

Web architecture

Described by architectural style Consist set of constraints

Let's go to evolution of REST !!!

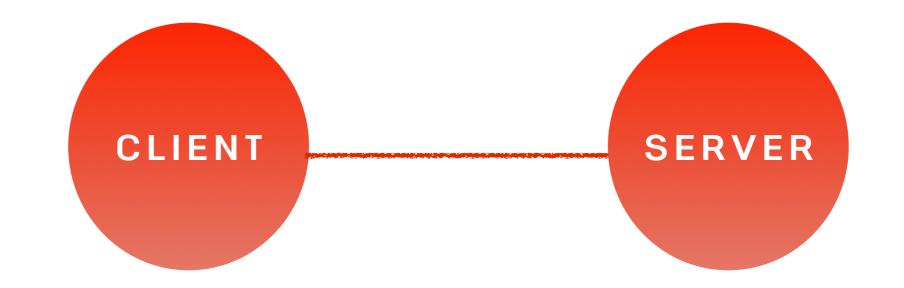
Start with Null style

No boundaries between component!!



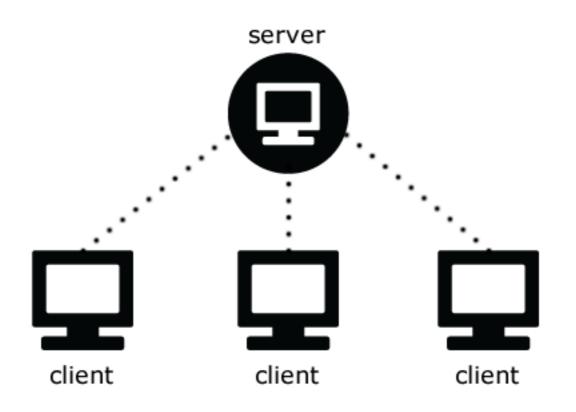
Client-Server style

First constraint add to hybrid style Separation of concern concept Improve portability and scalability



Stateless

Add new constraint to client-server interaction Keep all session state on the client Improve visibility, reliability, scalability and simplified



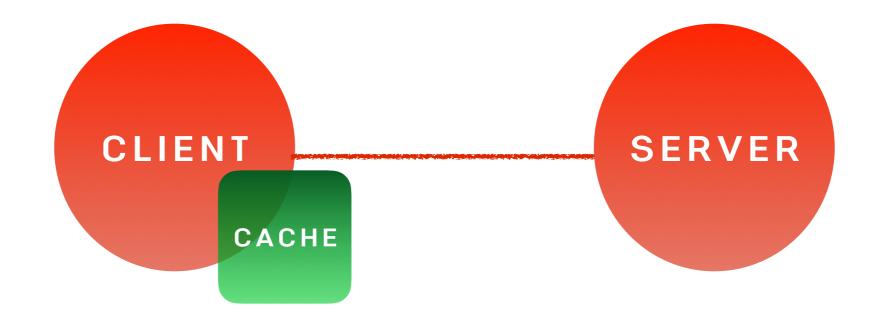
Stateless trade-off

Decrease network performance Increase data in request

Cache

Improve network performance
Add cache constraint

Client-cache-stateless-server style!!



Cache trade-off

Decrease reliability
Data can be stale!!

Uniform Interface

Way to communication between component Implementations are decoupled from the services Improve simplified and visibility



Uniform Interface trade-off

Degrade efficiency

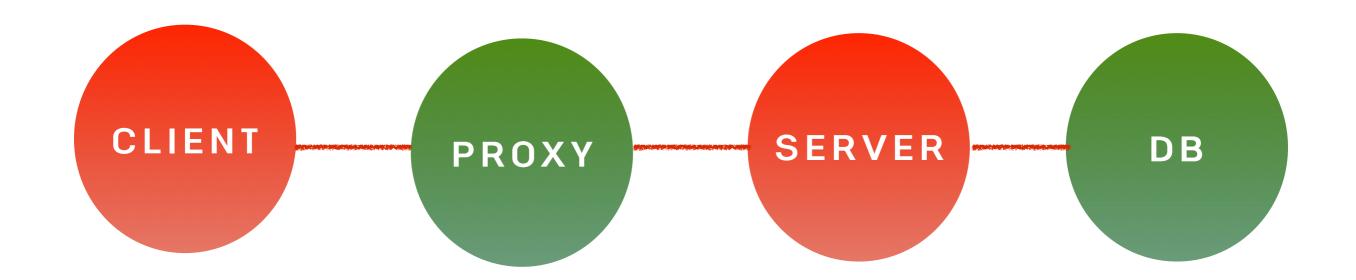
Information transferred in a standard > app's needs



SPRINT3R

Layered system

Allow architecture to be composed of hierarchical Each component can't see behaviour of other By restrict knowledge of system to single layer



Layered system trade-off

Add overhead and latency to the processing of data N+1 problem

