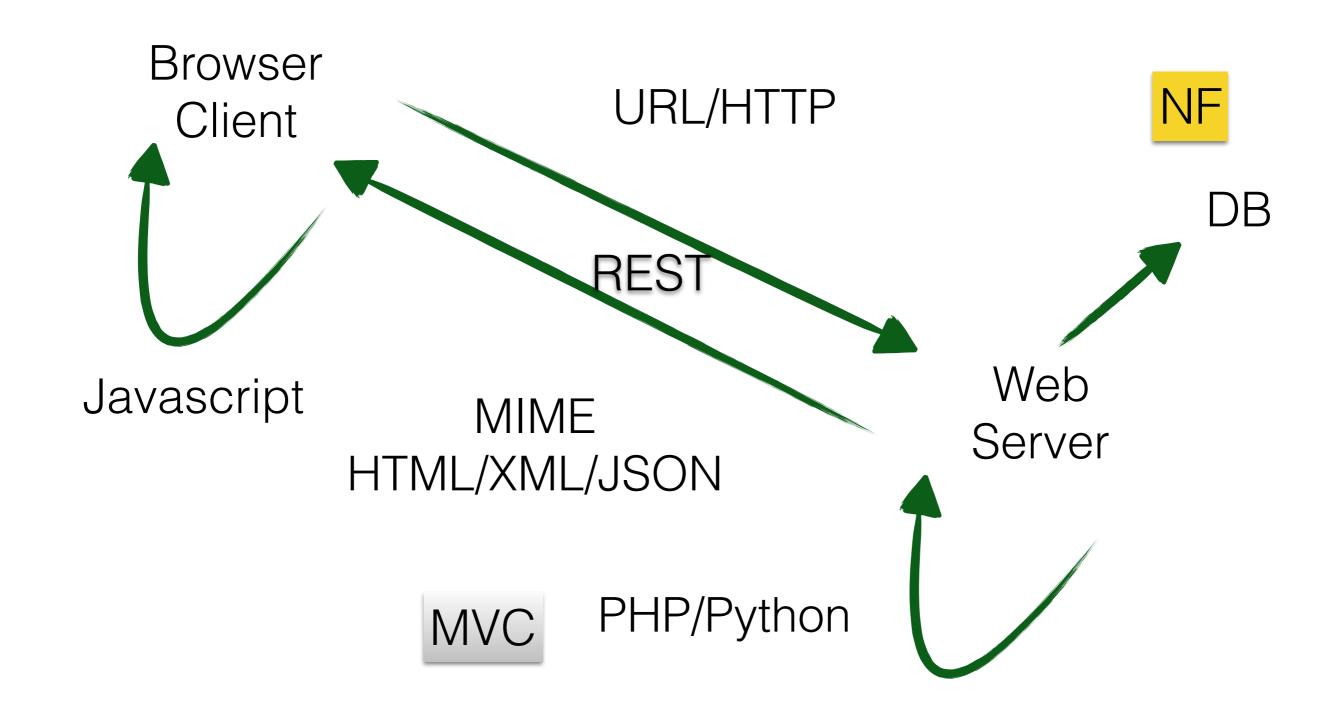
# Web dynamic Normal Forms

Frédéric Le Mouël

## The Big Picture



#### Normalization?

 Database normalization: process of structuring tables - including attributes - of a relational database to minimize data redundancy

database to minimize data redundancy $R_{eq_{Up}}$						
CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country ancy!
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
2	Ana Trujillo Emparedados y	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	5023	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	5023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden

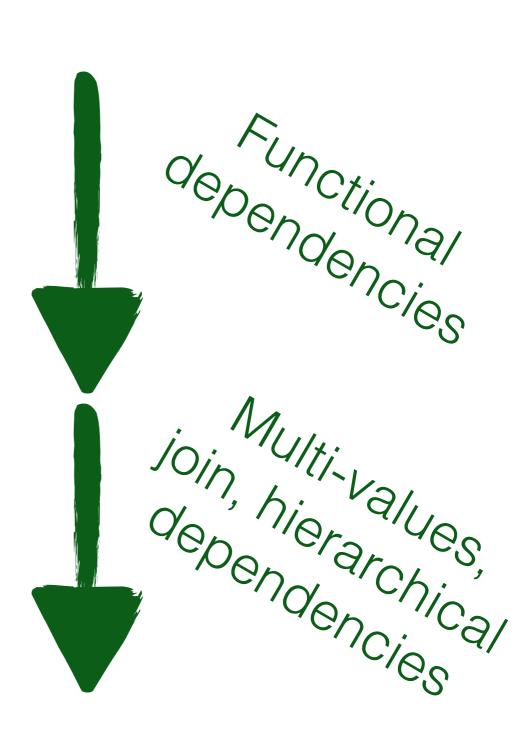
#### List of Normal Forms

- 1FN First Normal Form
- 2FN Second Normal Form
- 3FN Third Normal Form
- BCNF Boyce-Codd Normal Form
- 4FN Fourth Normal Form
- 5FN Fifth Normal Form
- 6FN Sixth Normal Form



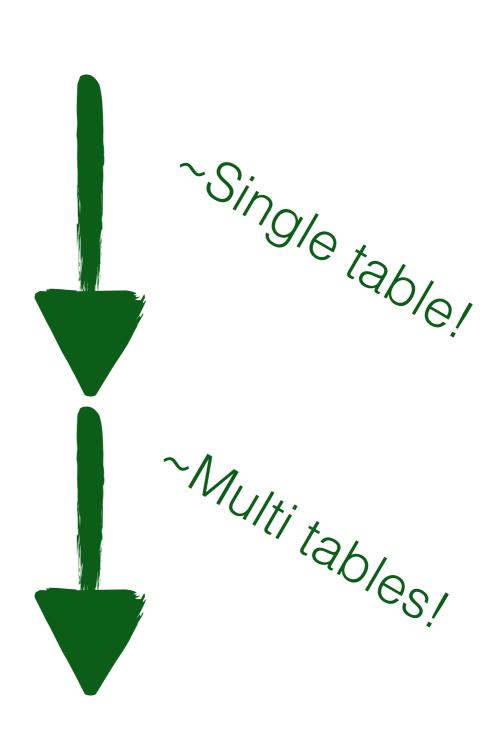
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### Dependency?

• Functional Dependency...