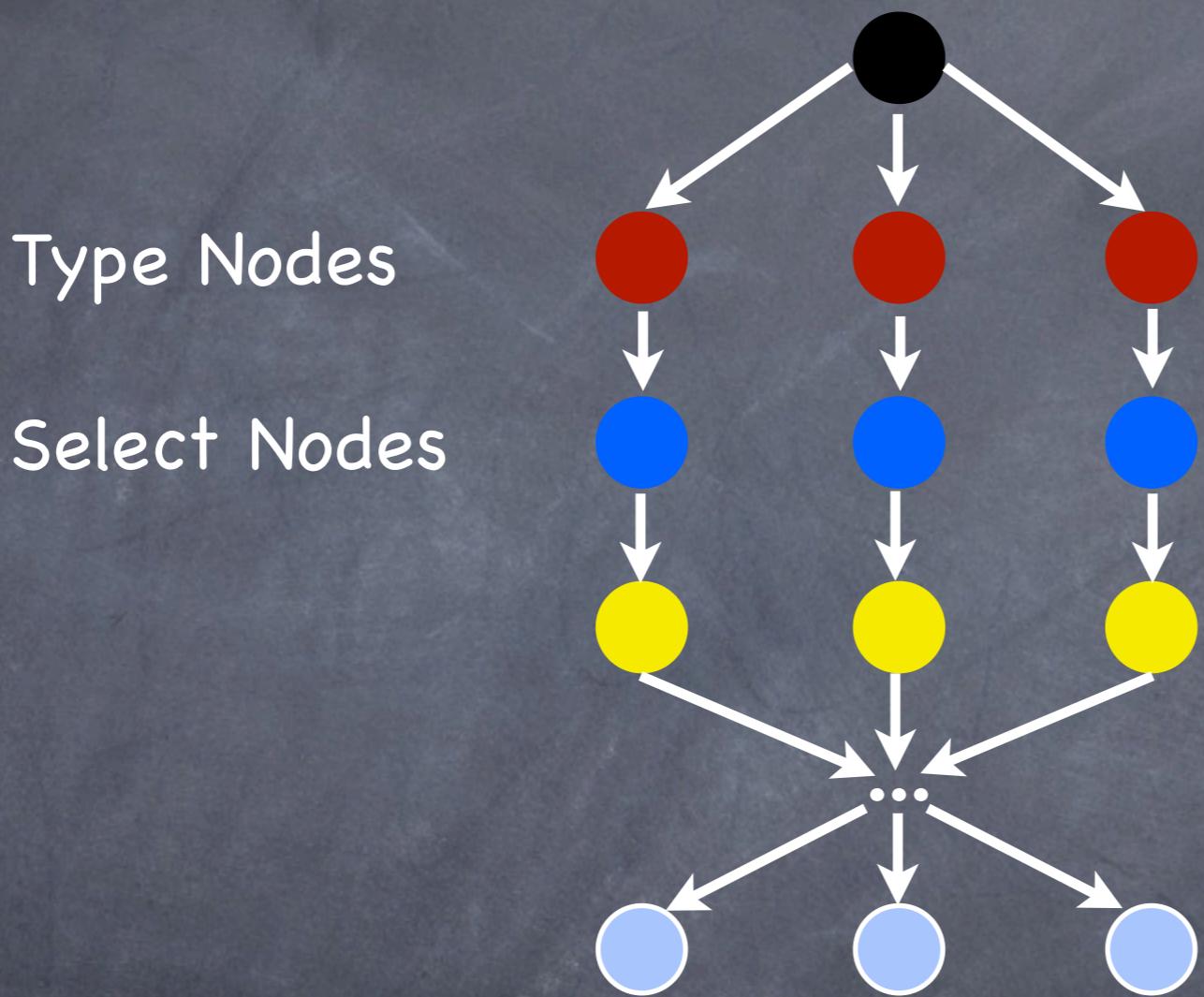


RETE

Type Nodes



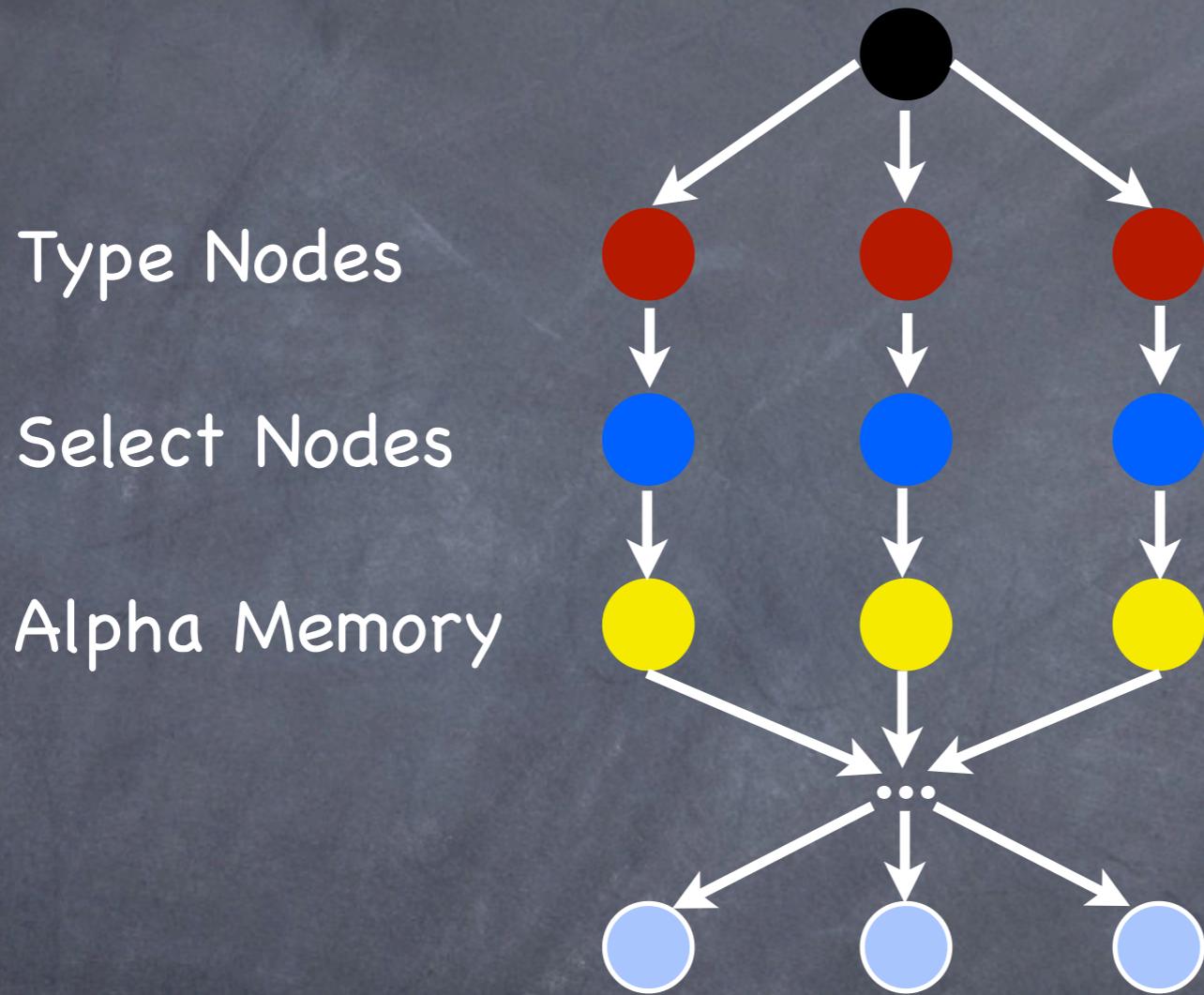
RETE



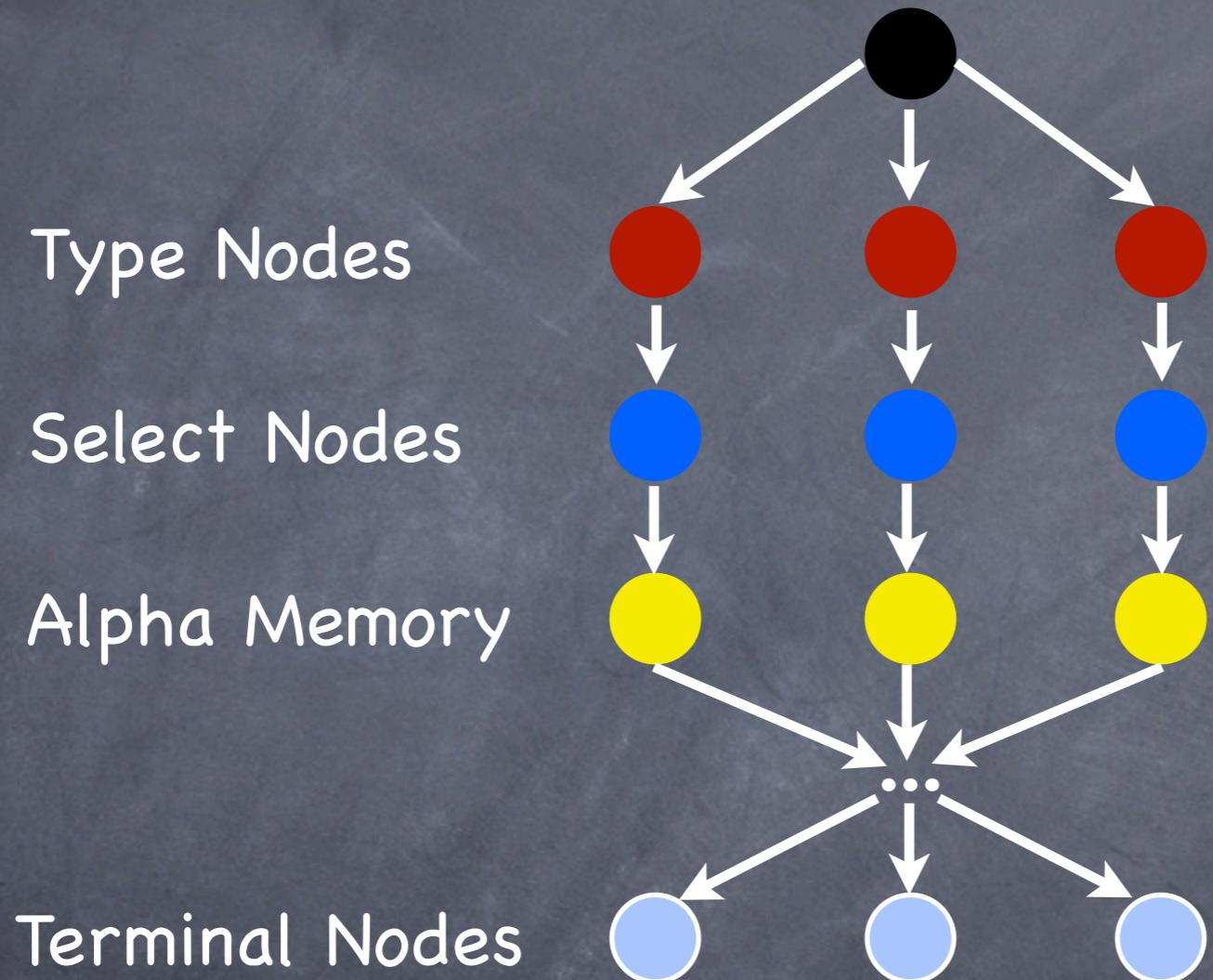
Type Nodes

Select Nodes

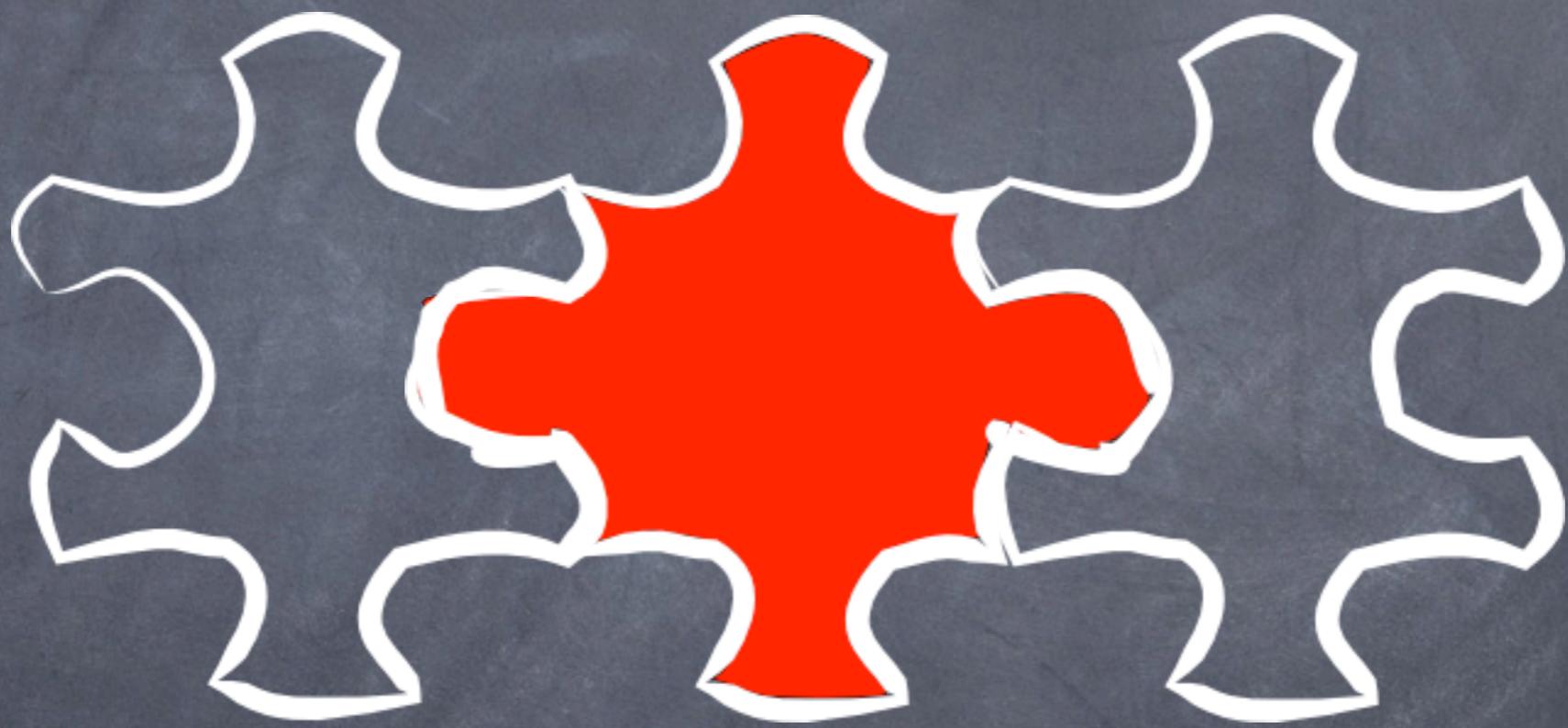
RETE

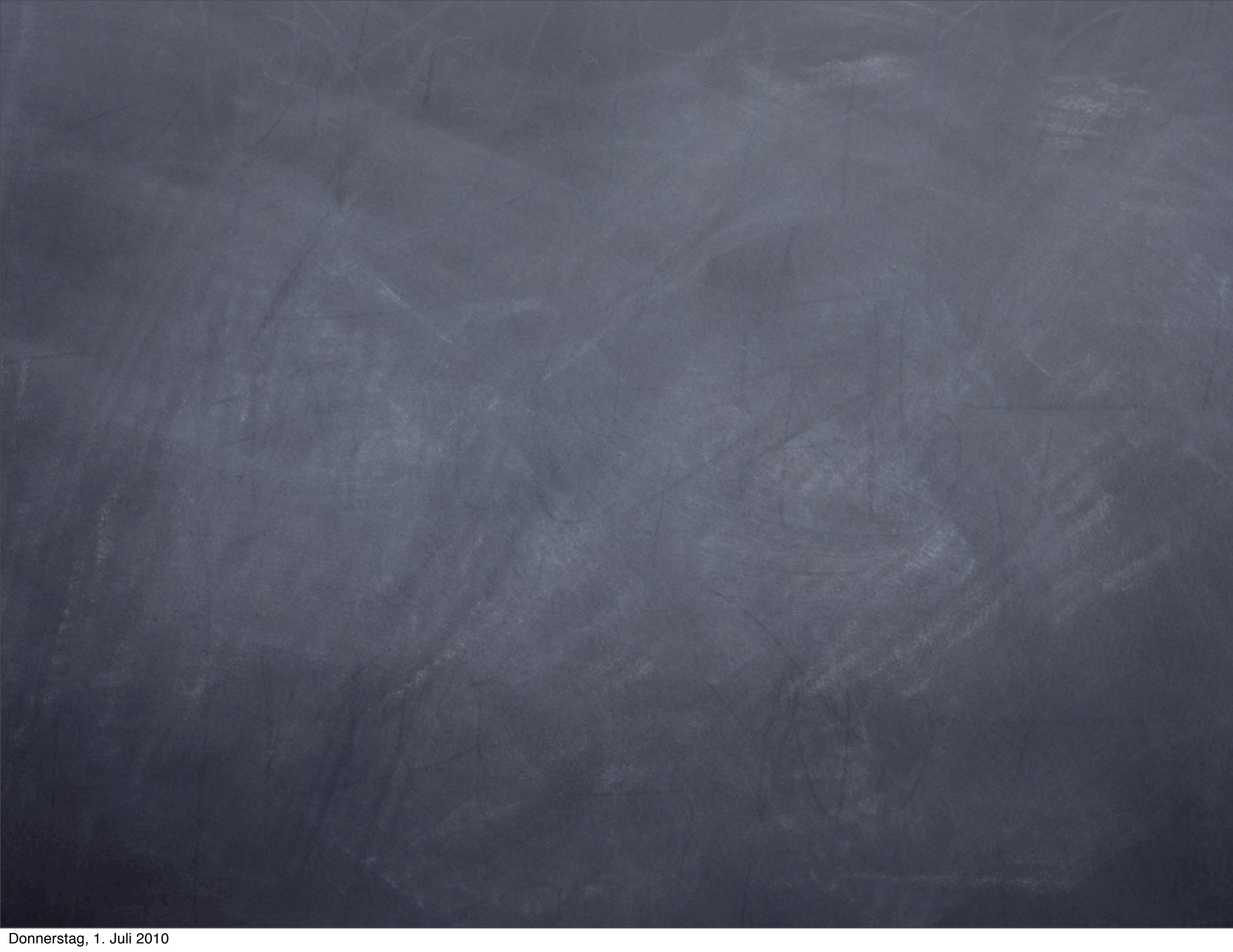


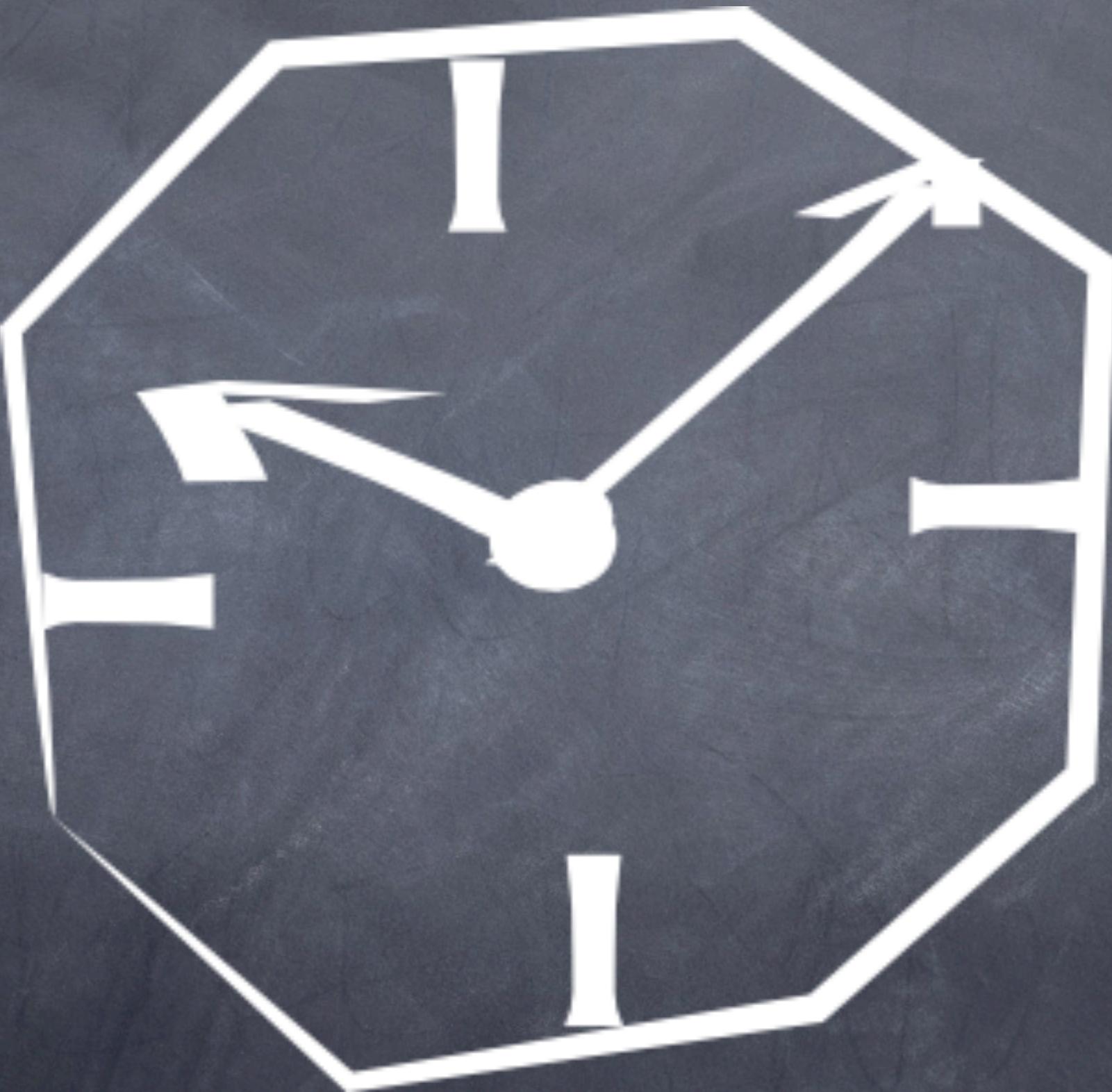
RETE



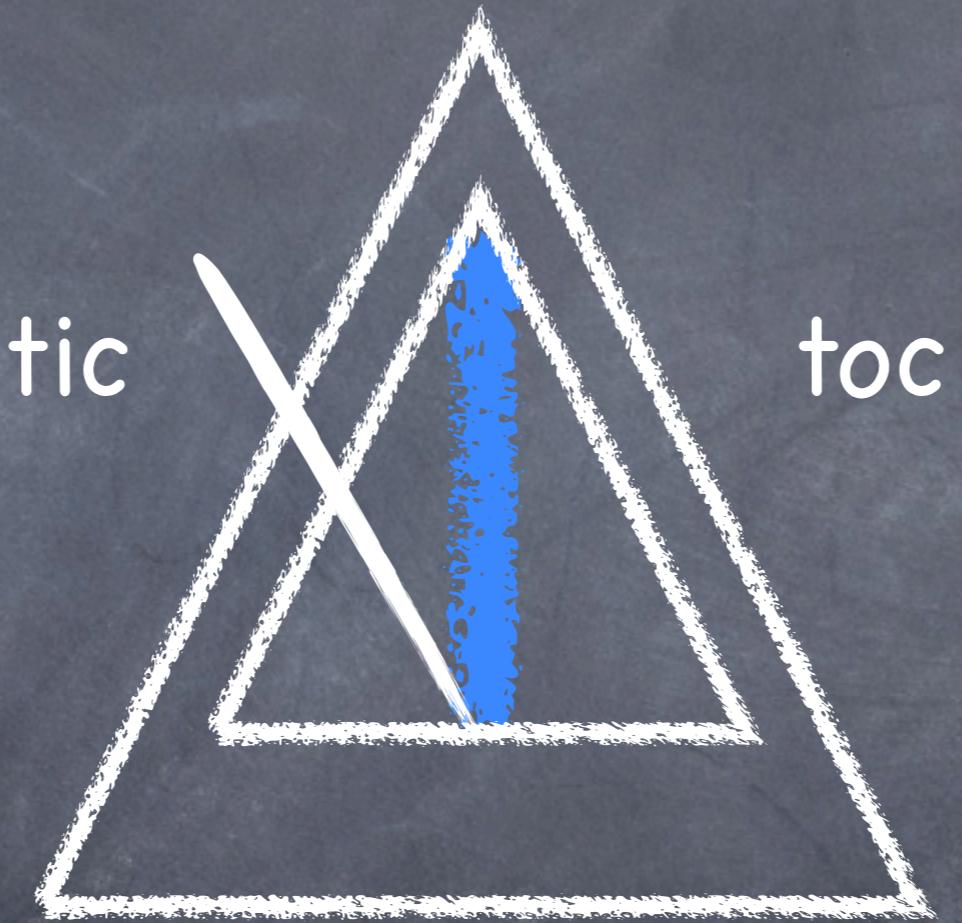












Begrifflichkeiten

Low Level Events



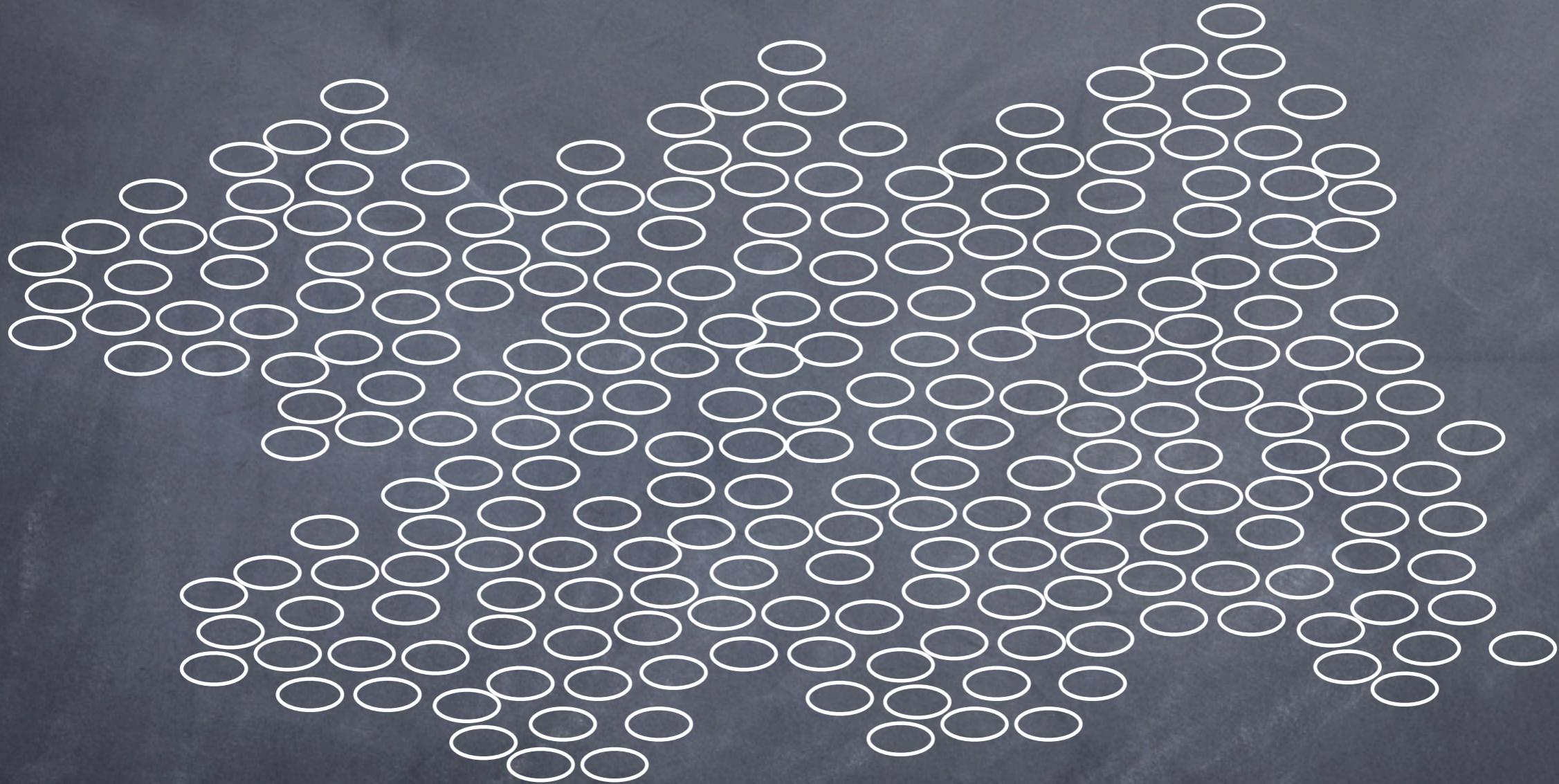
```
java.lang.IllegalStateException: BeanFactory not initialized or already closed -  
call 'refresh' before accessing beans via the ApplicationContext
```

```
at org.springframework.context.support.AbstractRefreshableApplicationContext.getBeanFactory  
at org.springframework.context.support.AbstractApplicationContext.getBeanNamesForType  
at org.jbpm.pvm.internal.env.SpringContext.get(SpringContext.java:59)  
at org.jbpm.pvm.internal.env.BasicEnvironment.get(BasicEnvironment.java:139)  
at org.jbpm.pvm.internal.env.BasicEnvironment.get(BasicEnvironment.java:130)  
at org.jbpm.pvm.internal.env.EnvironmentImpl.getCurrent(EnvironmentImpl.java:201)  
at org.jbpm.pvm.internal.env.EnvironmentImpl.getCurrent(EnvironmentImpl.java:190)  
at org.jbpm.pvm.internal.tx.SpringTransactionInterceptor.resolveTransactionManager  
at org.jbpm.pvm.internal.tx.SpringTransactionInterceptor.execute  
at org.jbpm.pvm.internal.svc.EnvironmentInterceptor.executeInNewEnvironment  
at org.jbpm.pvm.internal.svc.EnvironmentInterceptor.execute(EnvironmentInterceptor.java:40)  
at org.jbpm.pvm.internal.svc.RetryInterceptor.execute(RetryInterceptor.java:55)  
at org.jbpm.pvm.internal.jobexecutor.DispatcherThread.acquireJobs(DispatcherThread.java:126)  
at org.jbpm.pvm.internal.jobexecutor.DispatcherThread.run(DispatcherThread.java:67)
```

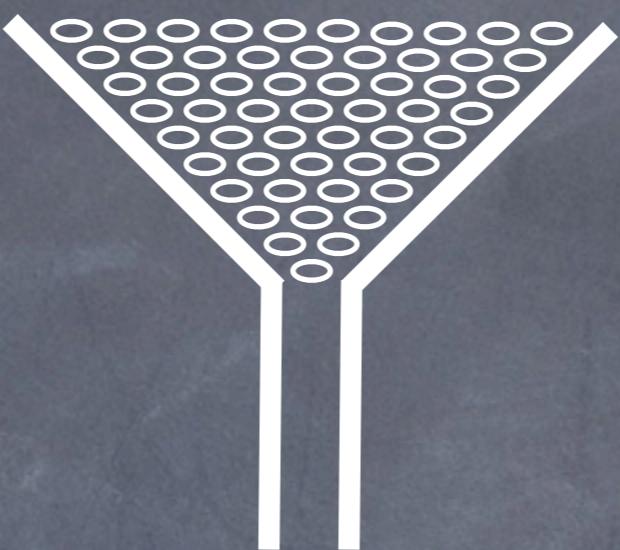
Low Level Events



Low Level Events



High Level Events



High Level Events



Event Streams

00000000000000000000000000000000

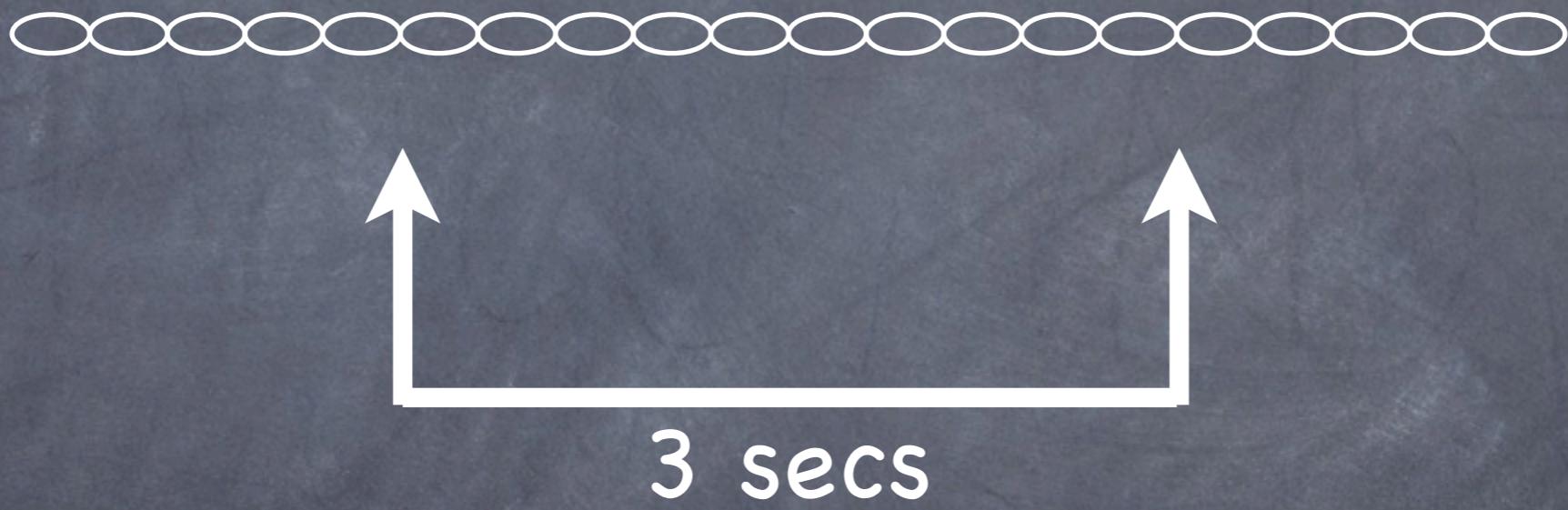
Event Streams



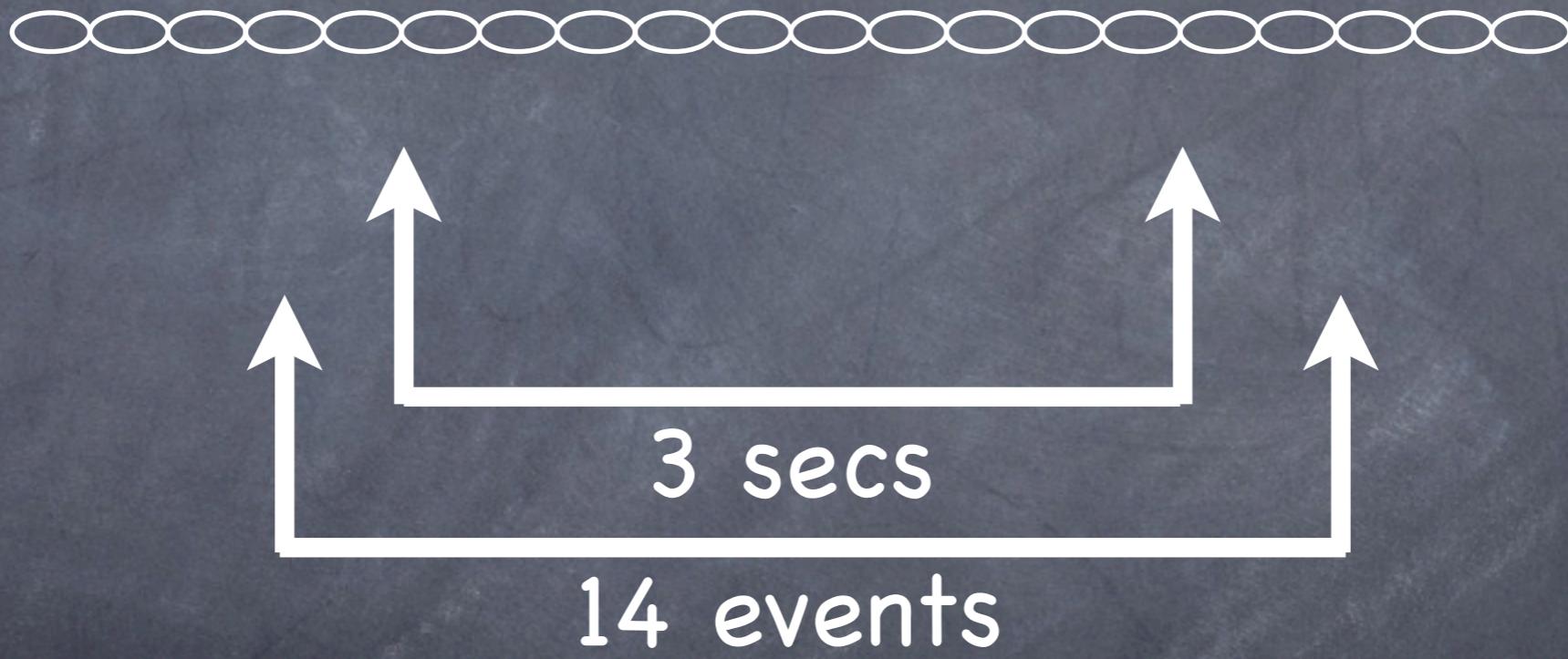
Event Windows



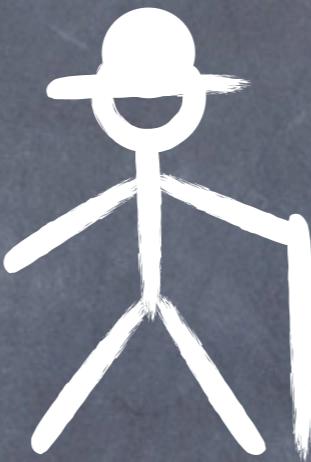
Event Windows



Event Windows



Event Lebenszyklus



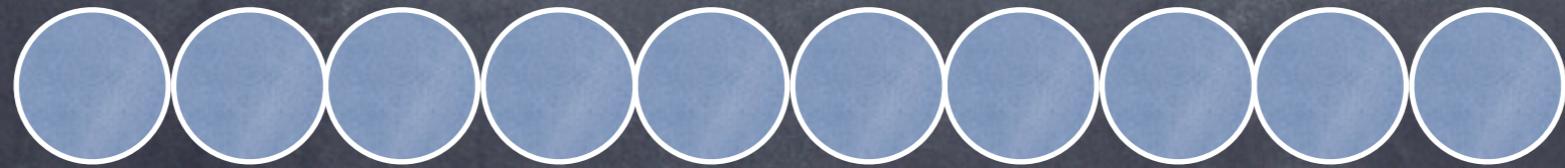
Continuous Query

Continuous Query

```
select * from foo where bar=42
```

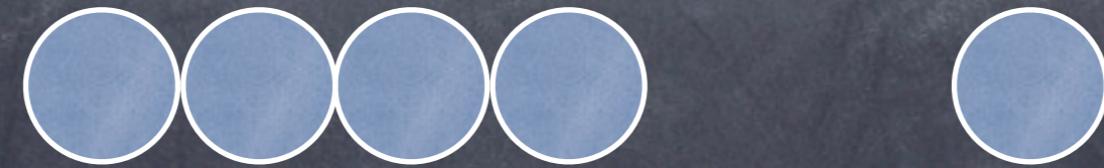
Continuous Query

select * from foo where bar=42



Continuous Query

select * from foo where bar=42



Continuous Query

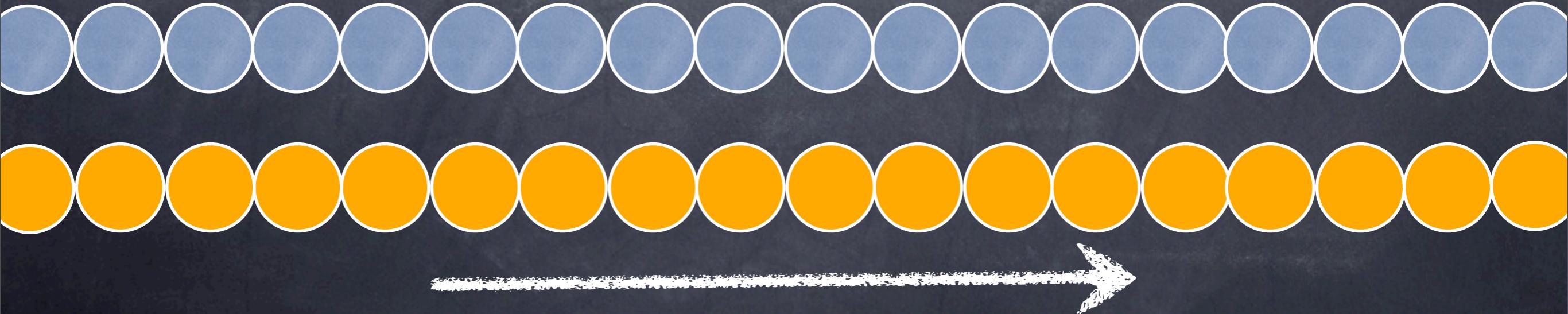
select * from foo where bar=42



Continuous Query

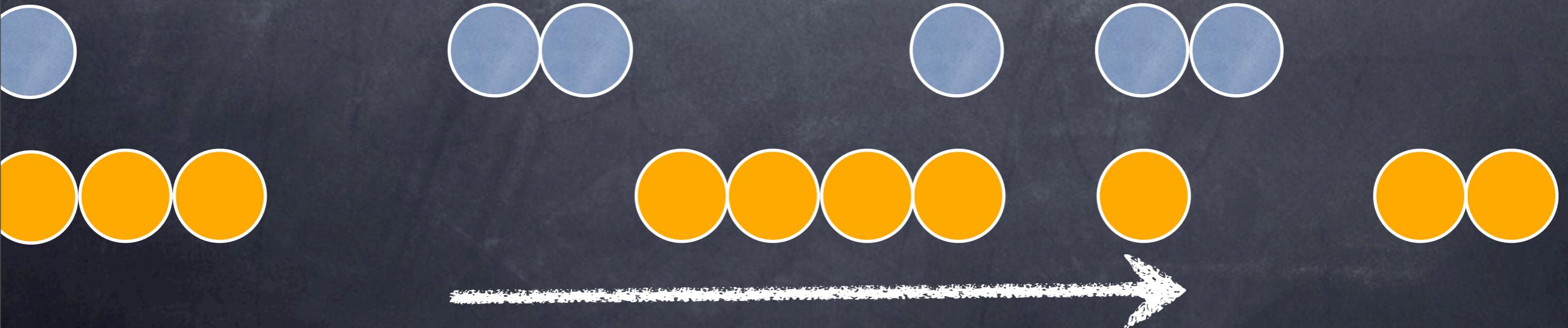
Continuous Query

```
select * from foo(bar=42)
```

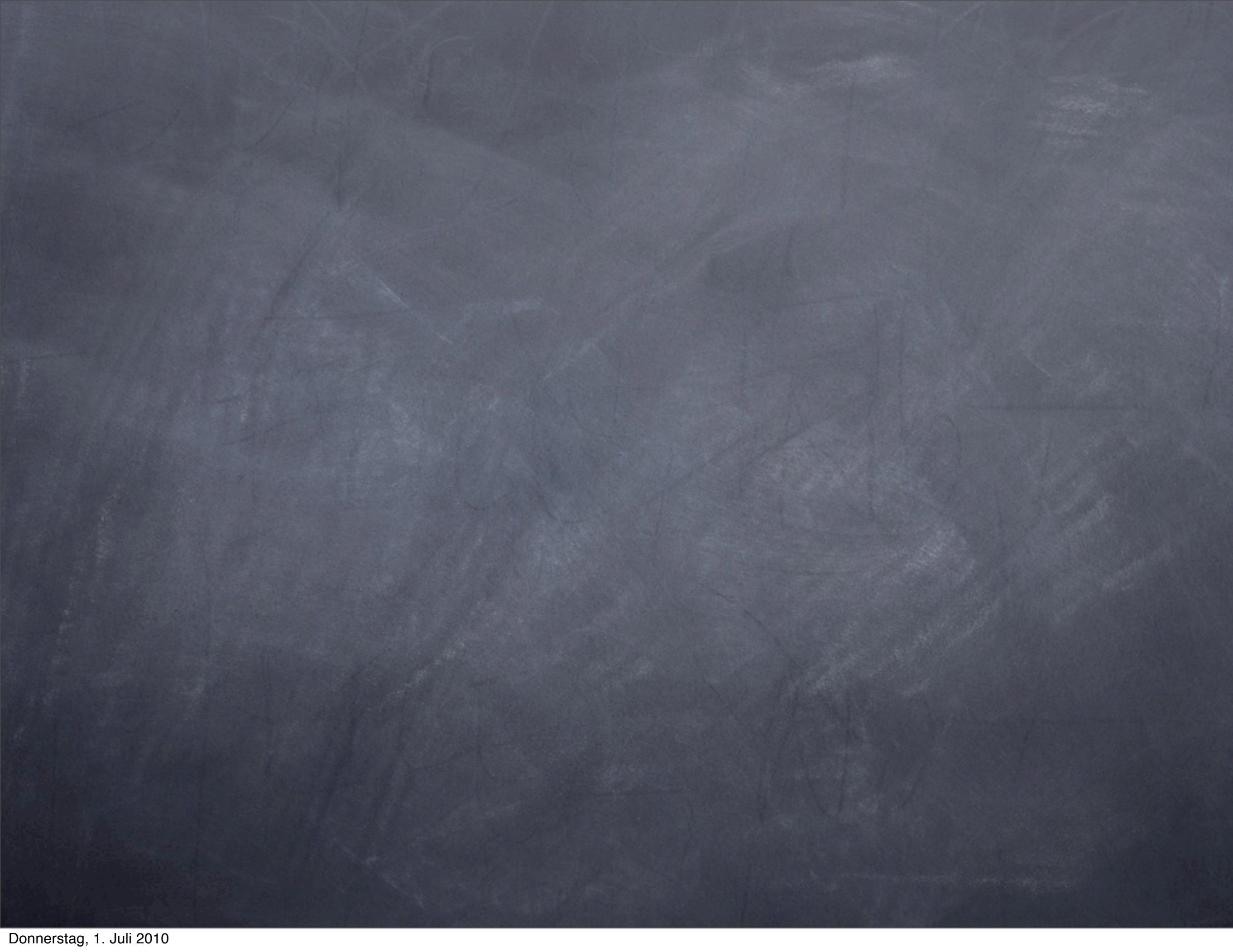


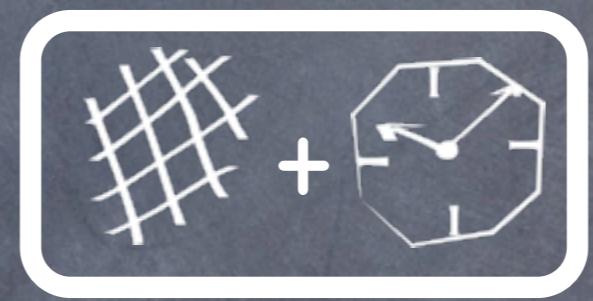
Continuous Query

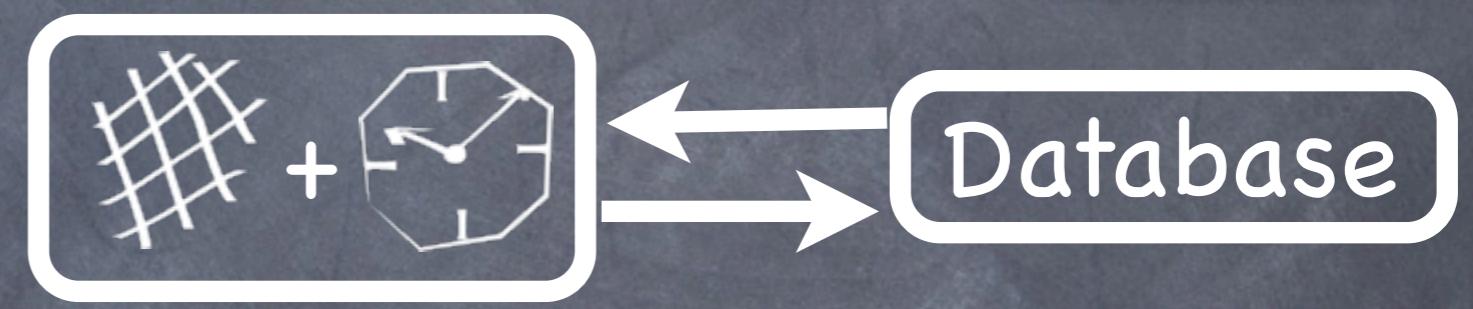
select * from foo(bar=42)

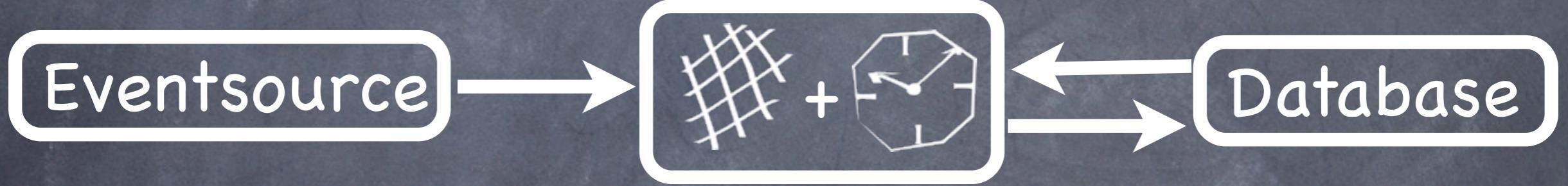


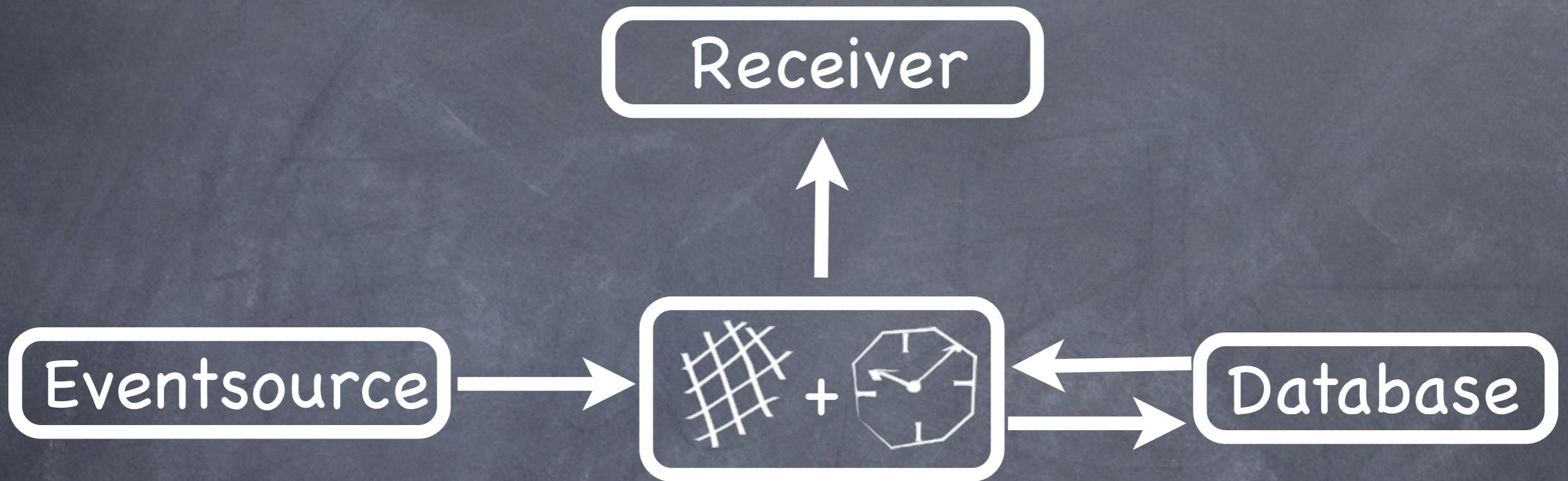
```
select hashtag, count(hashtag) from  
TwitterMessage.win:time(1200 sec)  
group by hashtag
```

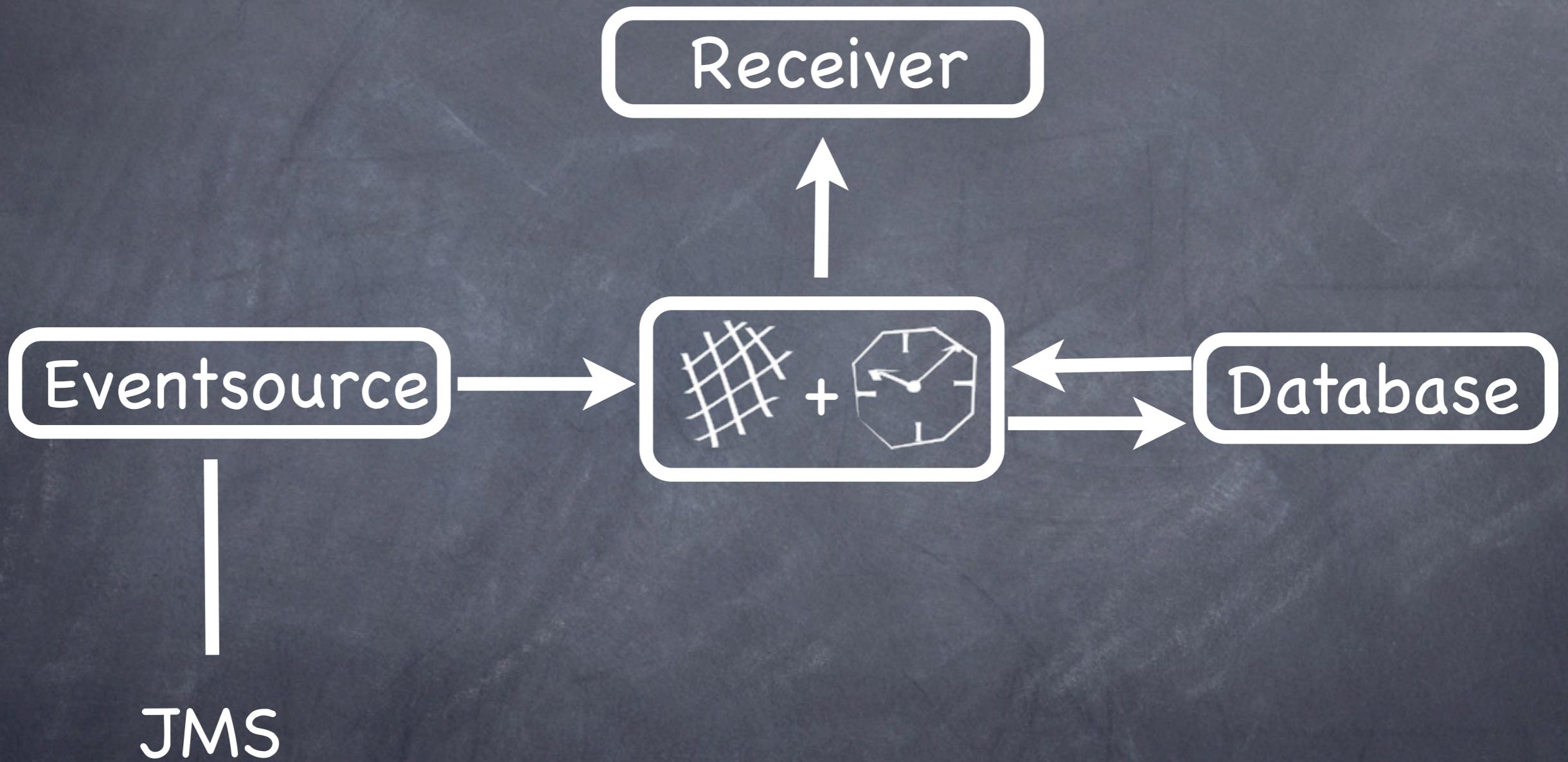


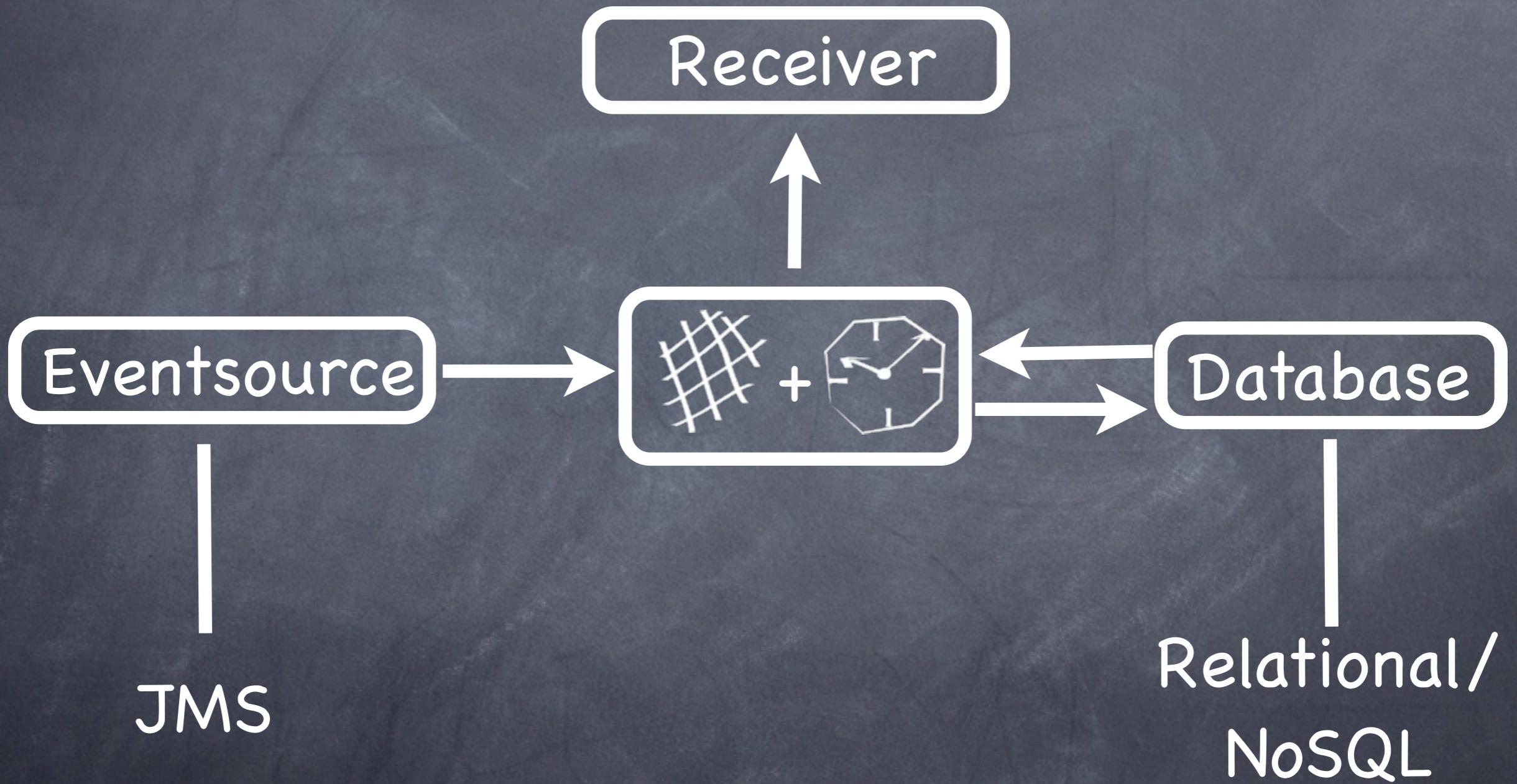


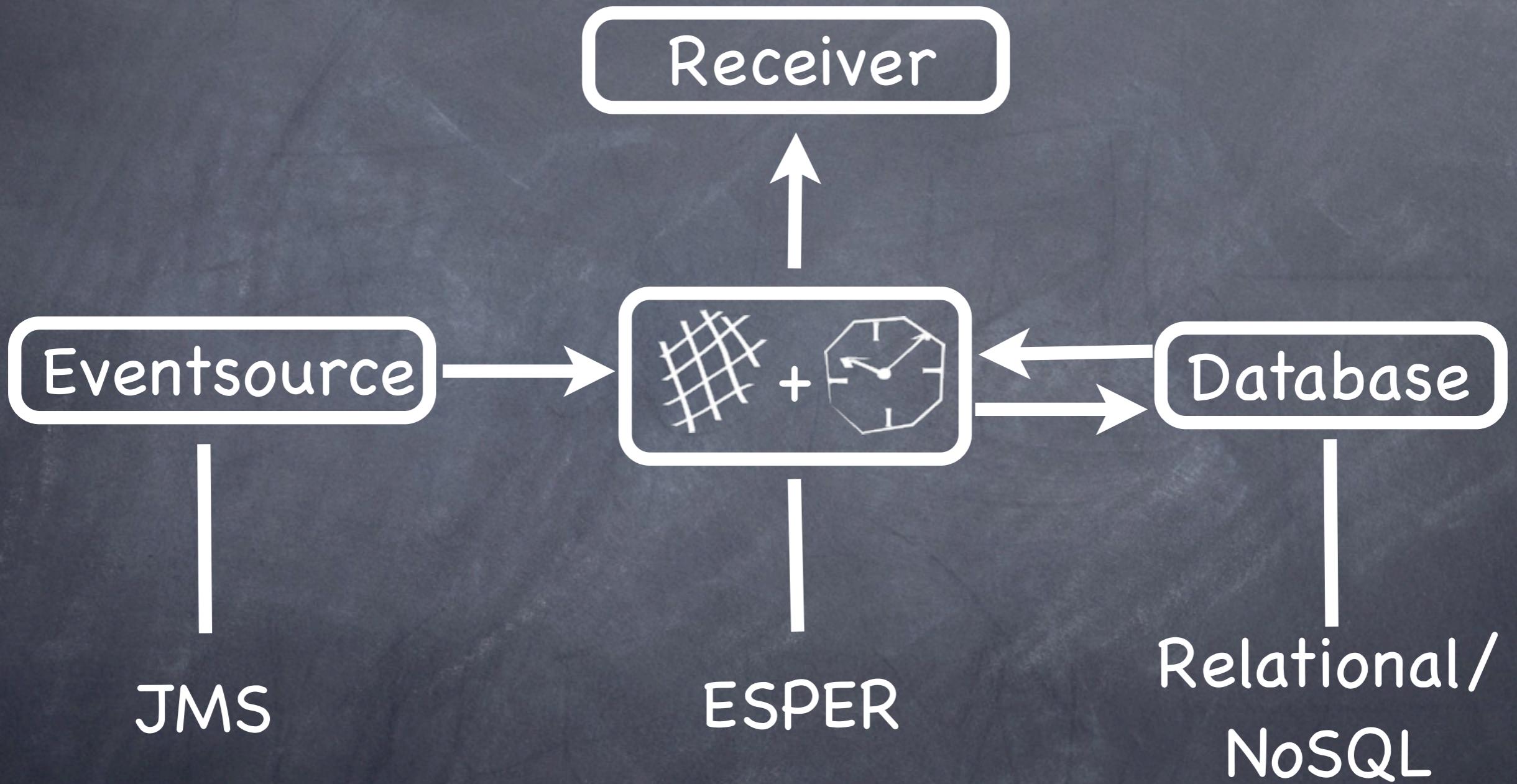






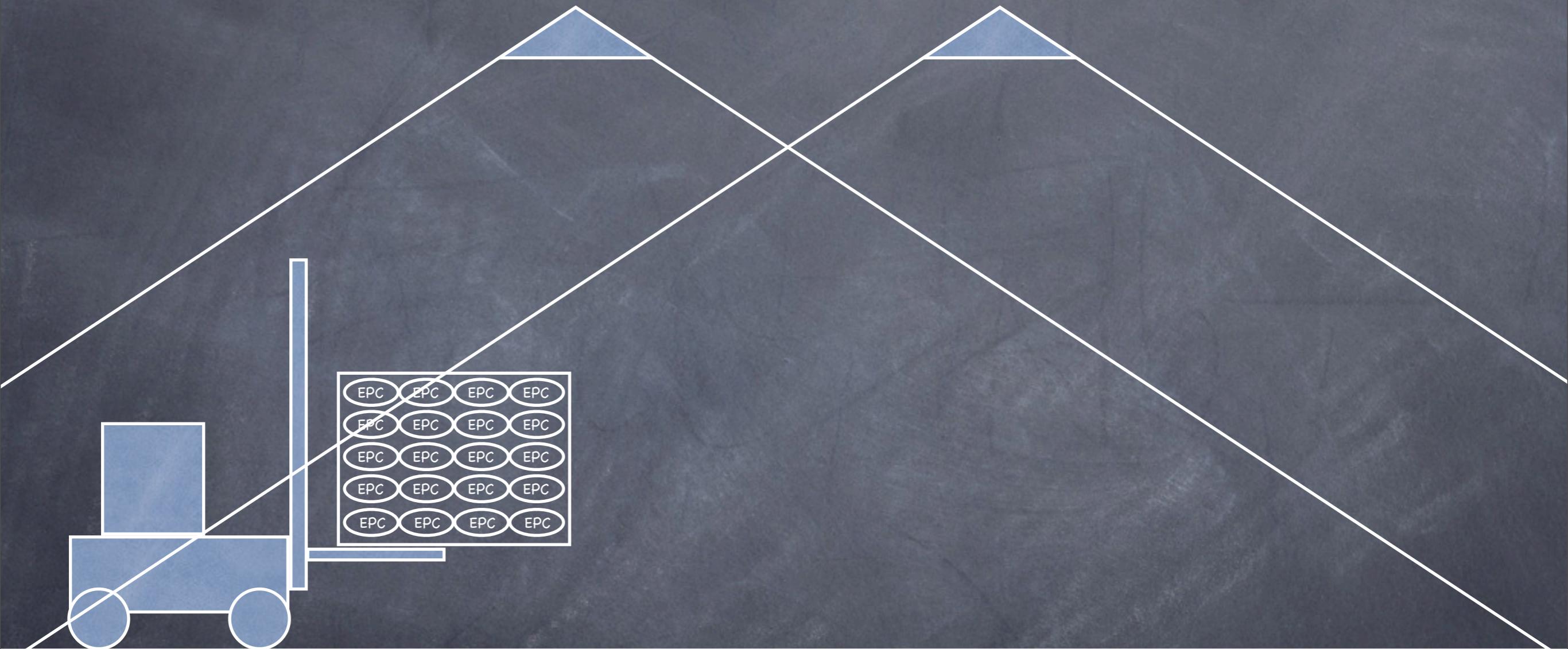


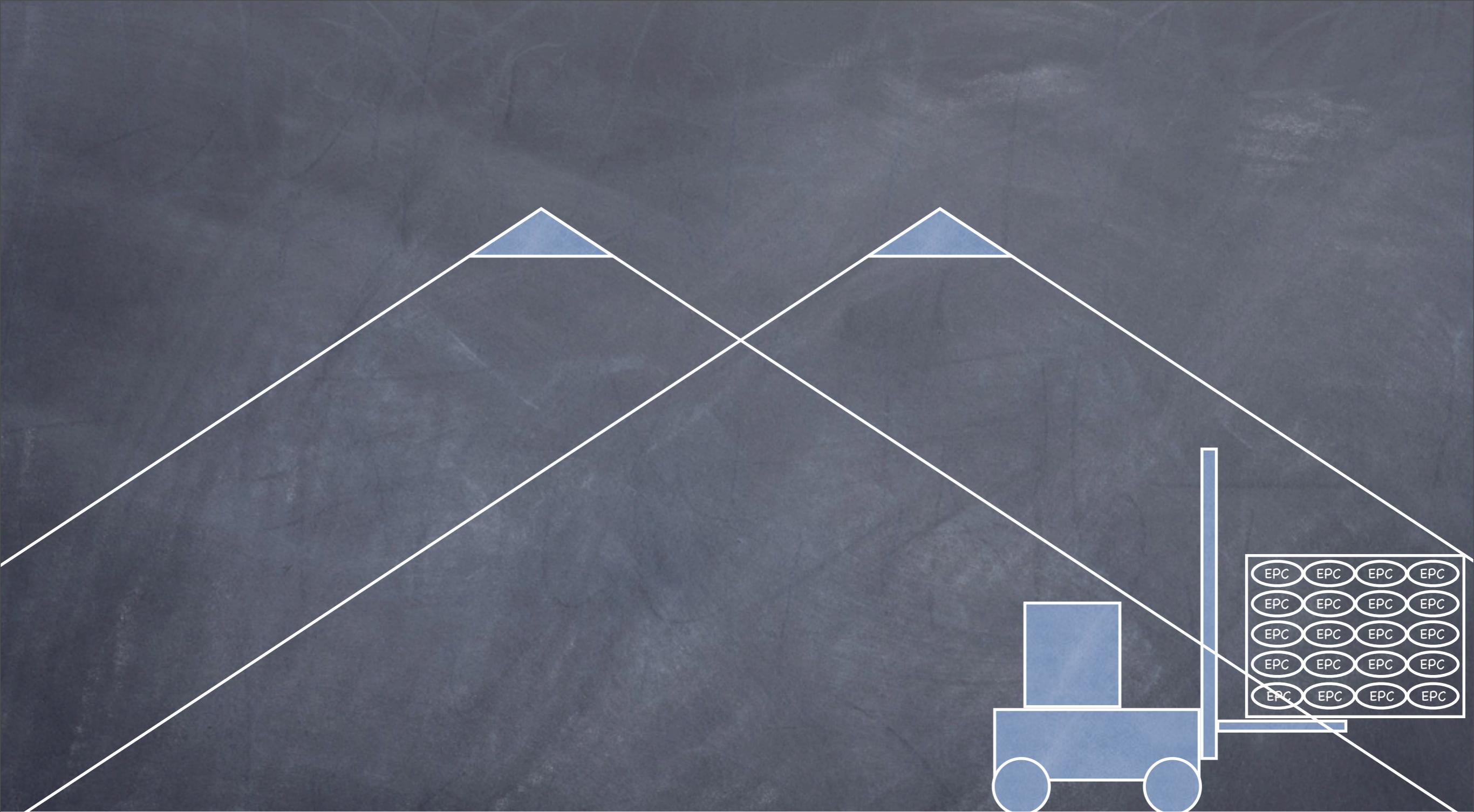




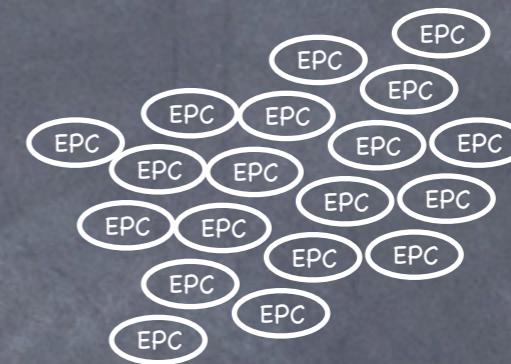
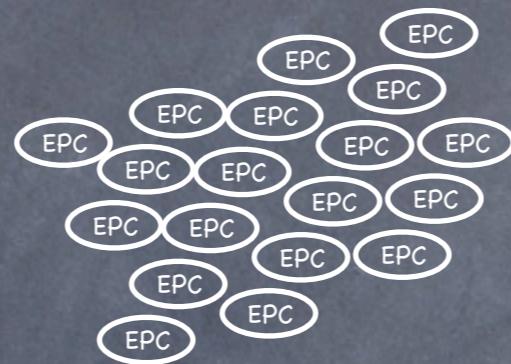
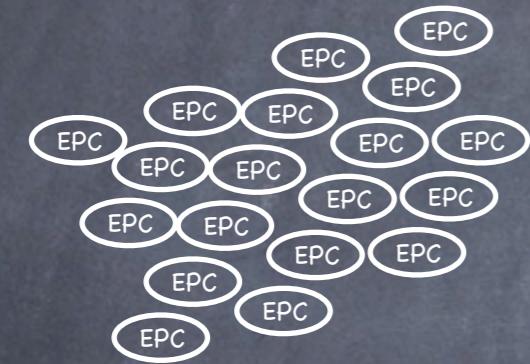








Signalstärke



Zeit

6.5.2010



Jochen Mader
Senior Developer

Christoph Emmersberger
Senior Technical Consultant

SENACOR TECHNOLOGIES AG
Wieseneckstr. 26
90571 Schwaig b. Nürnberg

Telefon: +49 (0)911 4244-0
Telefax: +49 (0)911 4244-100
E-Mail: info(at)senacor.com

<http://www.senacor.com>

