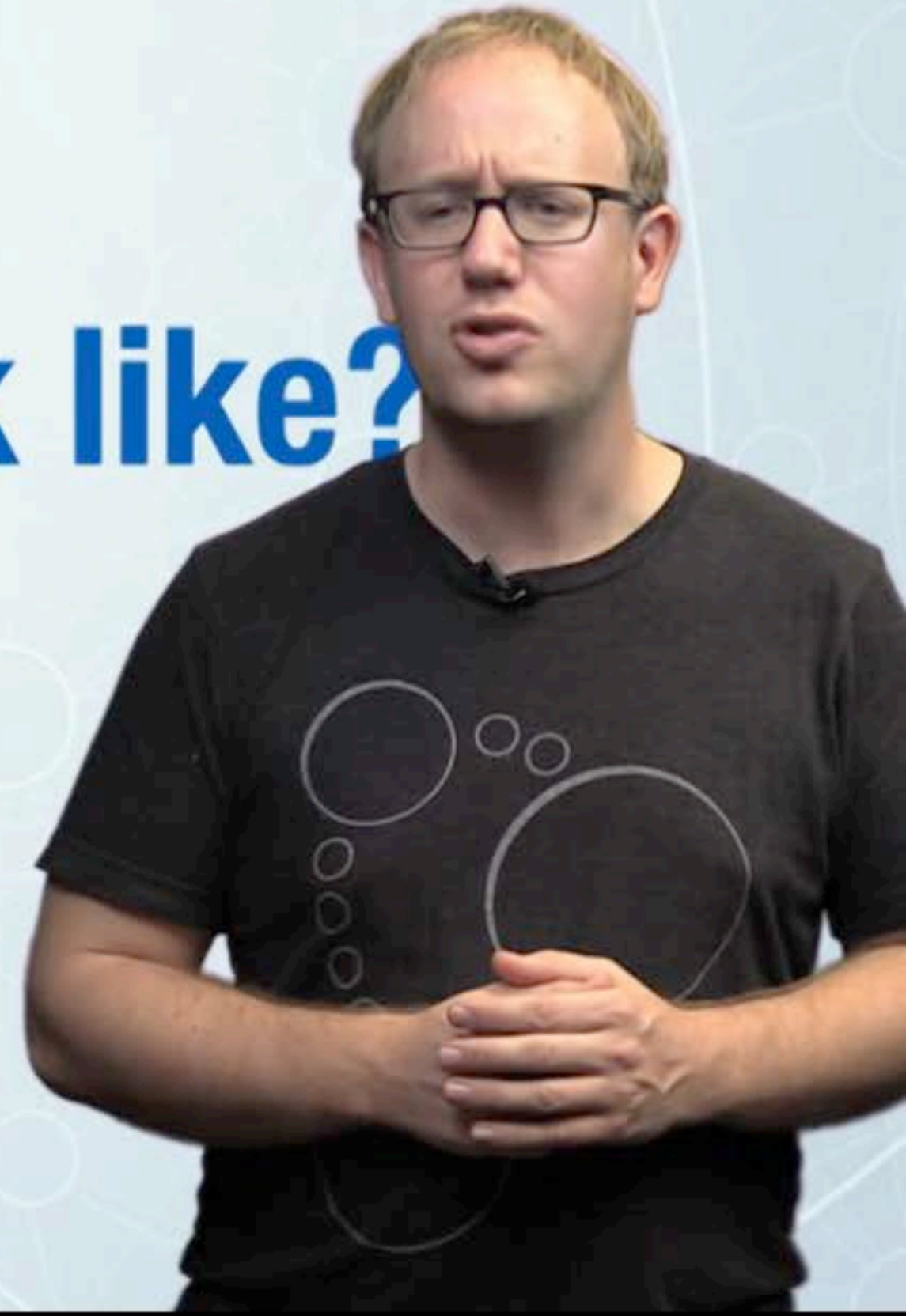


INTRO TO GRAPH DATABASES

Episode 3
Graph Modeling



What does a Graph look like?



Ann Loves Dan



Ann



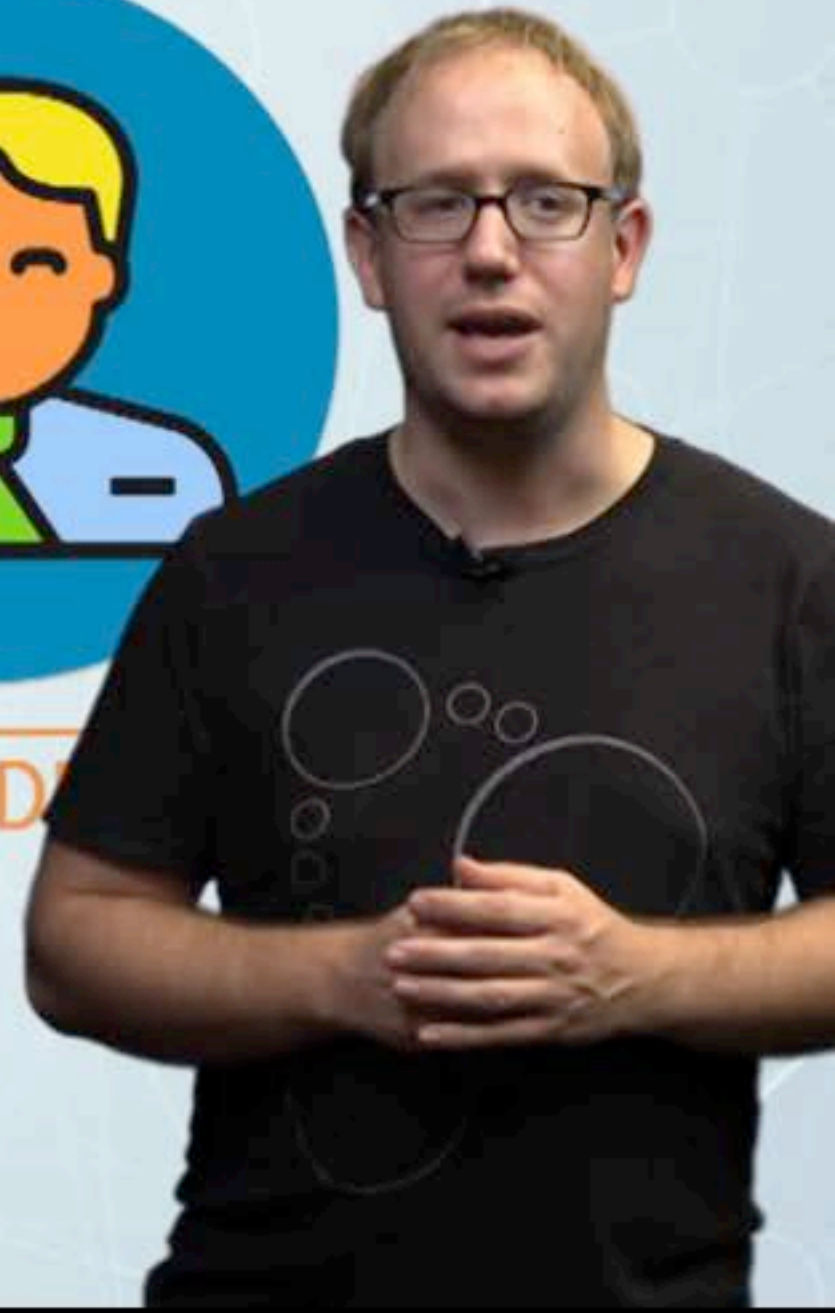
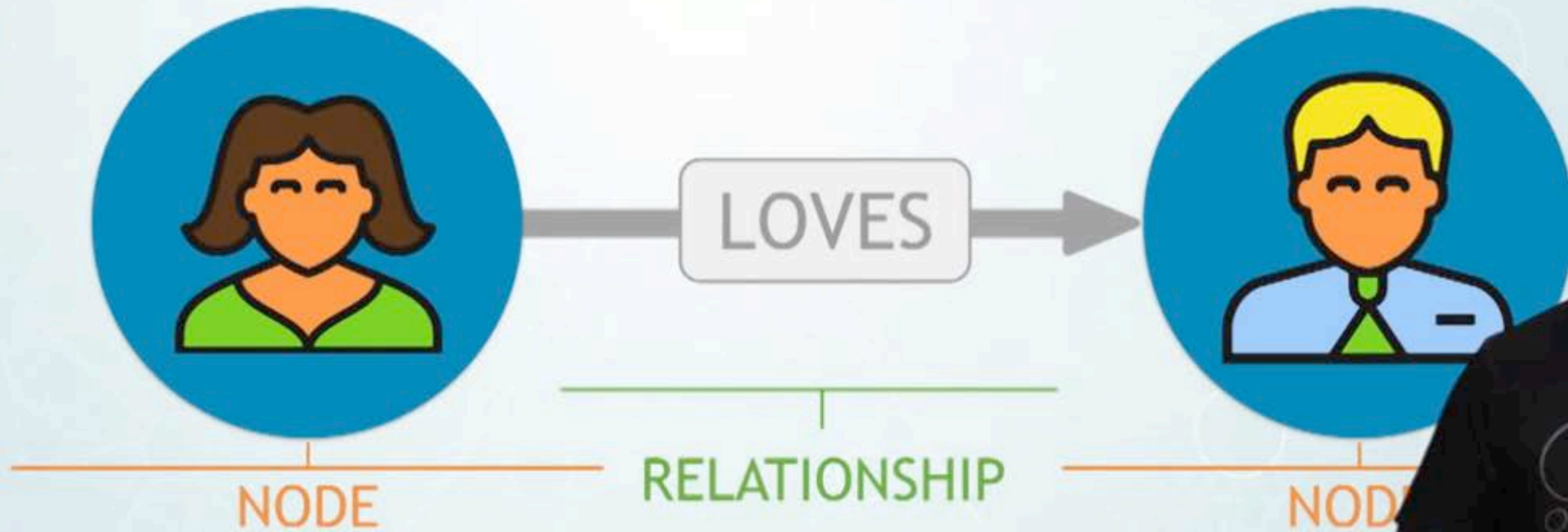
Loves



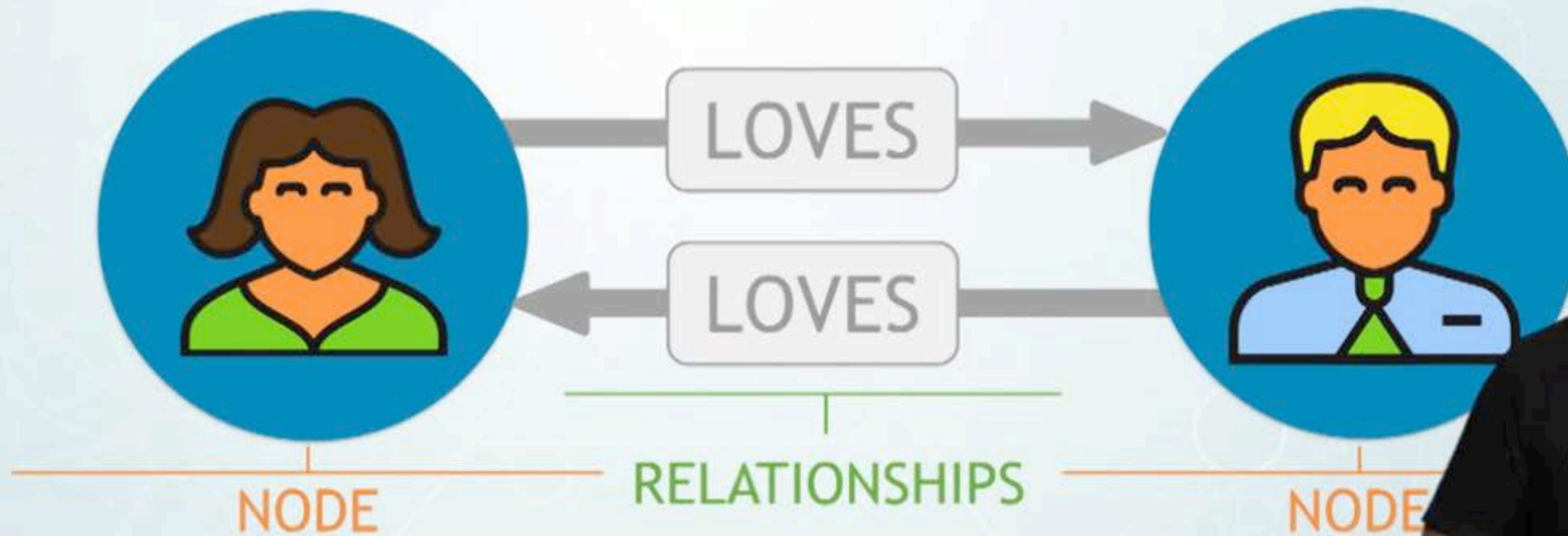
Dan



Ann Loves Dan



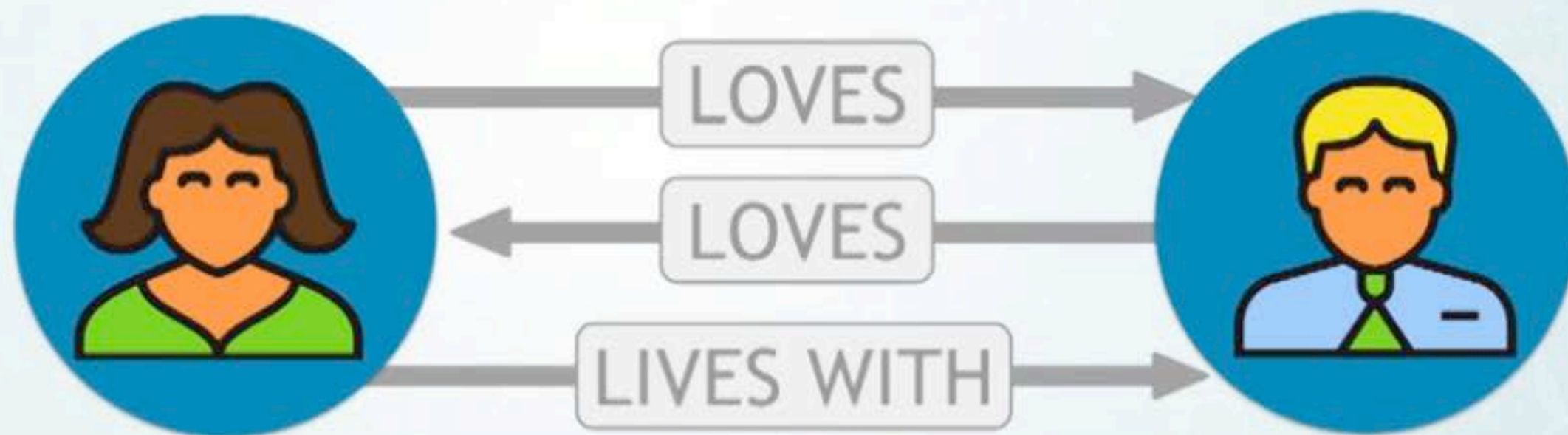
Relationships are Directional



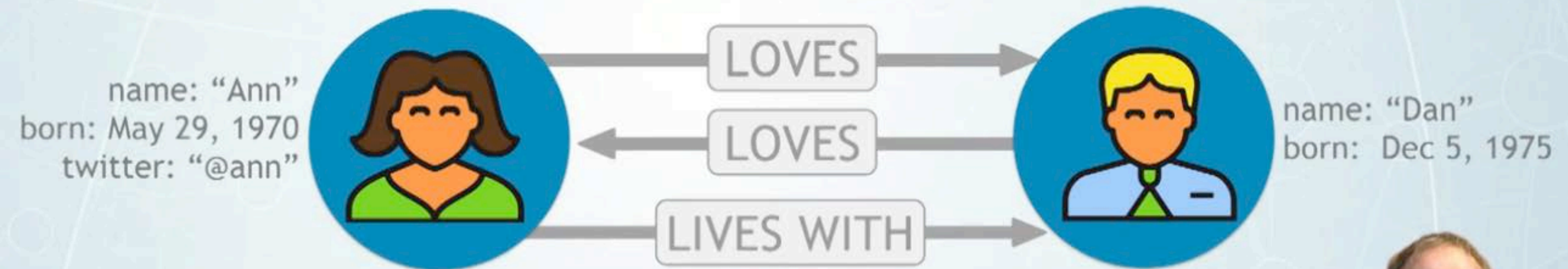
Detailed Property Graph



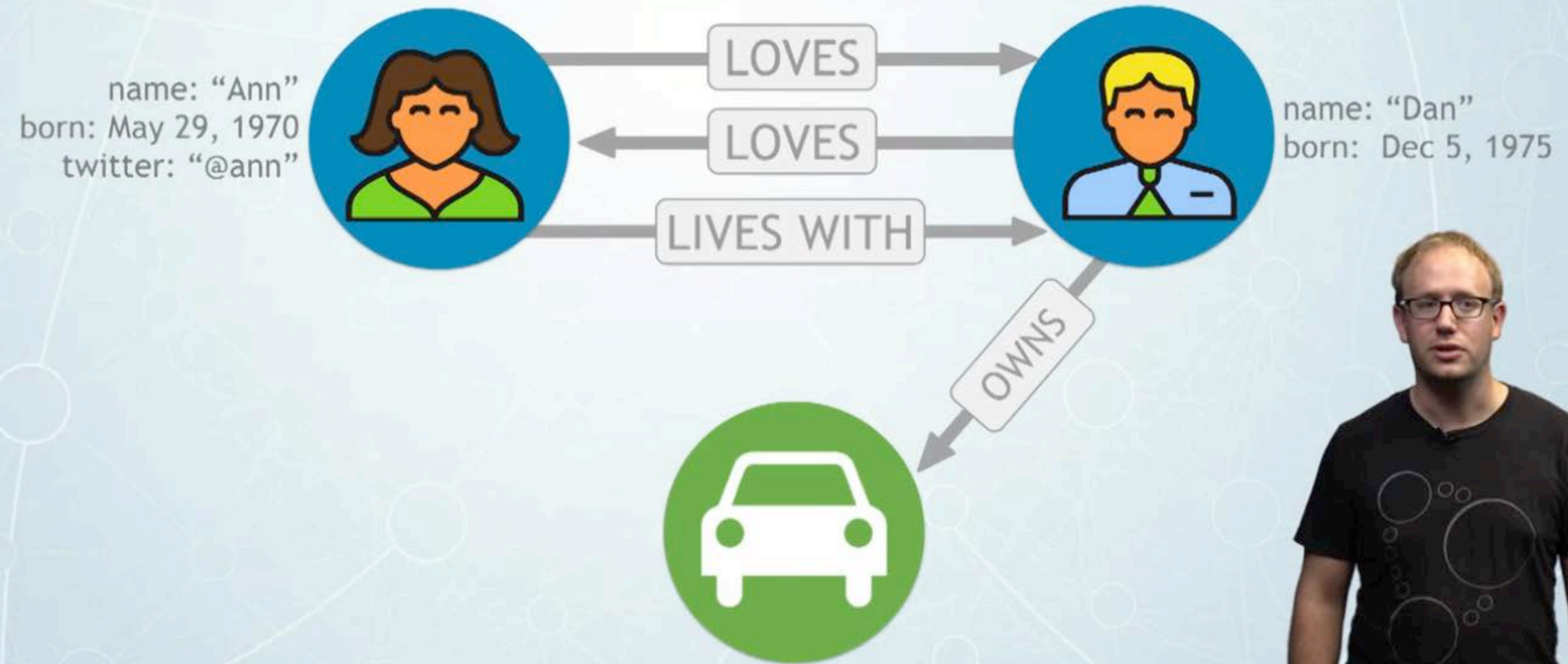
Detailed Property Graph



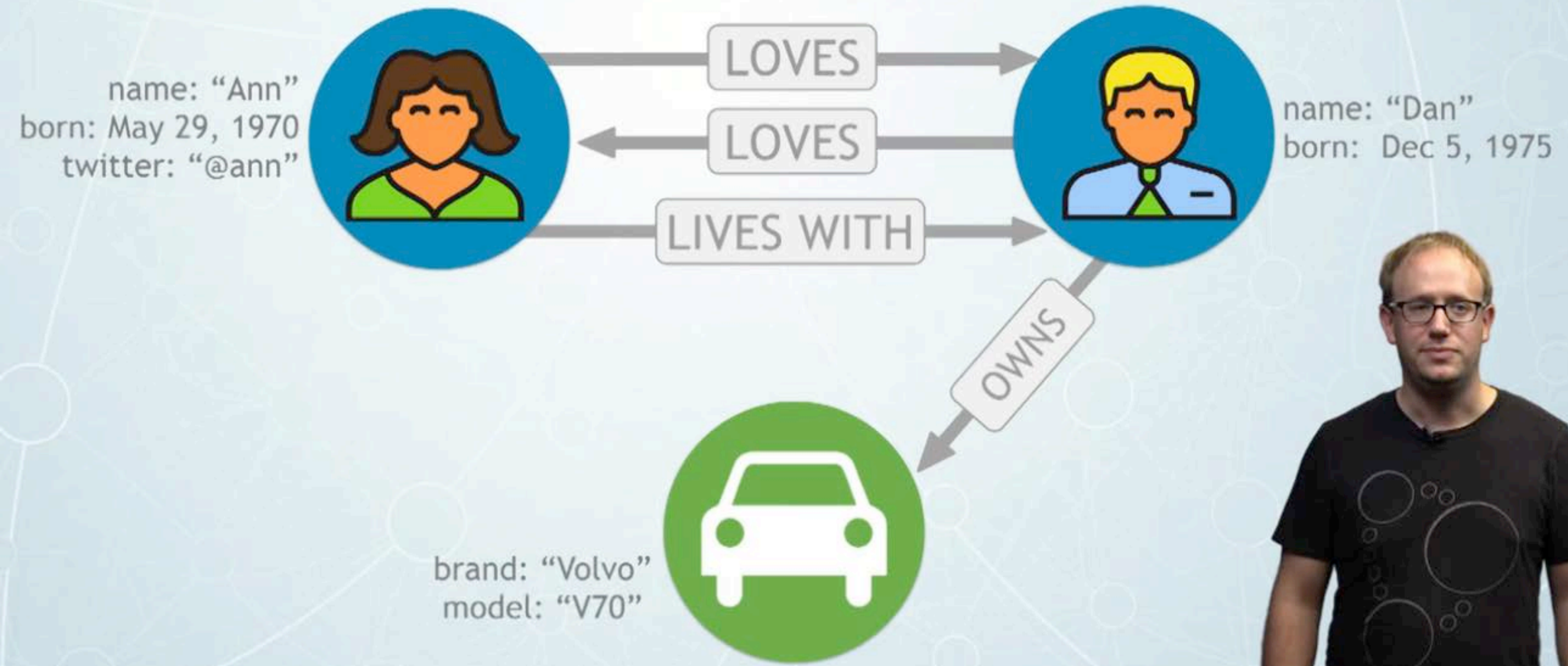
Detailed Property Graph



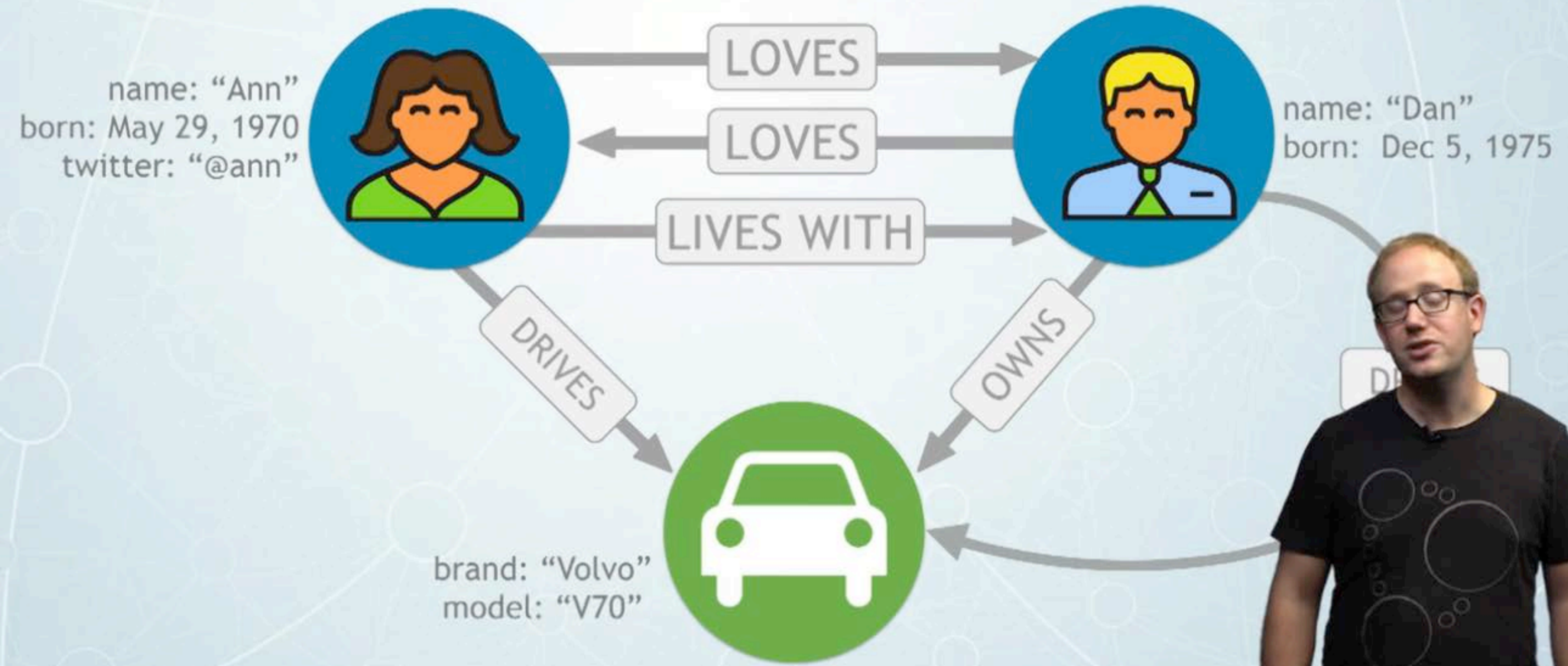
Detailed Property Graph



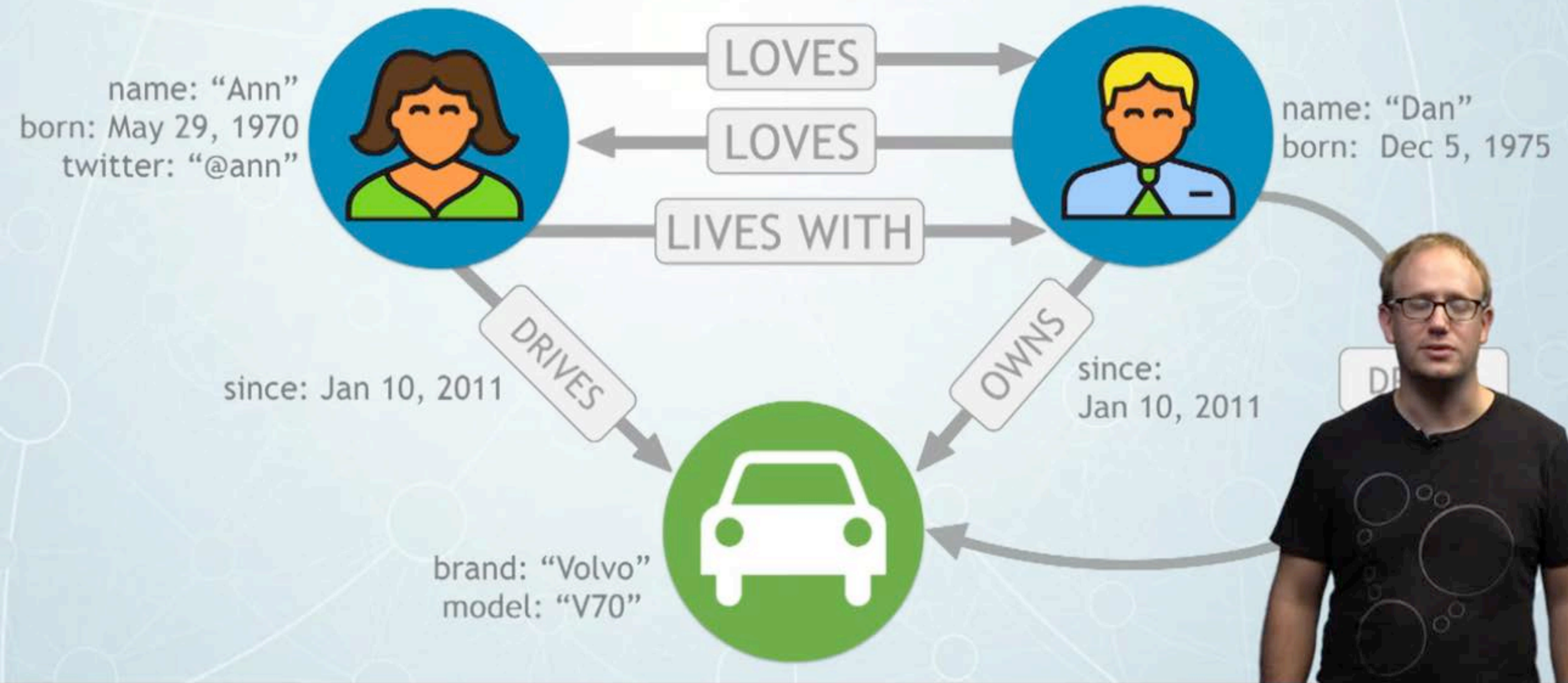
Detailed Property Graph



Detailed Property Graph



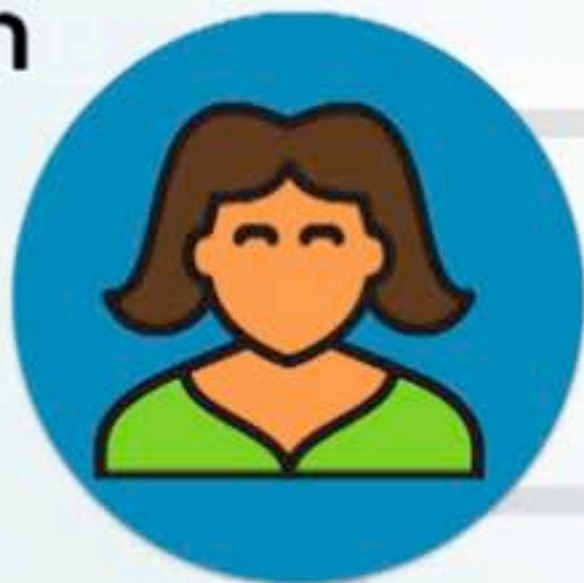
Detailed Property Graph



Labeled Property Graph

:Person

name: "Ann"
born: May 29, 1970
twitter: "@ann"



:Person

name: "Dan"
born: Dec 5, 1975



LOVES

LOVES

LIVES WITH

DRIVES

since: Jan 10, 2011

OWNS

since:
Jan 10, 2011

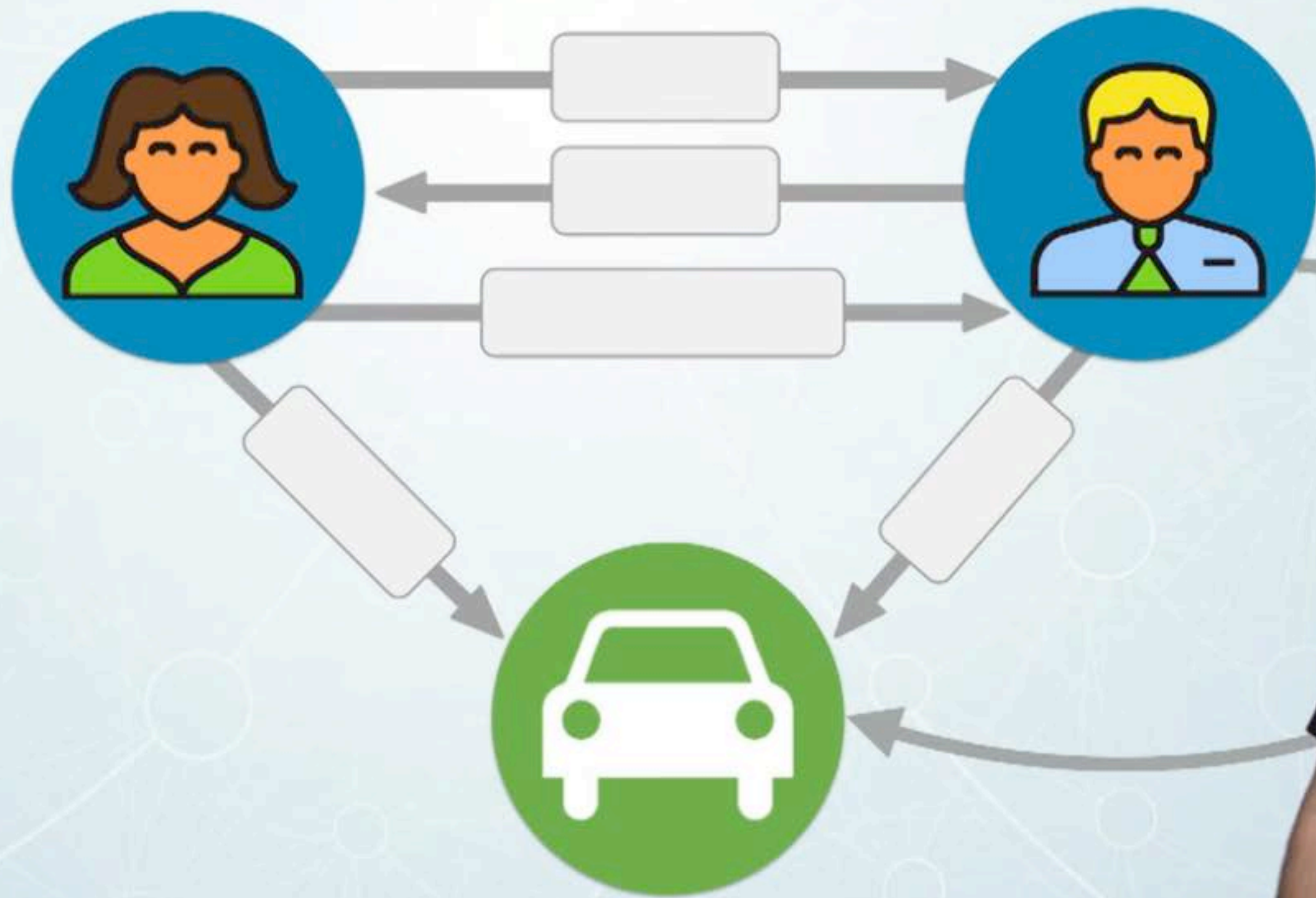
:Car

:Vehicle

brand: "Volvo"
model: "V70"

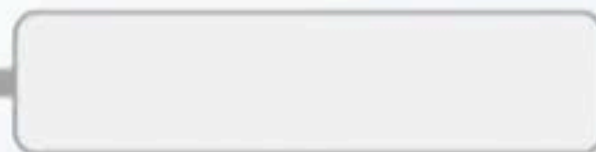
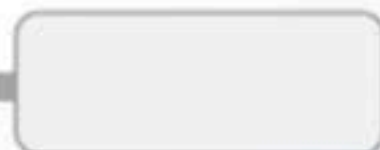


Mapping to Languages



Mapping to Languages

:Noun



:Noun



:Noun



Mapping to Languages

:Noun

adjective
adjective
adjective



:Noun

adjective
adjective



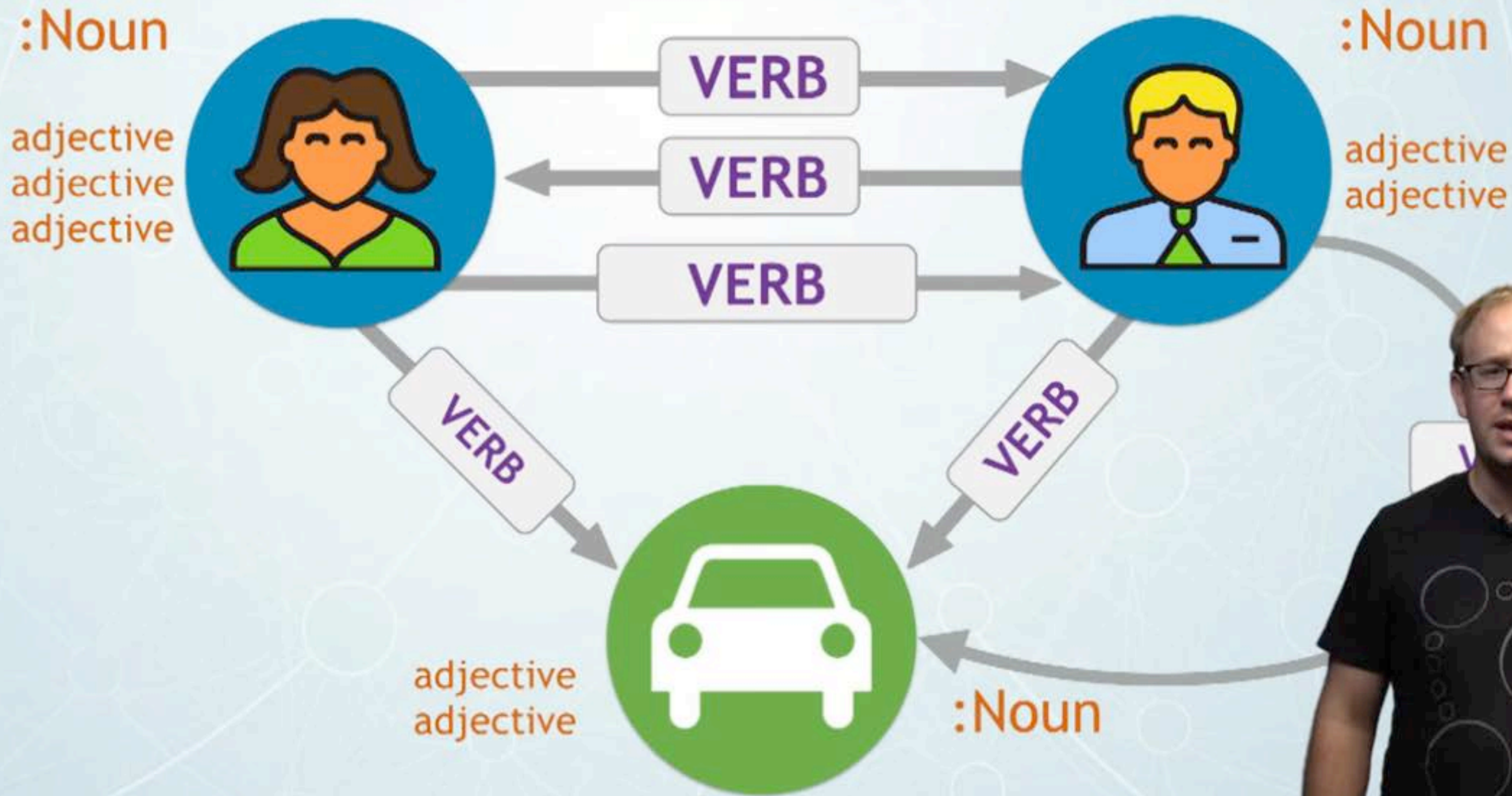
adjective
adjective



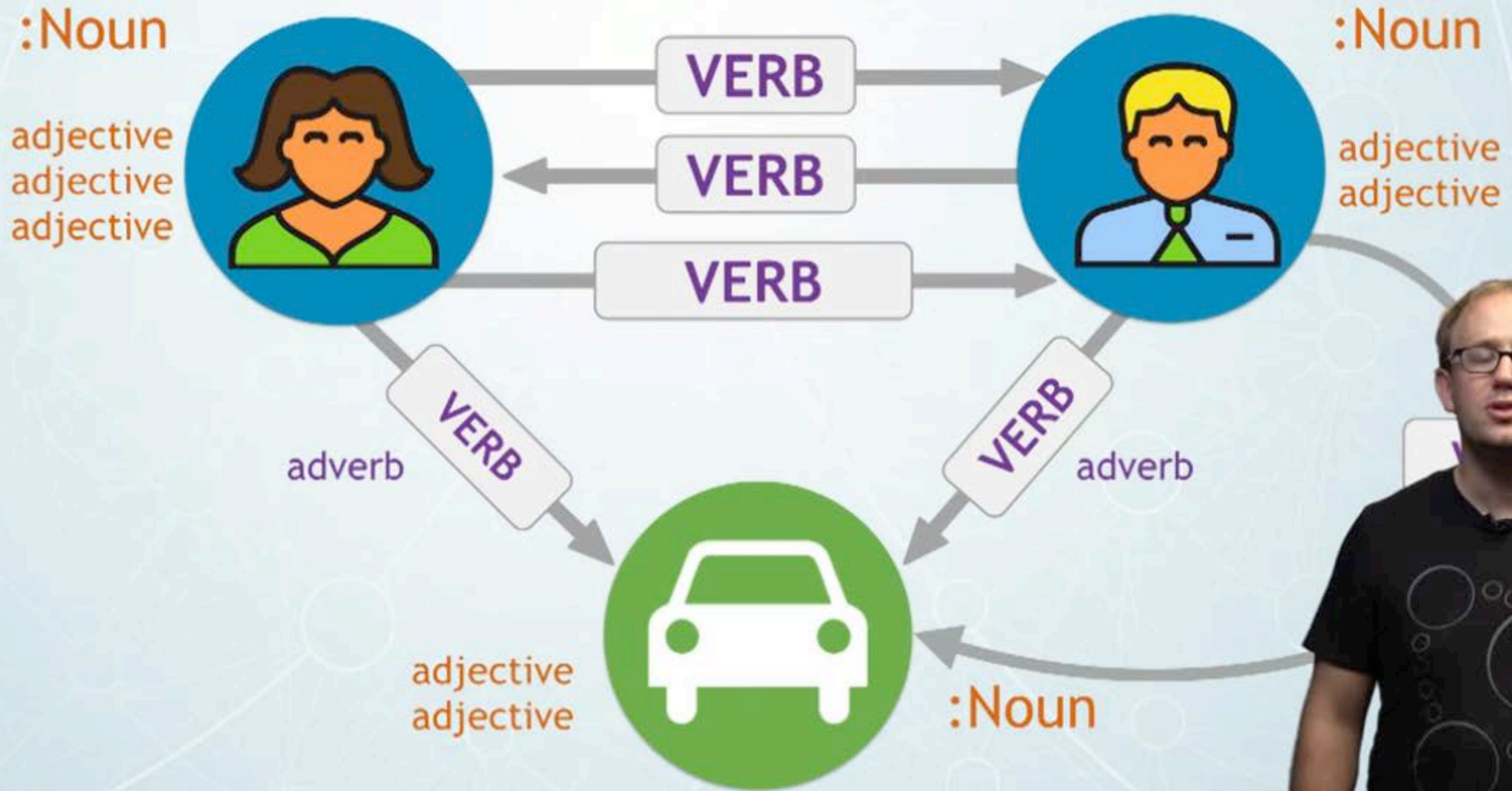
:Noun



Mapping to Languages



Mapping to Languages

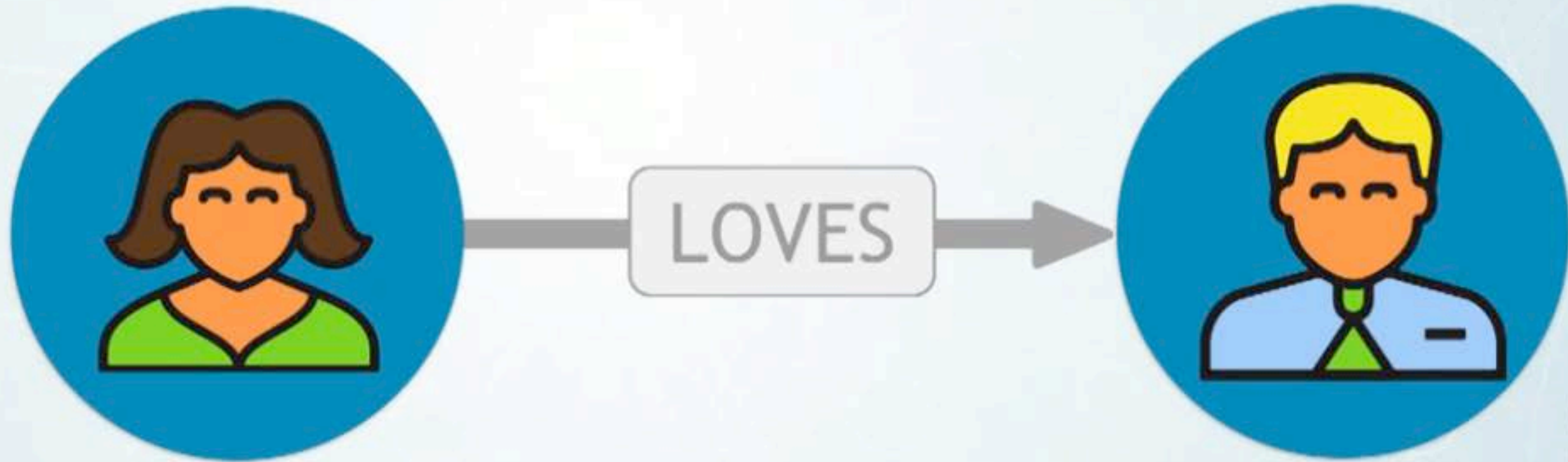




(Very) Brief Cypher Tutorial



Creating the Data



NODE

NODE

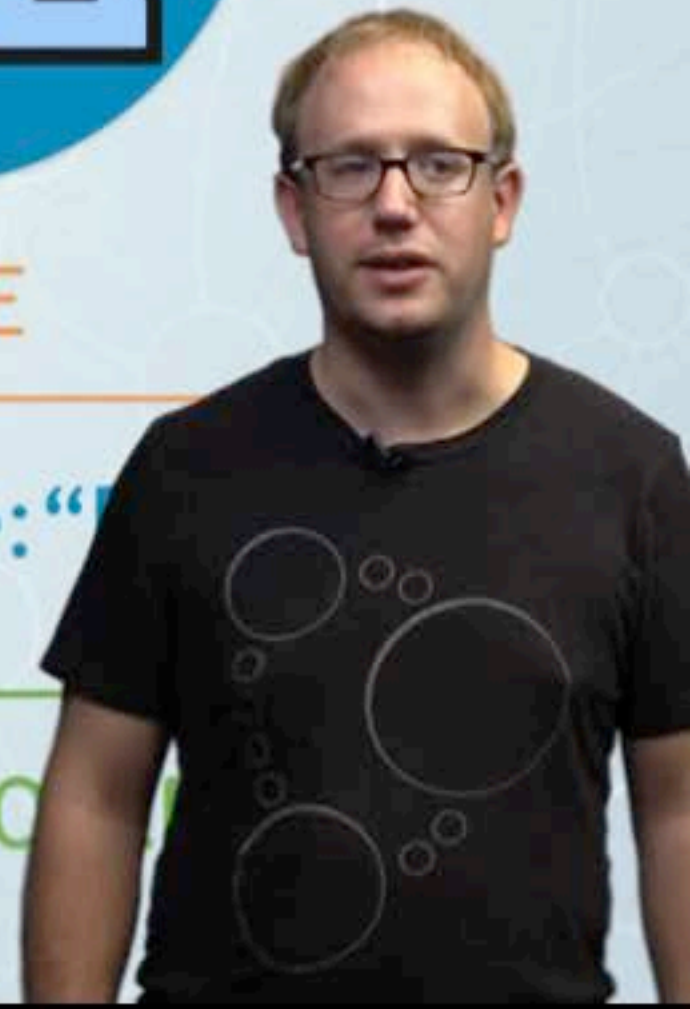
CREATE (:Person { name:"Ann" }) - [:LOVES]-> (:Person { name:""

LABEL

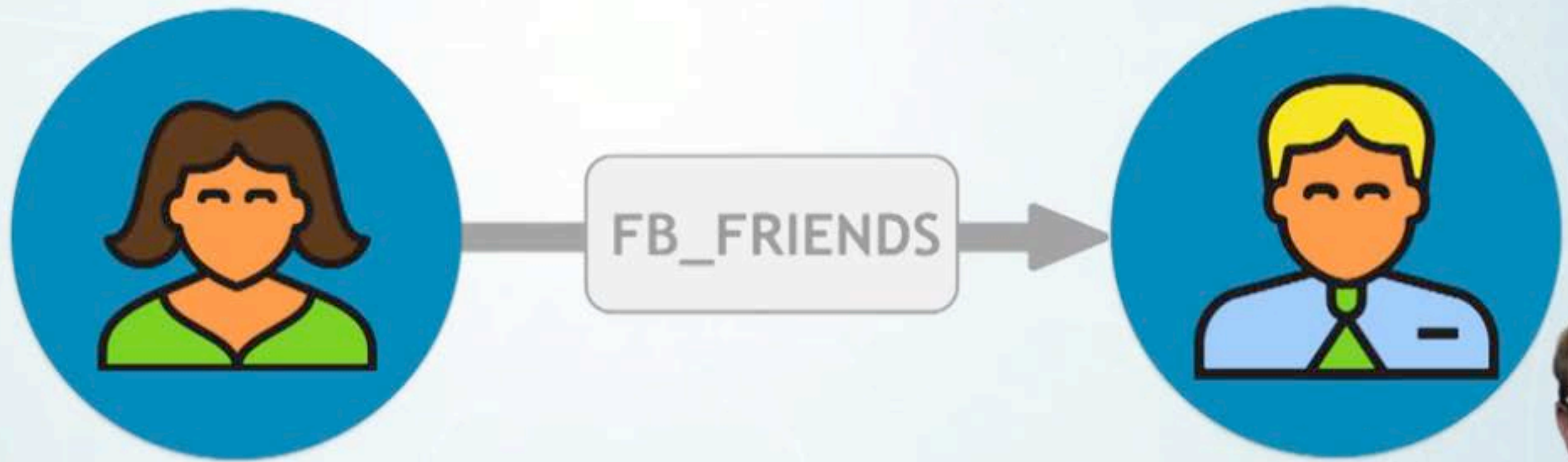
PROPERTY

LABEL

PRO



Representing Bi-Directionality

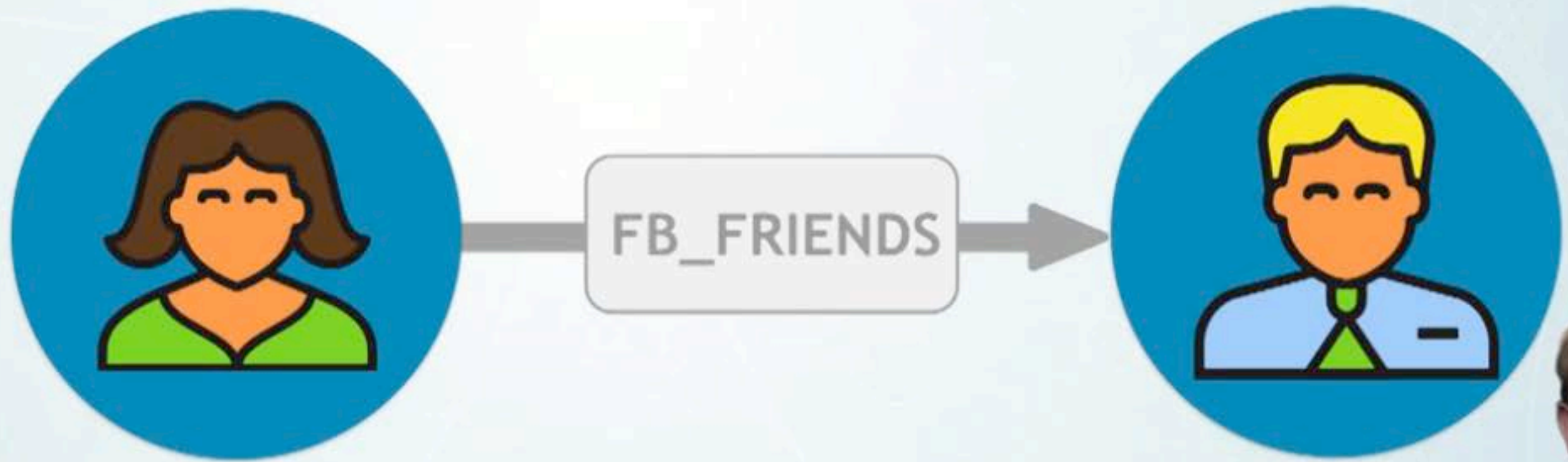


`MATCH (:Person {name:"Ann"}) - [:FB_FRIENDS] -> (:Person {name:"Dan"})`

Matches just the Ann/Dan friendship, as long as Ann initiated it



Representing Bi-Directionality



`MATCH (:Person {name:"Ann"}) - [:FB_FRIENDS] -> (:Person {name:"Dan"})`

Matches just the Ann/Dan friendship, as long as Ann initiated it

`MATCH (:Person {name:"Ann"}) - [:FB_FRIENDS] - (p:Person)`

Matches all of Ann's friends, regardless of who initiated the friendship





THANK YOU!



Ryan Boyd
@ryguyrg

