

Amanda Laucher

 Neo Technology



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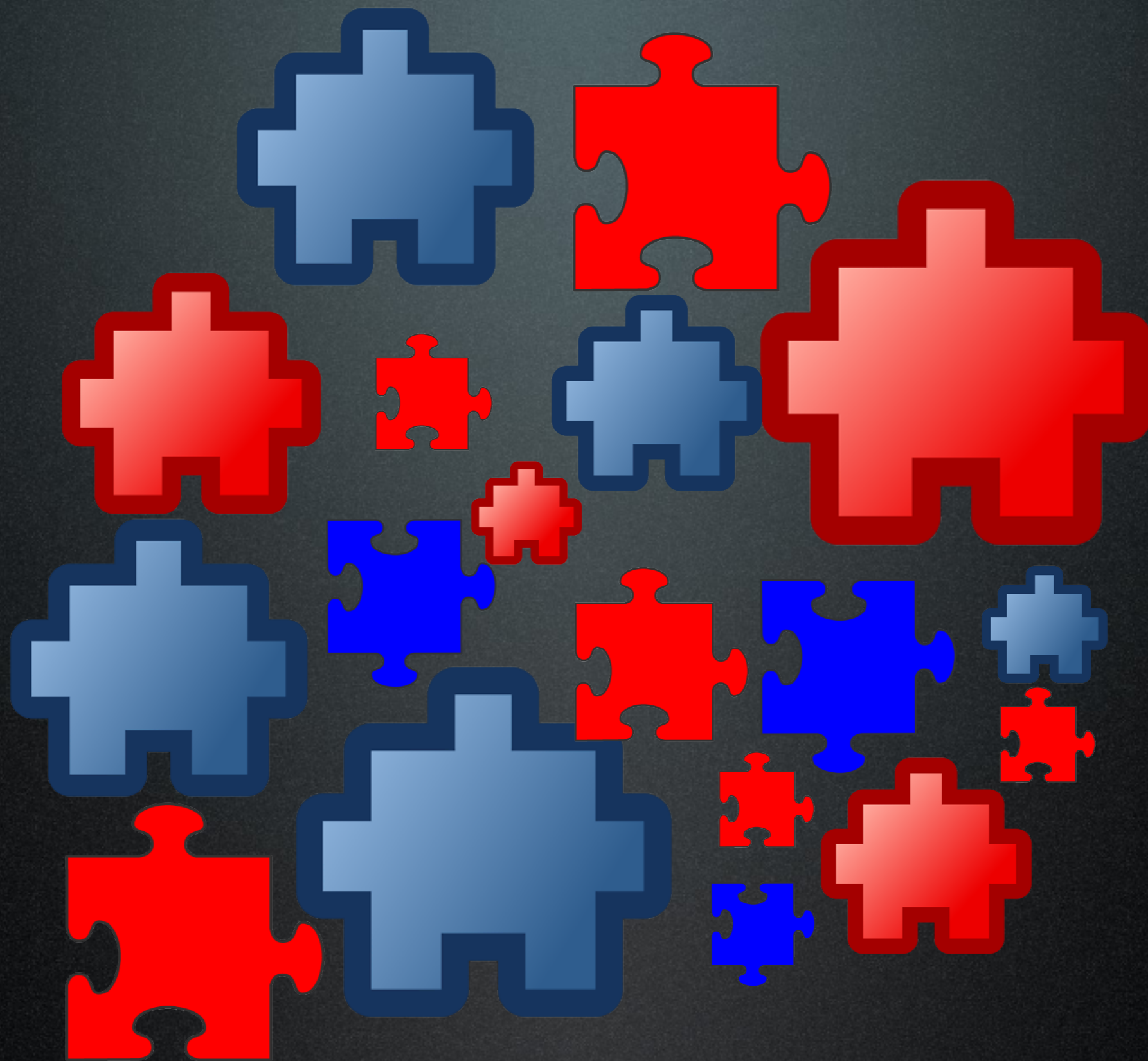
Databases are boring!

Amanda @pandamonical Laucher

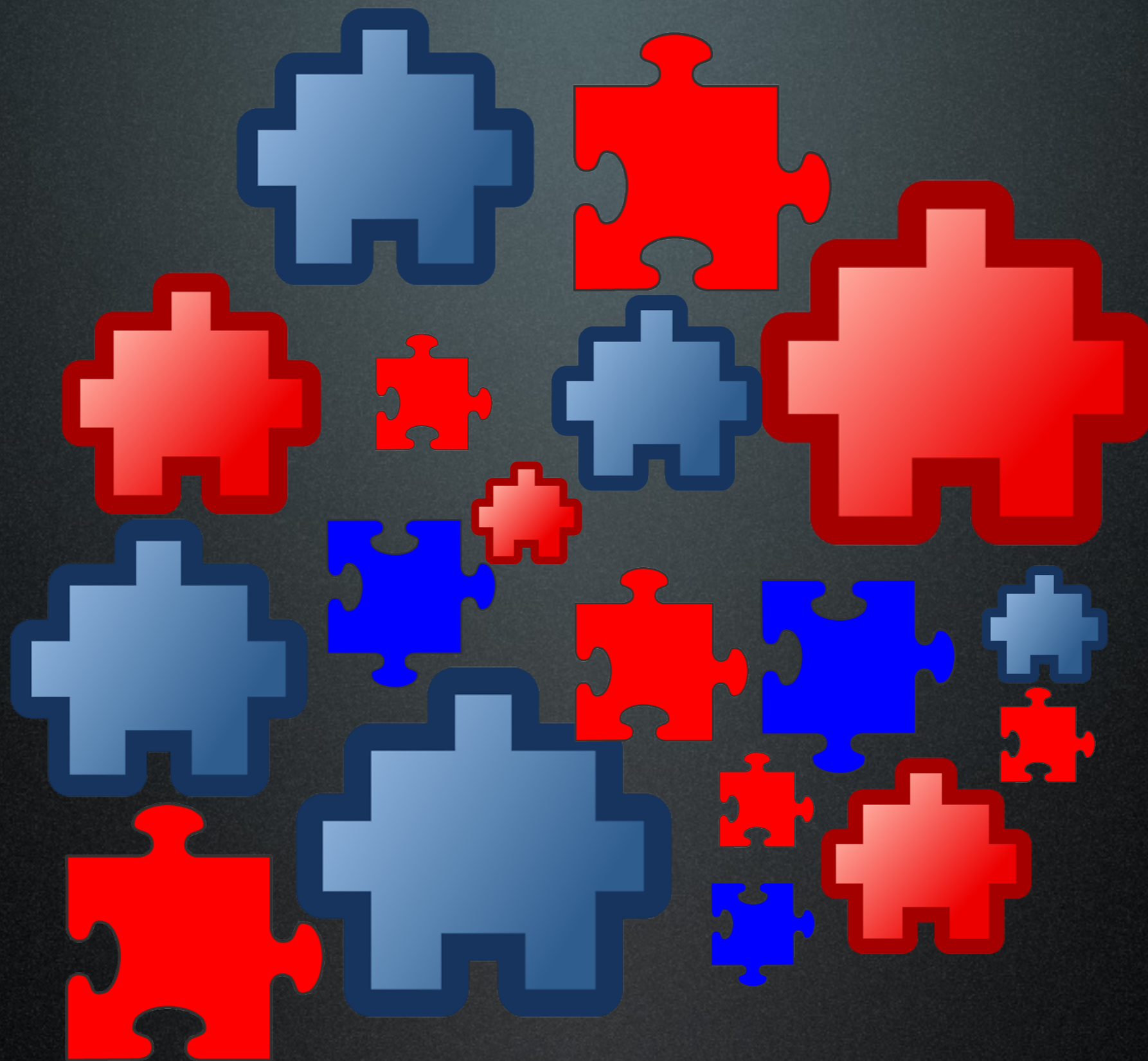


What does a DB do for
YOU



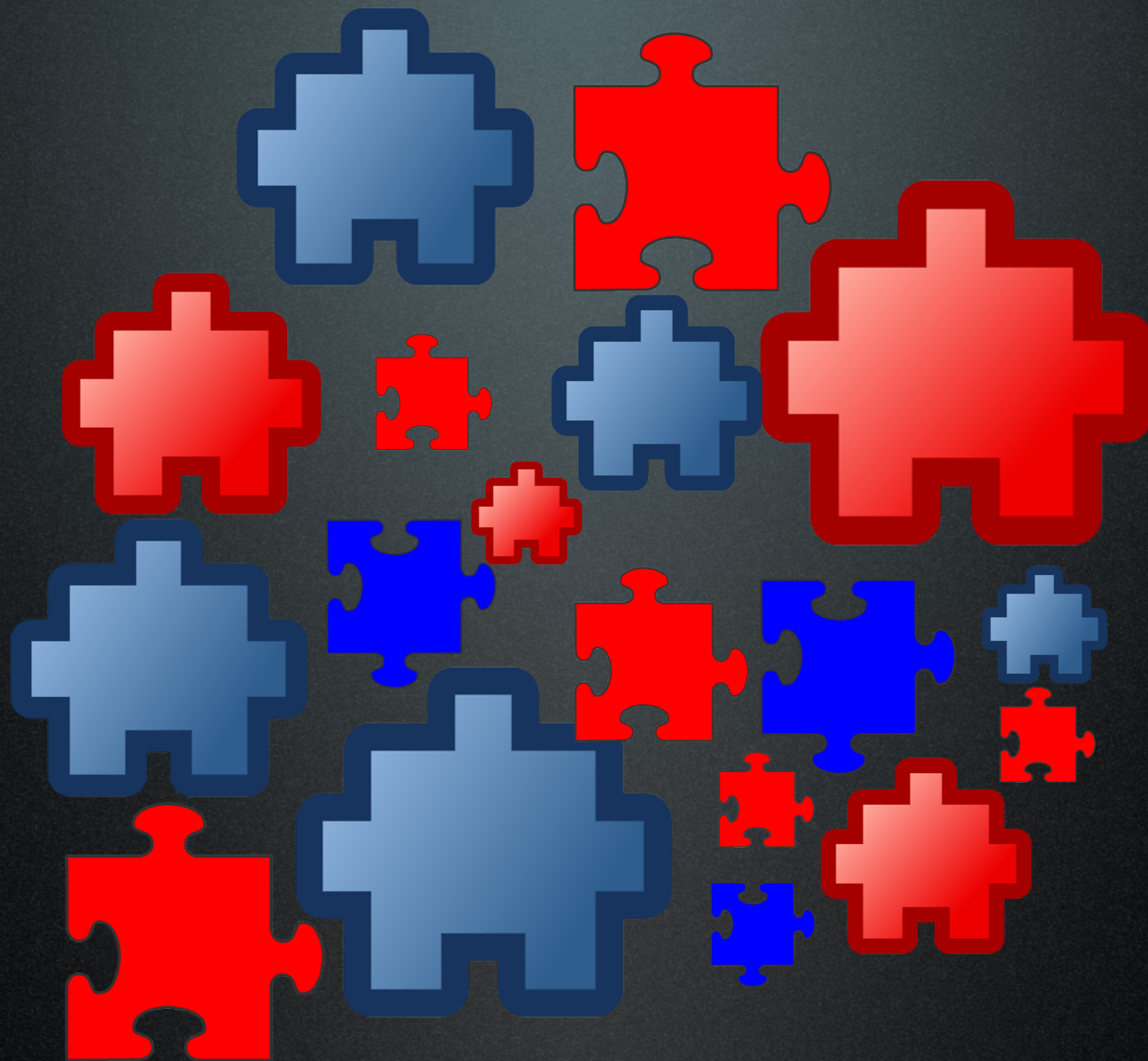








It's a-me,
Mario!



Algorithms are...

Algorithms are
AWESOME!

How writing
applications works

Step 1:
Write some awesome
algorithms

Step 2:

I put mock data into
a data structure that
is interesting to me

Step 3:

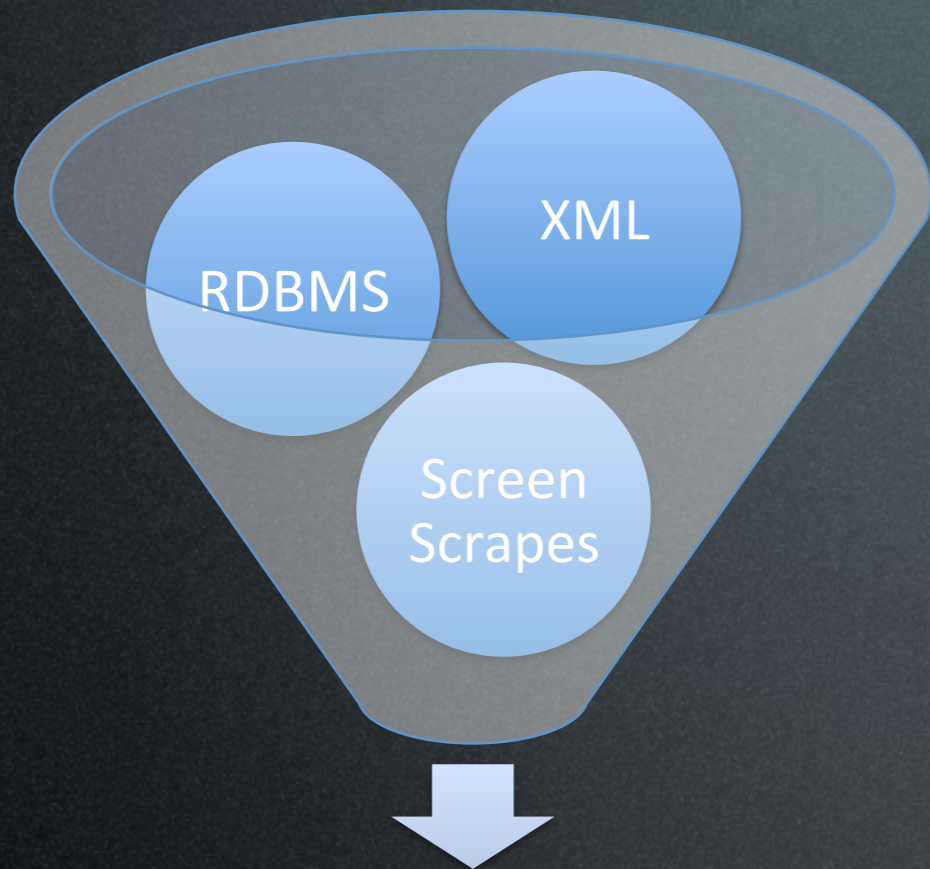
Draw up some fancy
UI so end users are
jolly and they keep
paying me

Step 4:

Let some poor
schmuck connect to
the DBs and get the
data in the format I
need

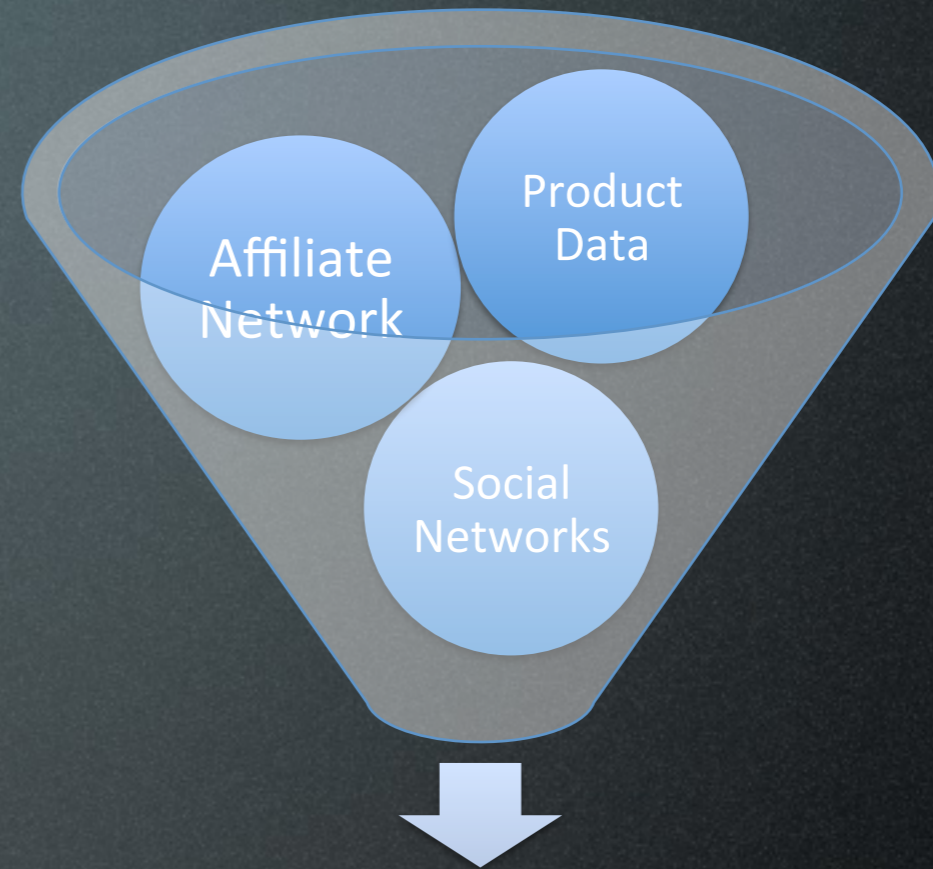
Step 5:
Profit!

Data persistence has
always been an
afterthought

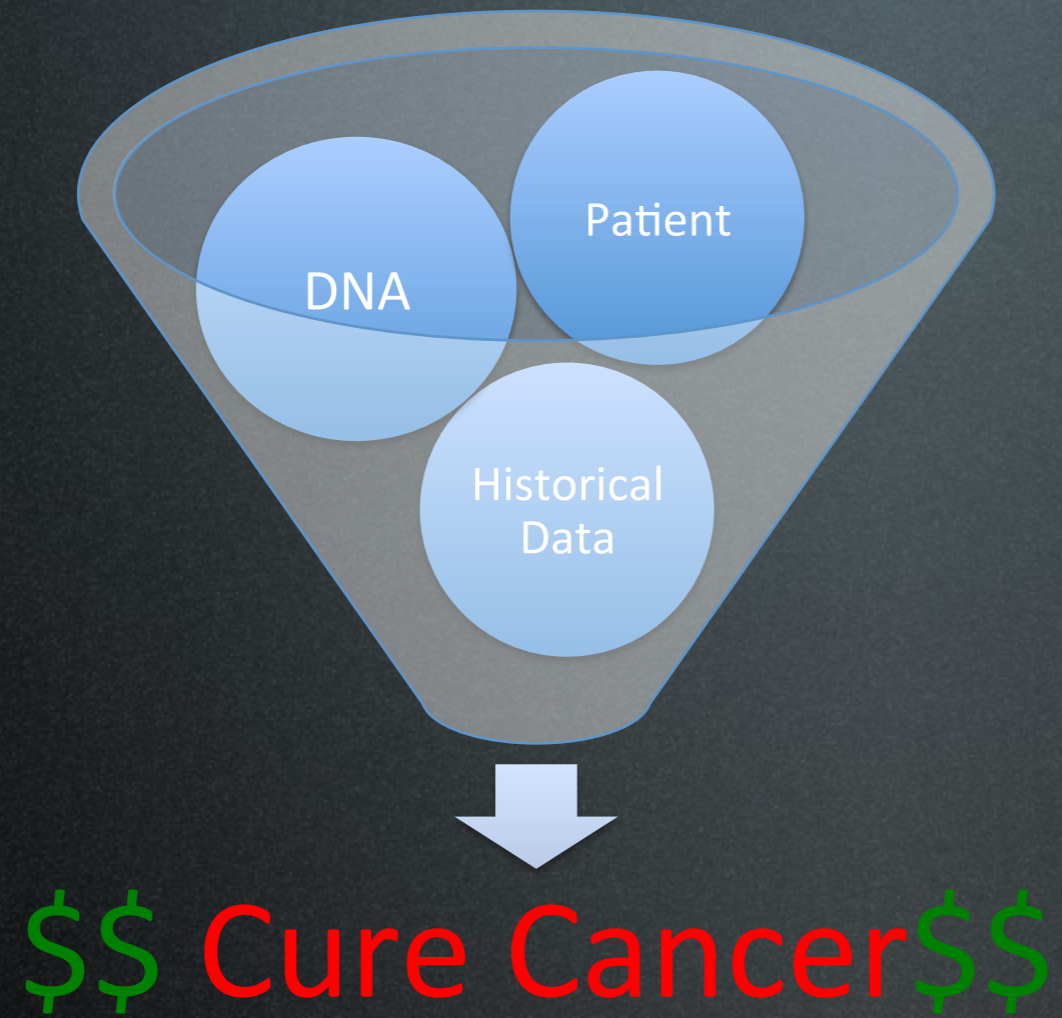


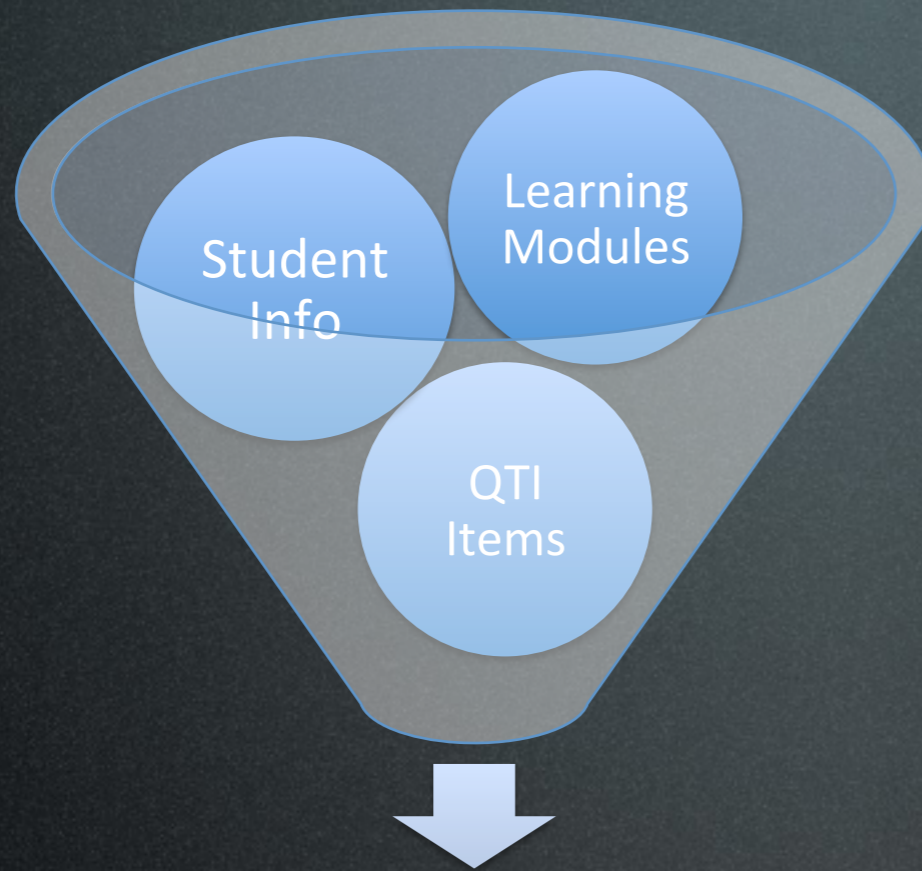
\$\$\$ BIG DATA \$\$\$





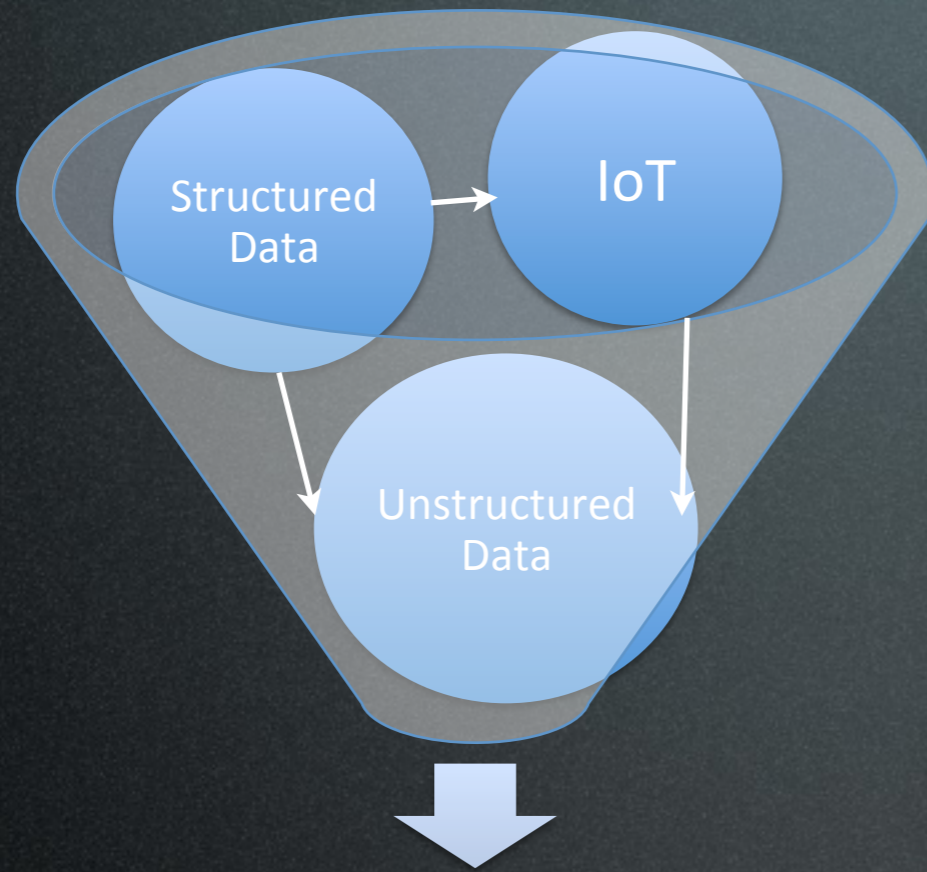
\$\$ Personalized Deals \$\$





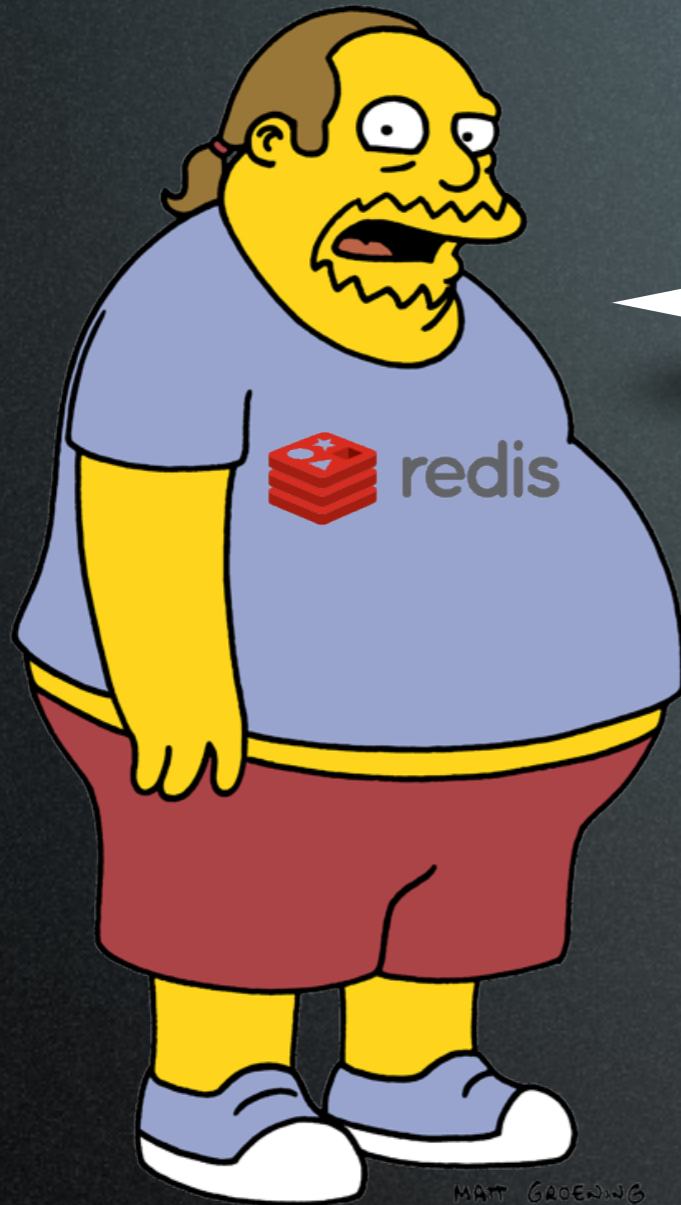
\$\$ Personalized Learning \$\$





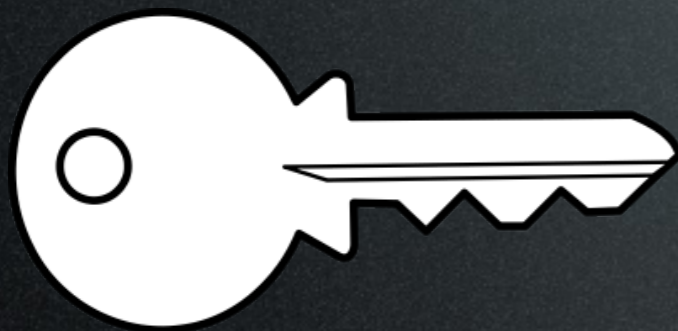
\$\$ Connected Data \$\$





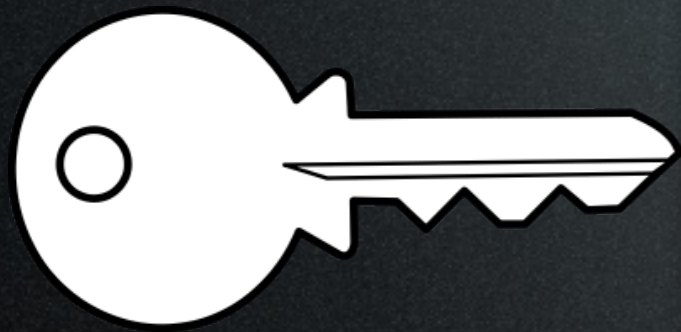
MATT GROENING

Just use a key value store.
Best data storage ever!



Student ID

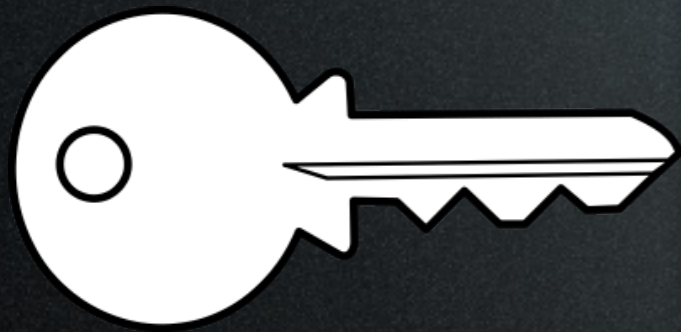
Test
Score



Student ID

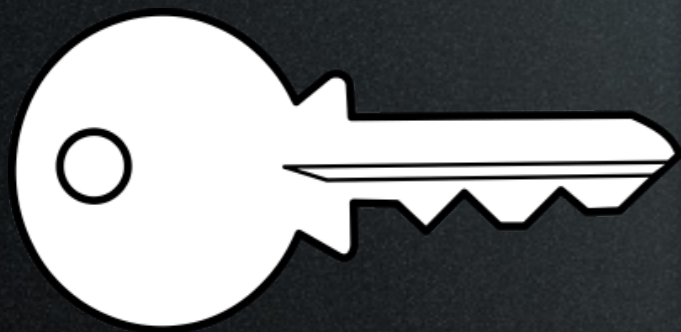
Test Score

Embed
Other Stuff



Student ID

Test Score Test Question



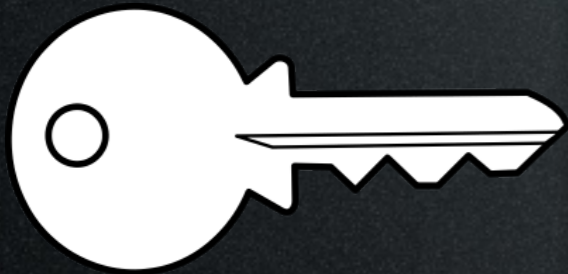
Student ID

Test Score

Test Question

Concept
Alignment

OUT OF SCREEN ERROR!!!

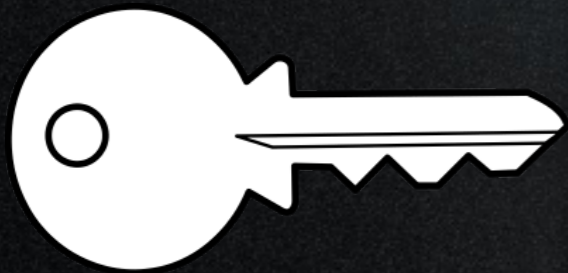


Student ID

Test Score

Test Question

Concept
Alignment



Student ID

Test Score

Test Question

Concept
Alignment



Test Score

Test Question

Concept
Alignment



HA HA!

Use a document
database. It will be...
Excellent



MAT GEORGINIS

Assessment 1

Tiny Tim

Test Question 1

Test Question 2

Test Question 3

Assessment 1
Tiny Tim

Test Question 1
Test Question 2
Test Question 3
Test Question 4

Test Question 1

$$1 + 1$$

Test Question 2

$$1 * 1$$

Test Question 3

$$1 - 1$$

Test Question 4

$$\frac{1}{1}$$

Assessment 1
Tiny Tim

Test Question 1
Test Question 2
Test Question 3
Test Question 4

Test Question 1
Test Concept 1

$$1 + 1$$

Test Question 2
Test Concept 2

$$1 * 1$$

Test Question 3
Test Concept 2

$$1 - 1$$

Test Question 4
Test Concept 3

$$\frac{1}{1}$$

Assessment 1
Tiny Tim

Test Question 1
Test Question 2
Test Question 3
Test Question 4

Test Question 1
Test Concept 1

1 + 1

Test Question 2
Test Concept 2

1 * 1

Test Concept 2
Multiplication

Test Concept 3
Division

Assessment 2
Tiny Tim

Test Question 1
Test Question 3
Test Question 4
Test Question 2

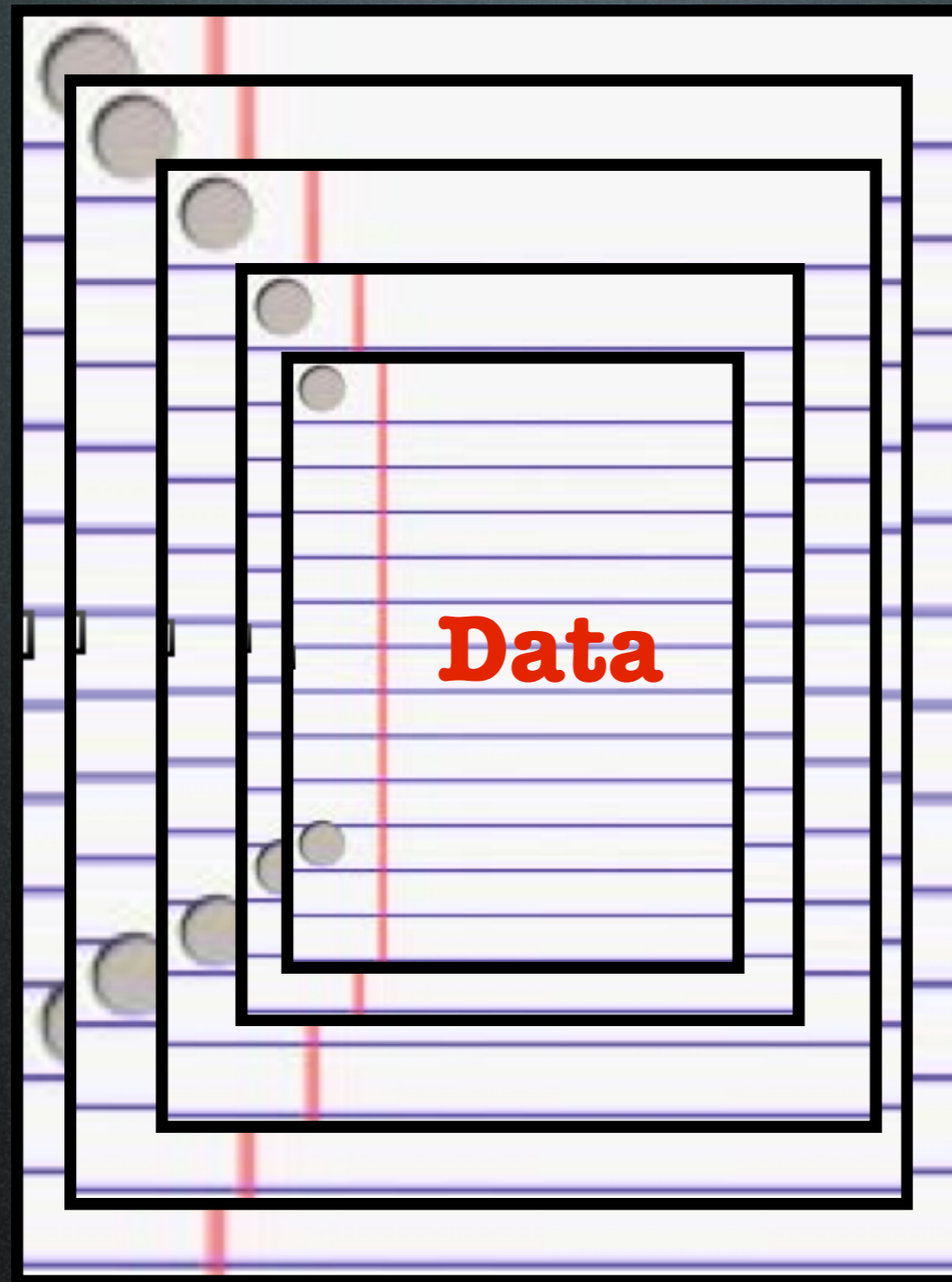
Test Question 3
Test Concept 2

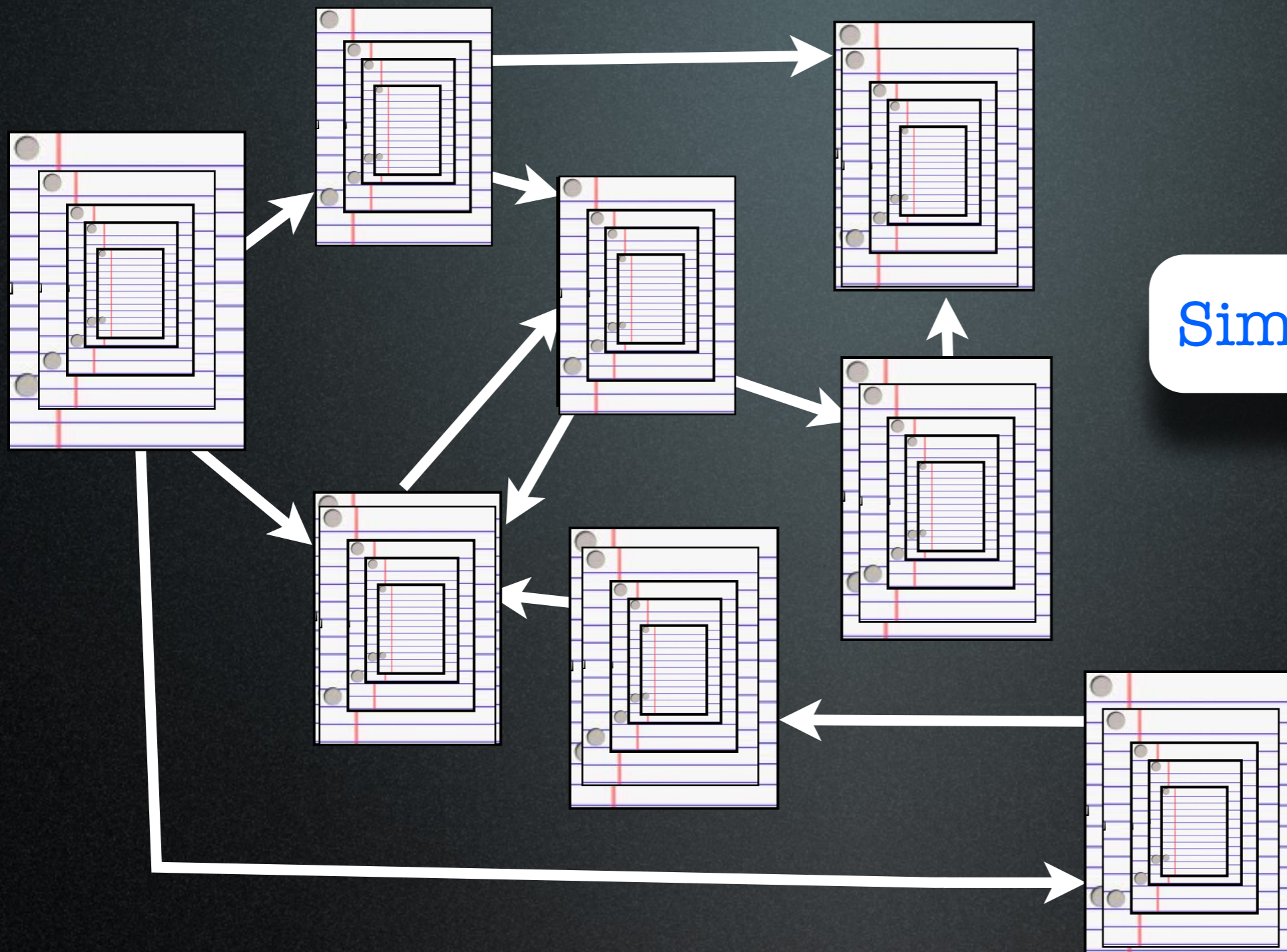
4 * 8

Test Question 4
Test Concept 3

$\frac{1}{1}$

Test Concept 1
Addition





Simple!



What the...!

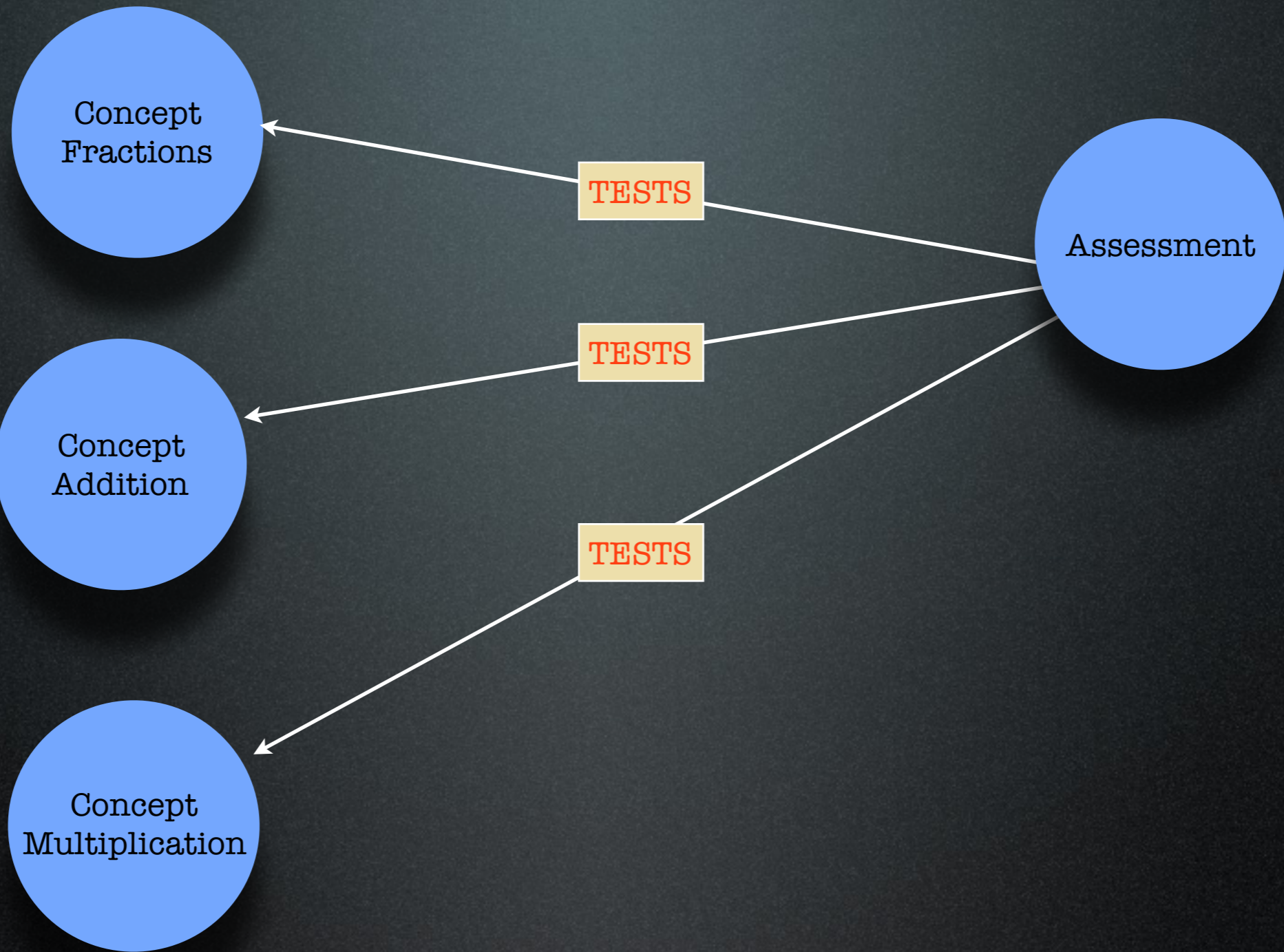


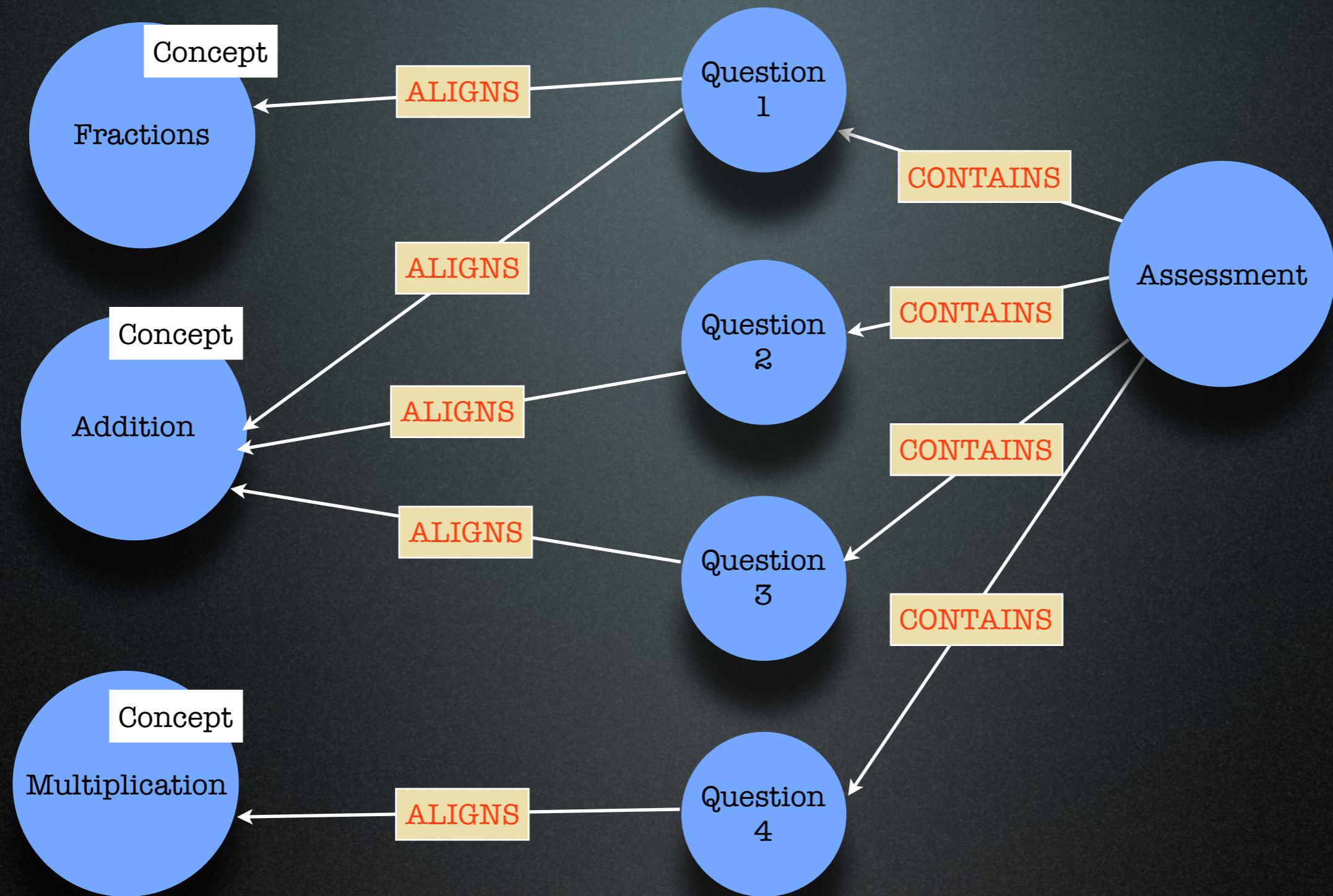


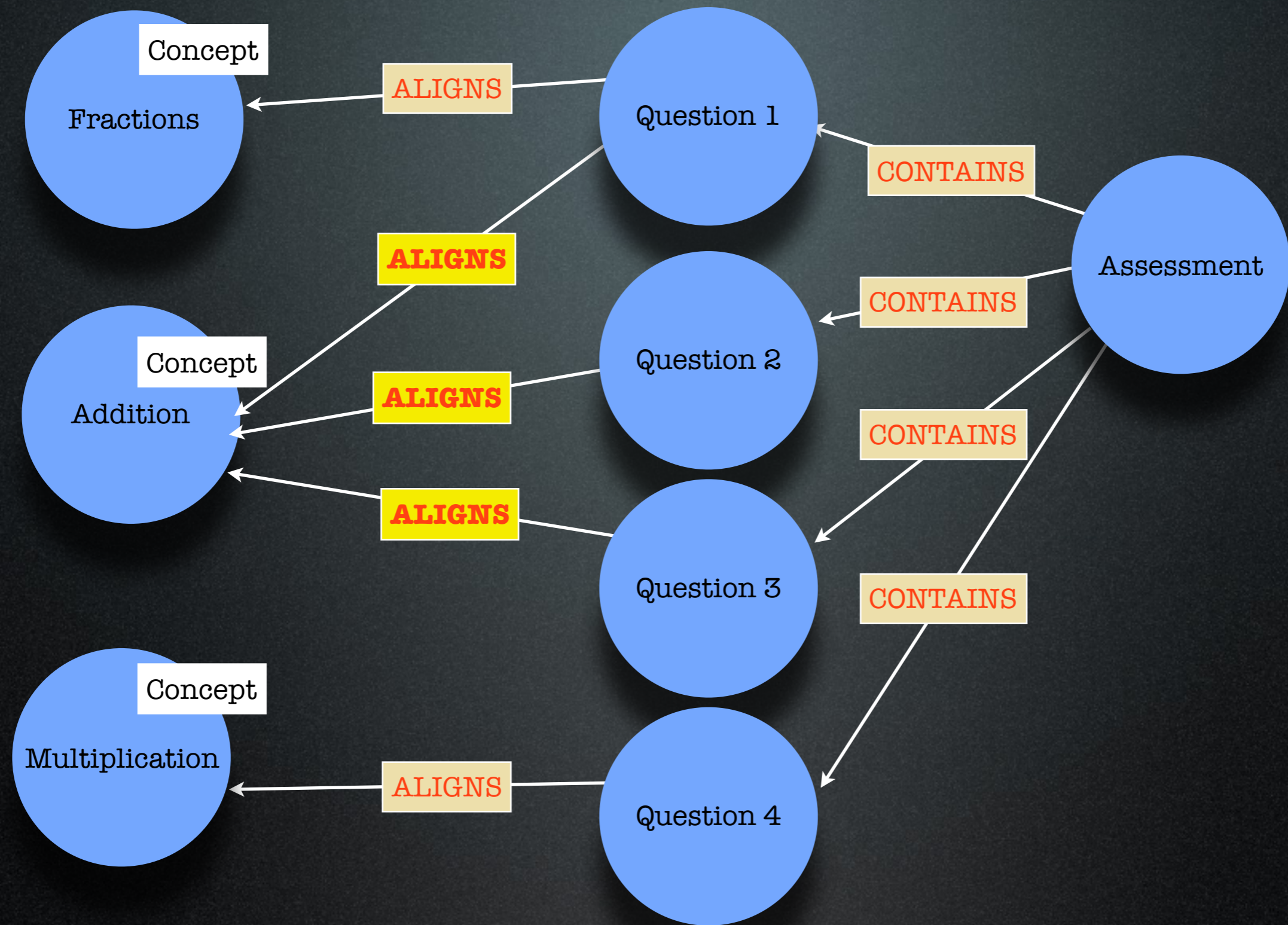
Seems like an index
free adjacency problem
[0,1,1,
1,0,1,
1,1,0]

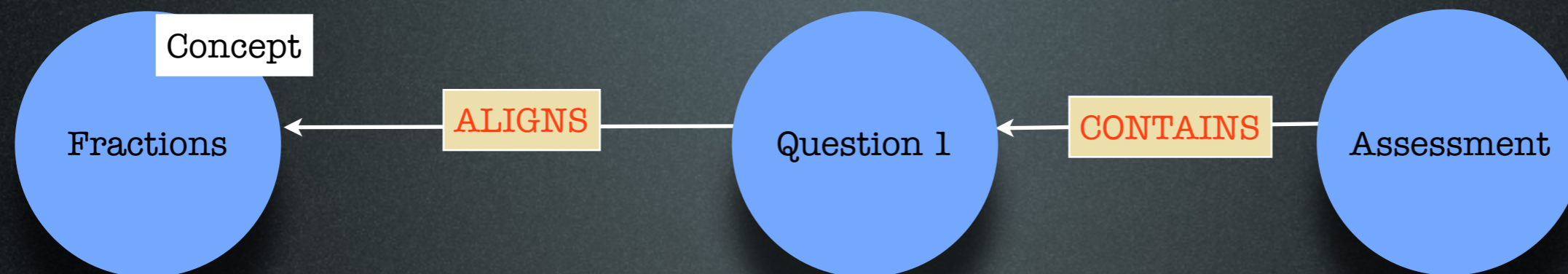


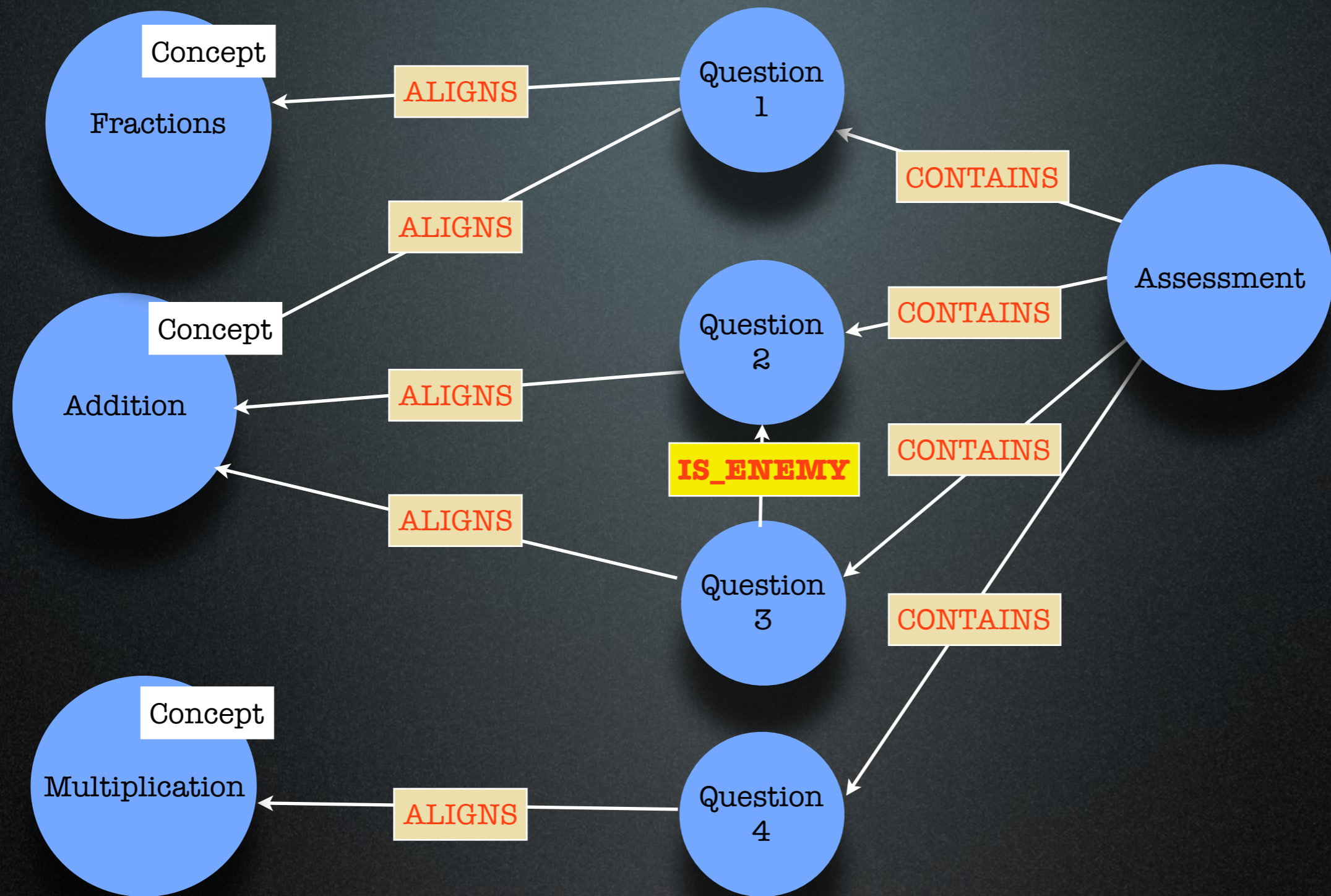
He means a graph
database, boss











$120 + 470 =$

a) 590

b) 420

c) 690





$120 + 470 =$
a) 590
b) 420
c) 690



$120 + 470 =$





$$120 + 470 =$$

a) 590

b) 420

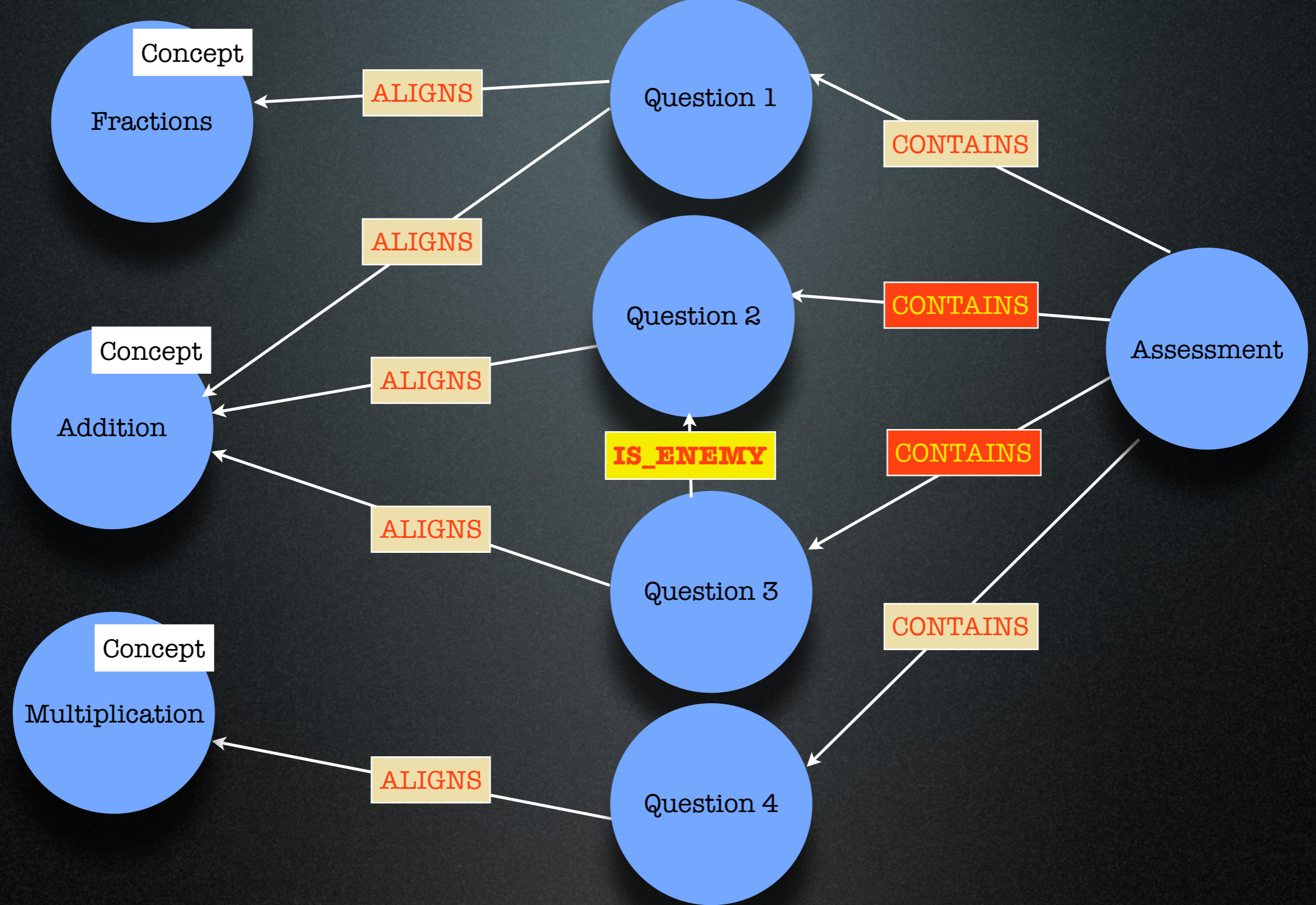
c) 690

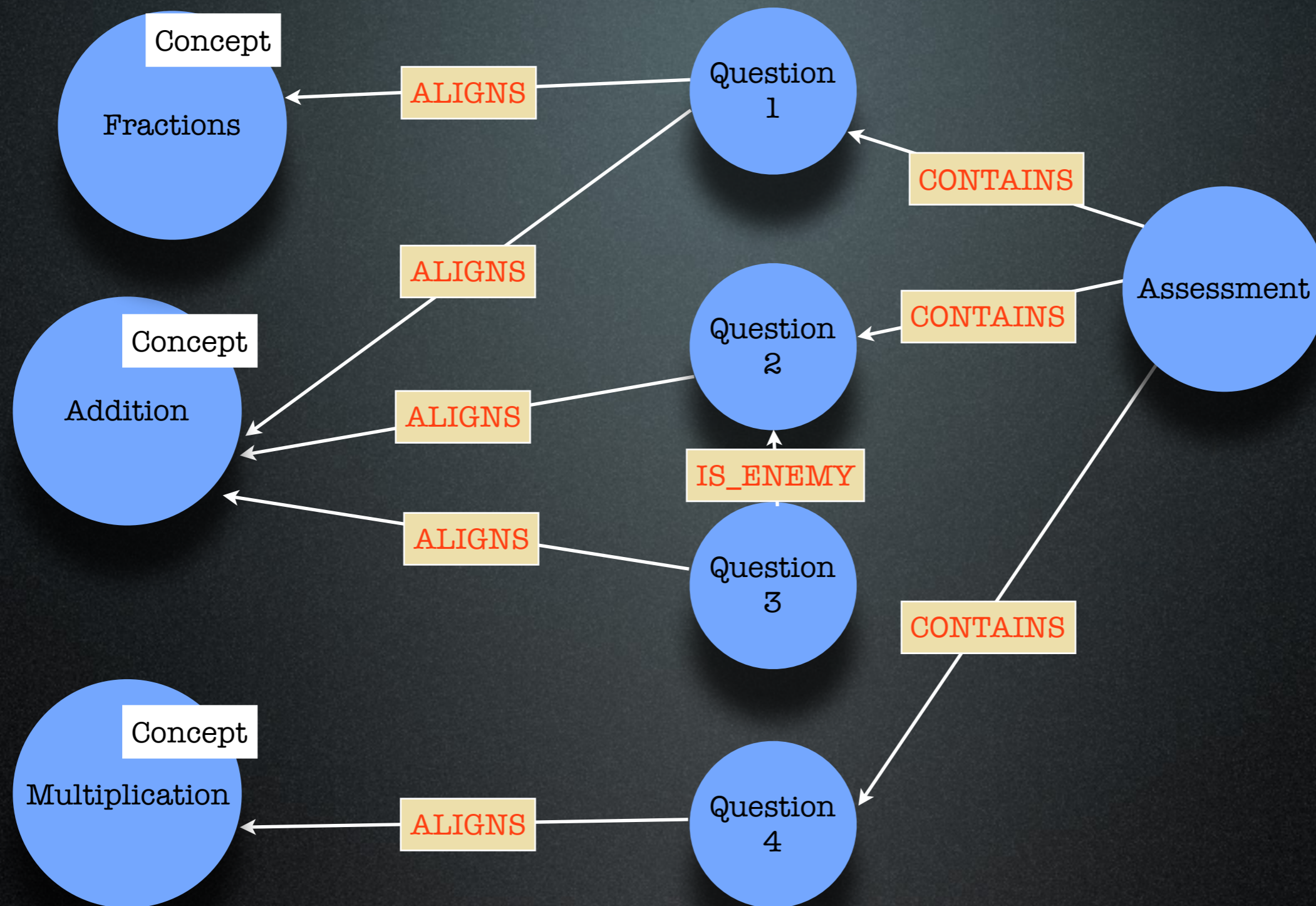


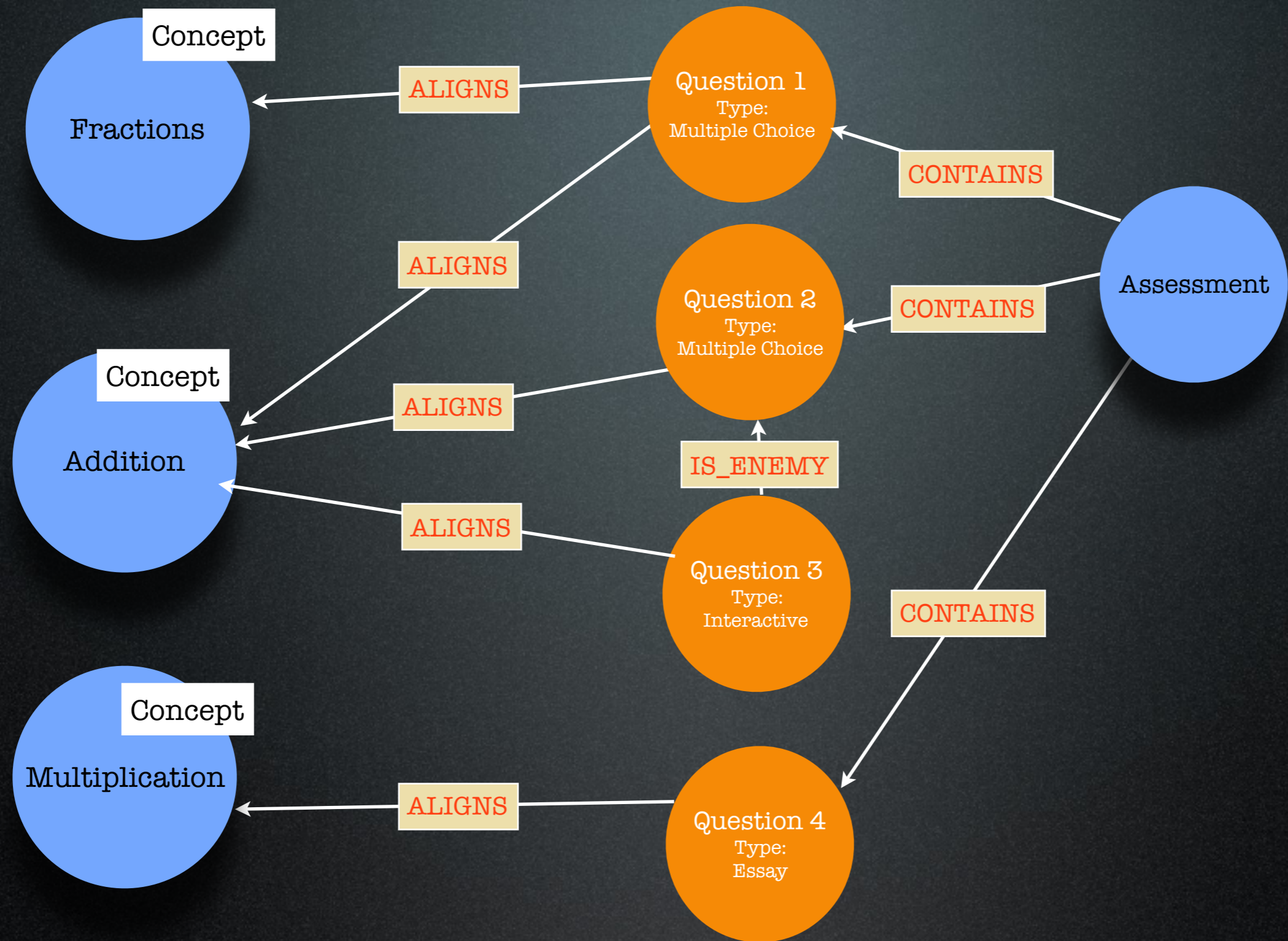
$$120 + 470 =$$

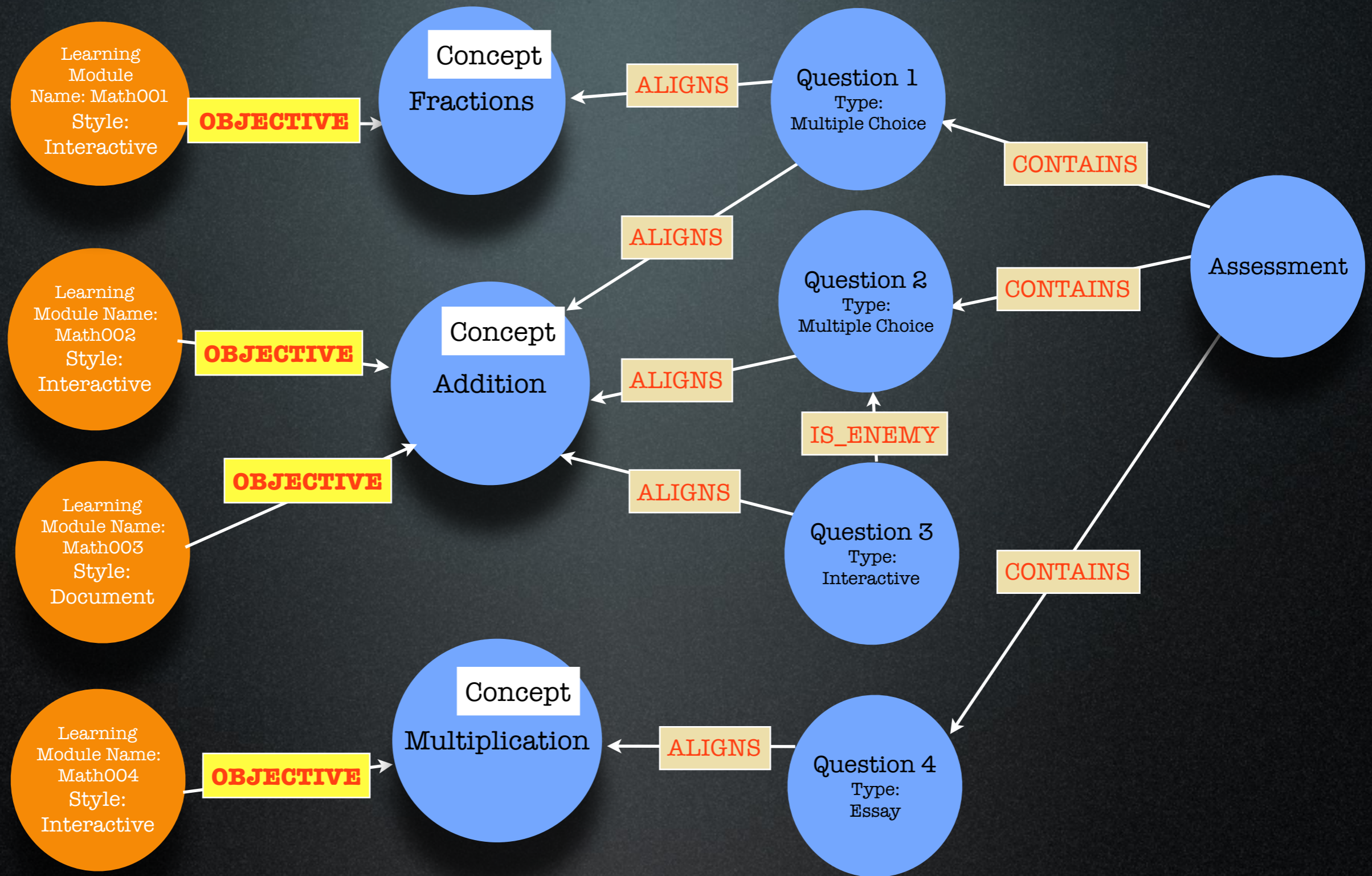
ENEMIES!!!

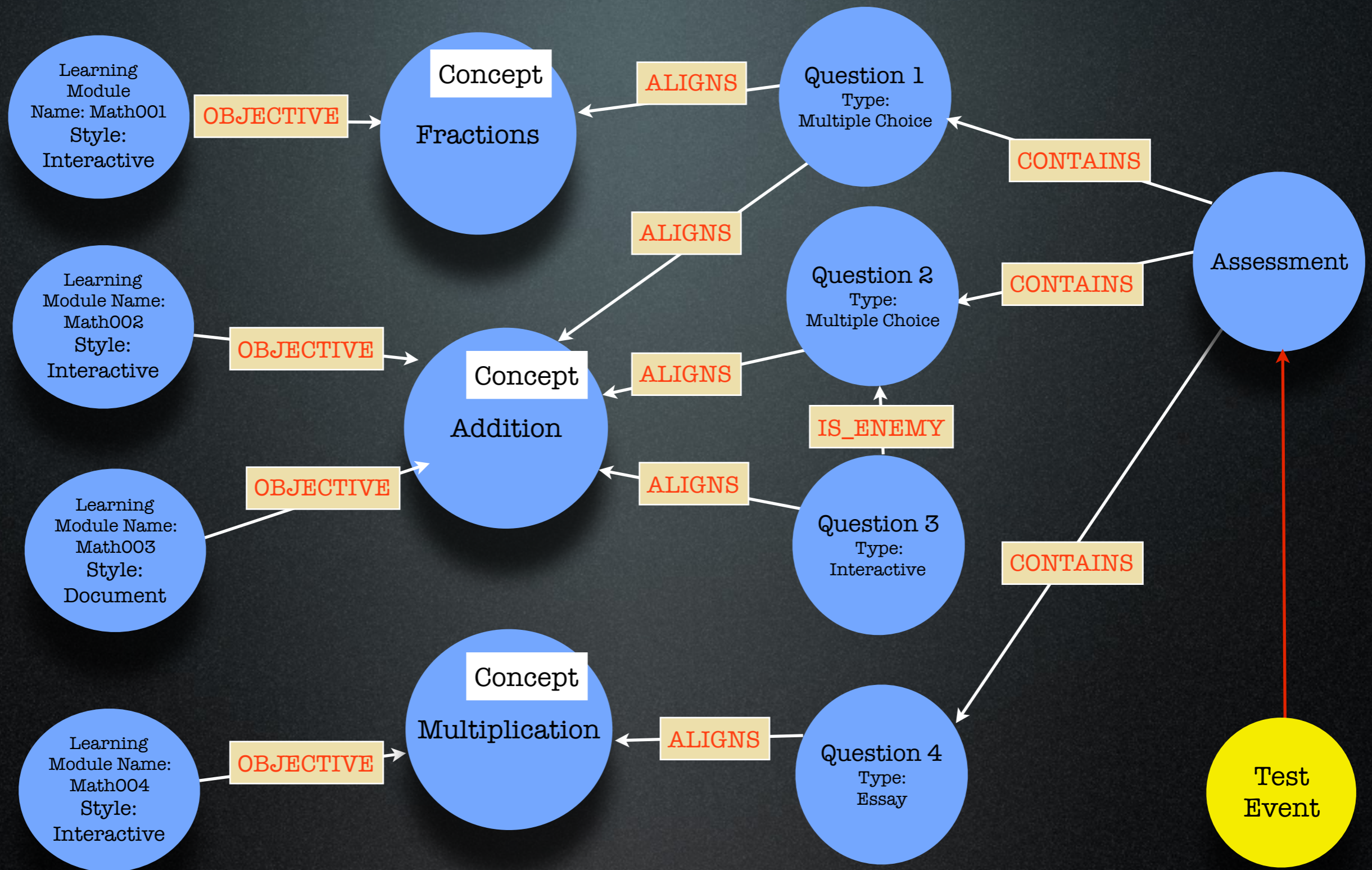


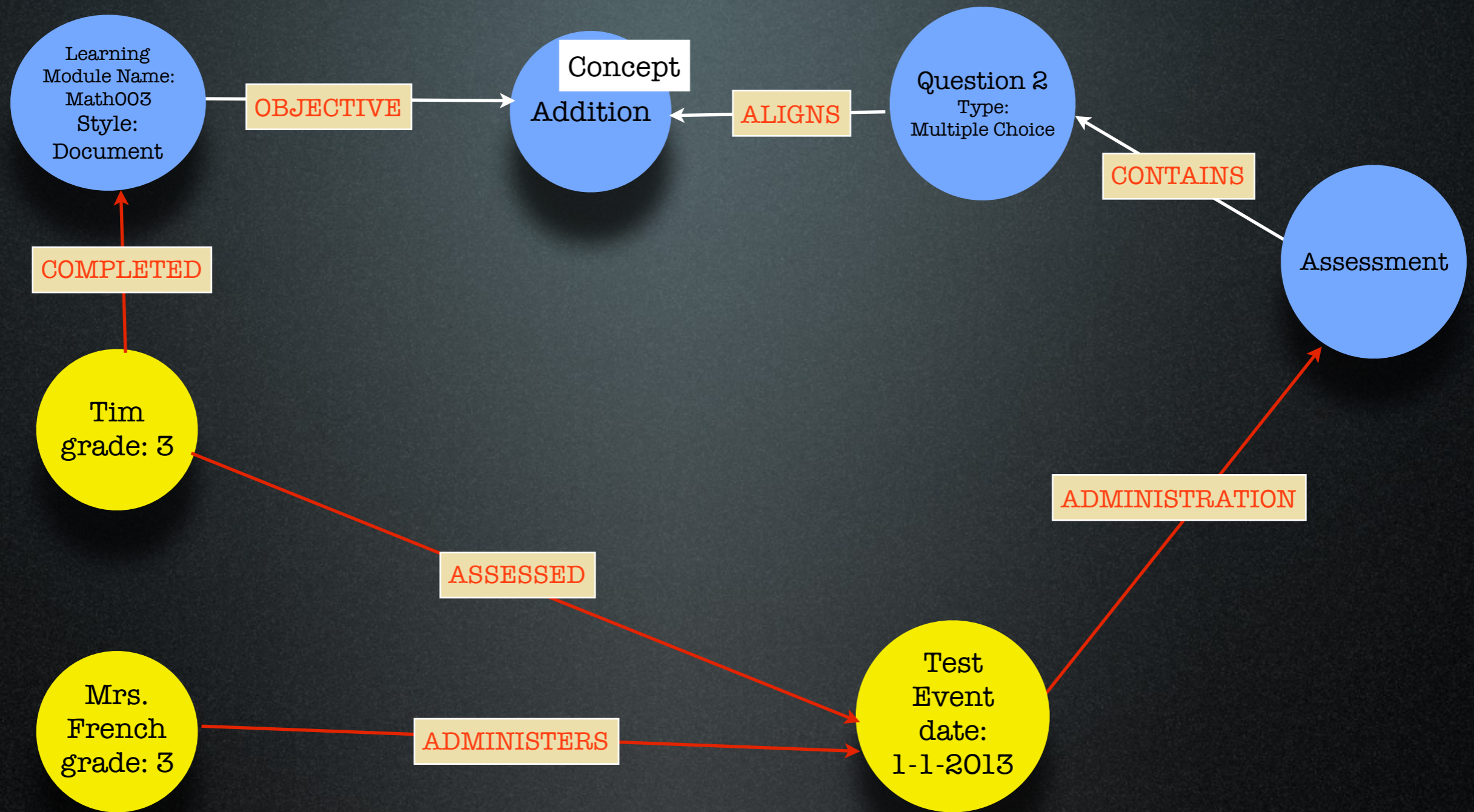


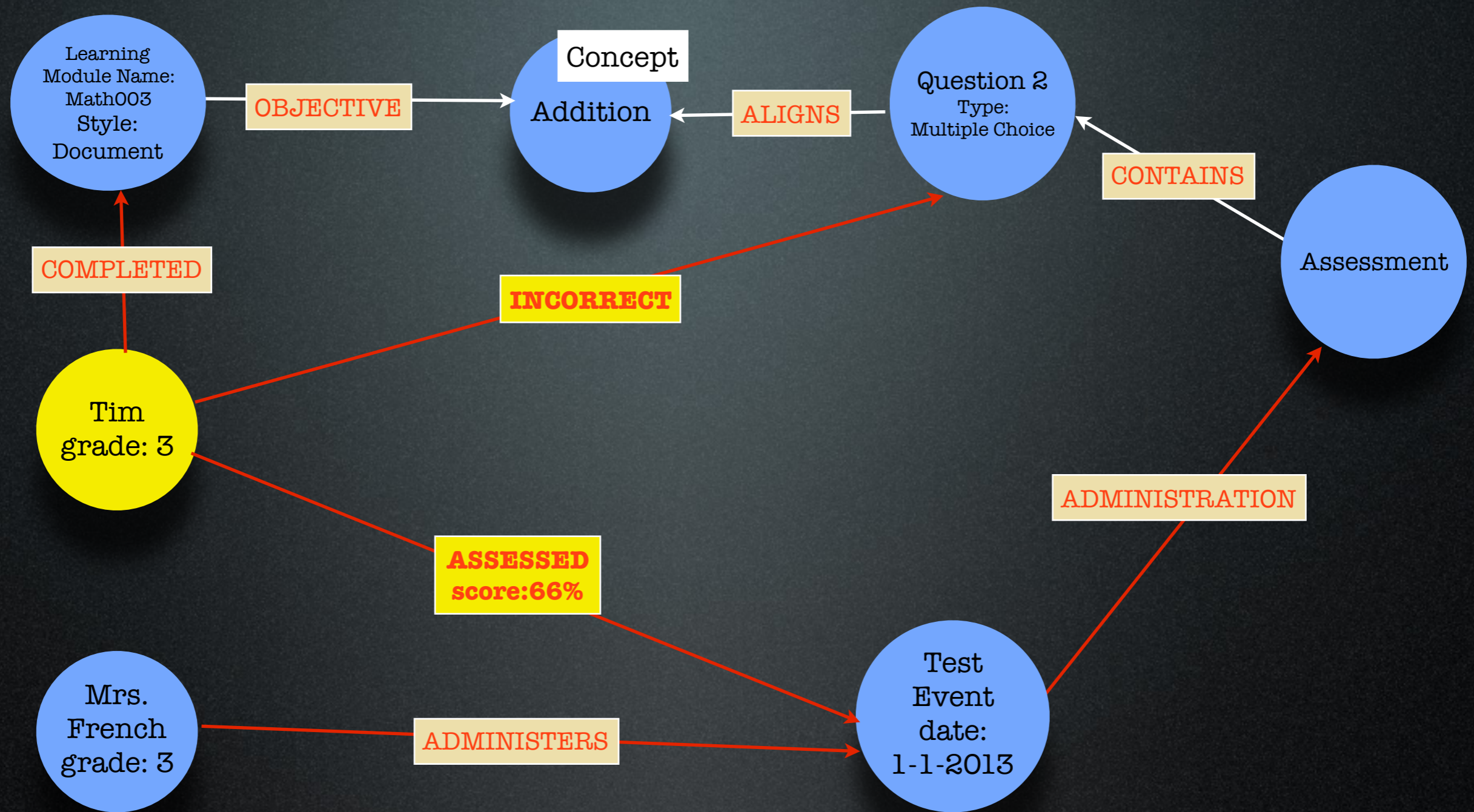


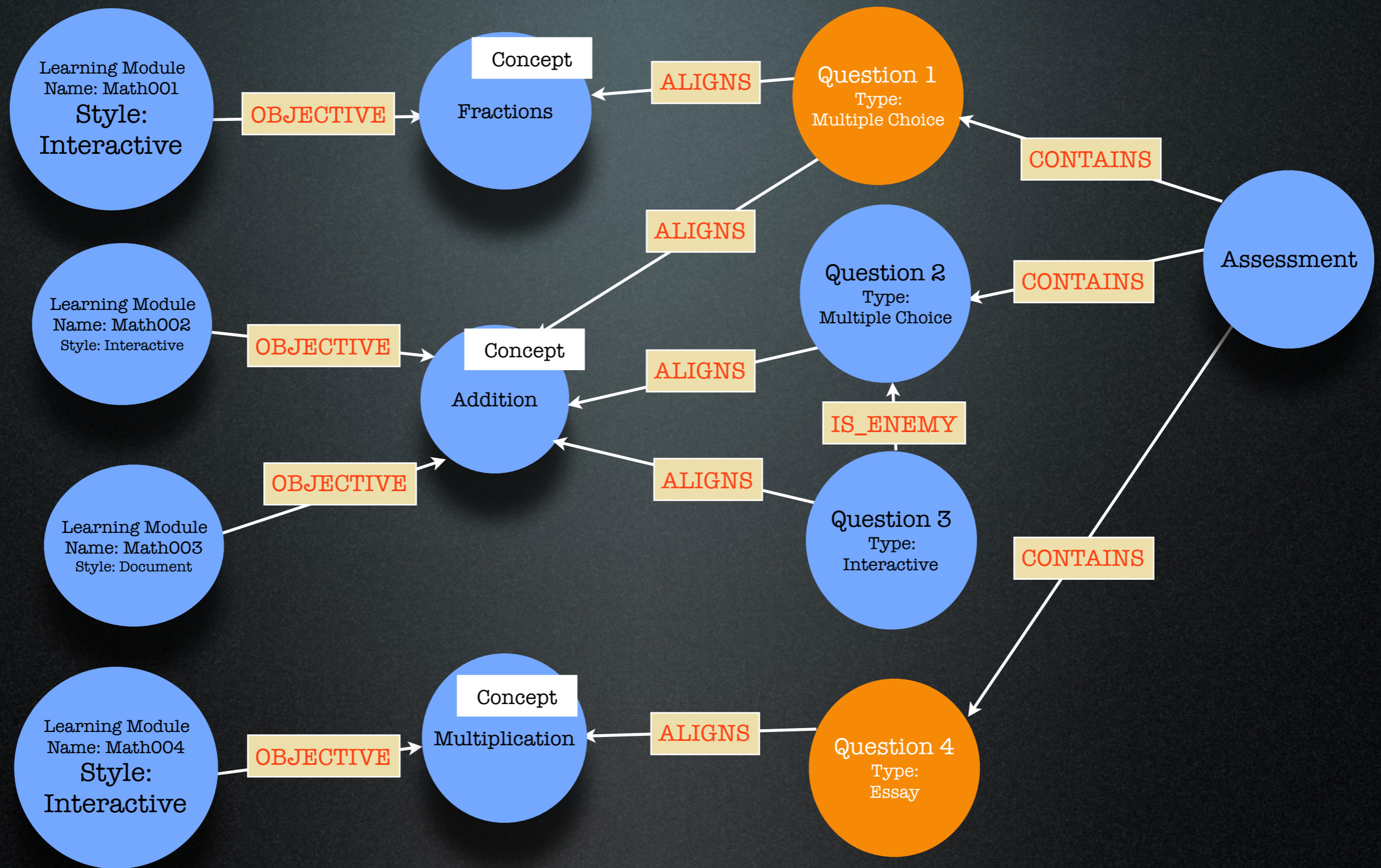


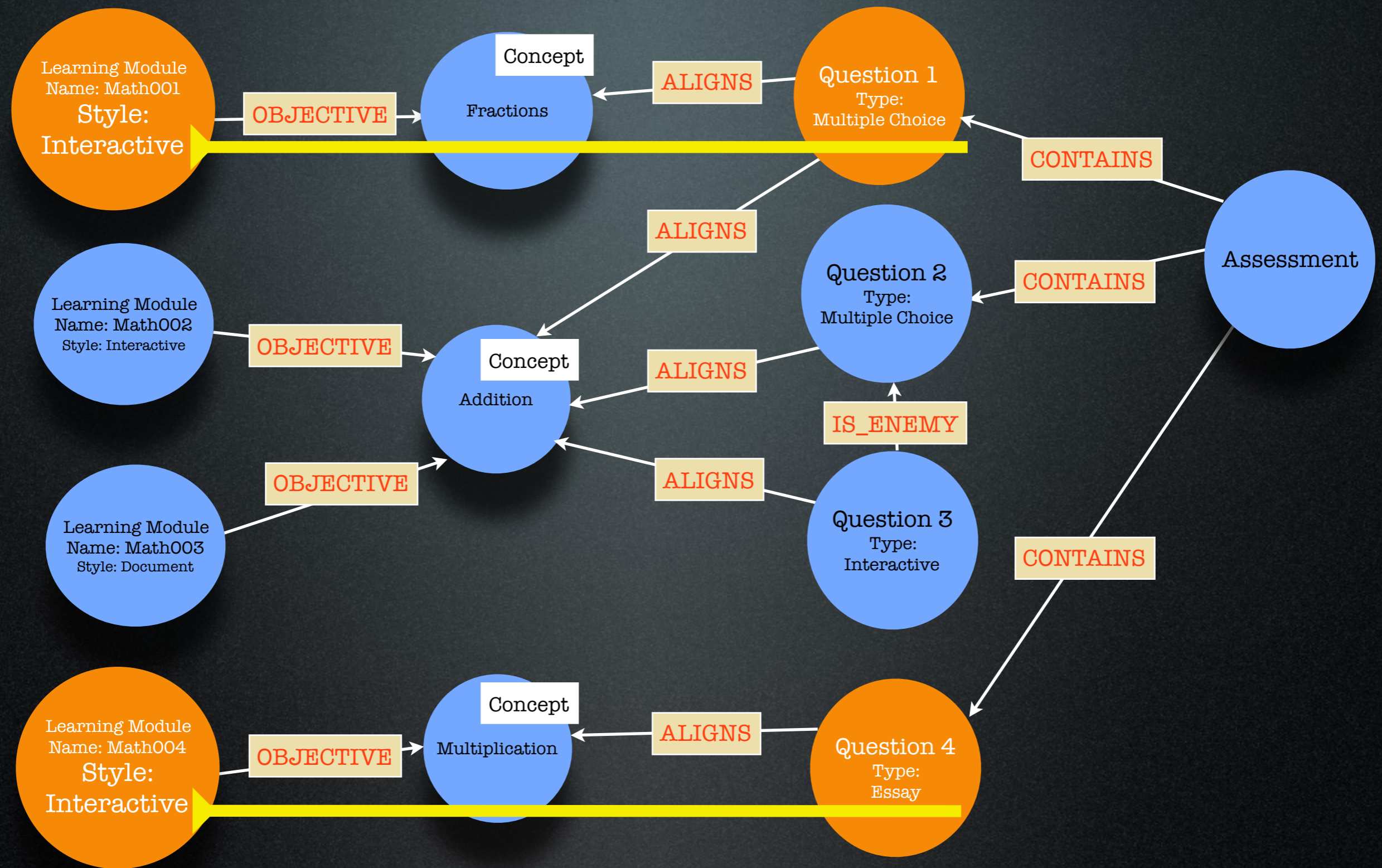


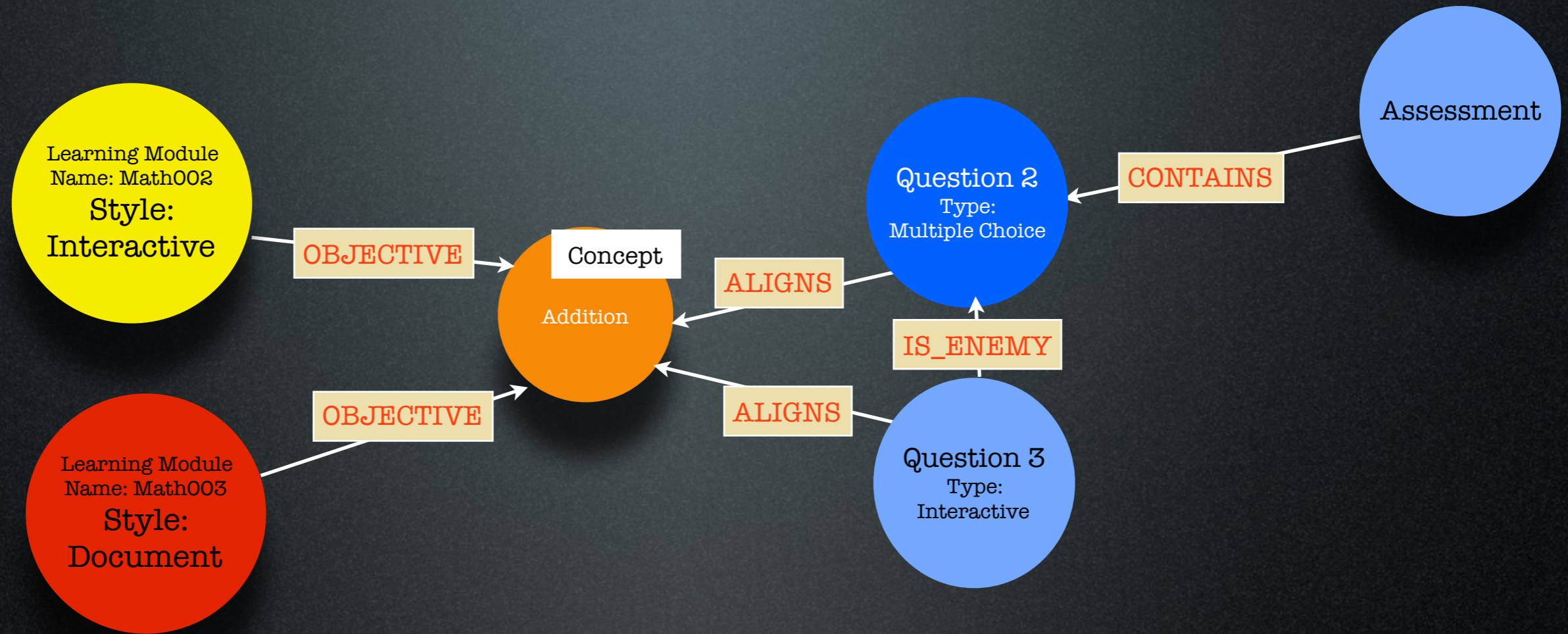


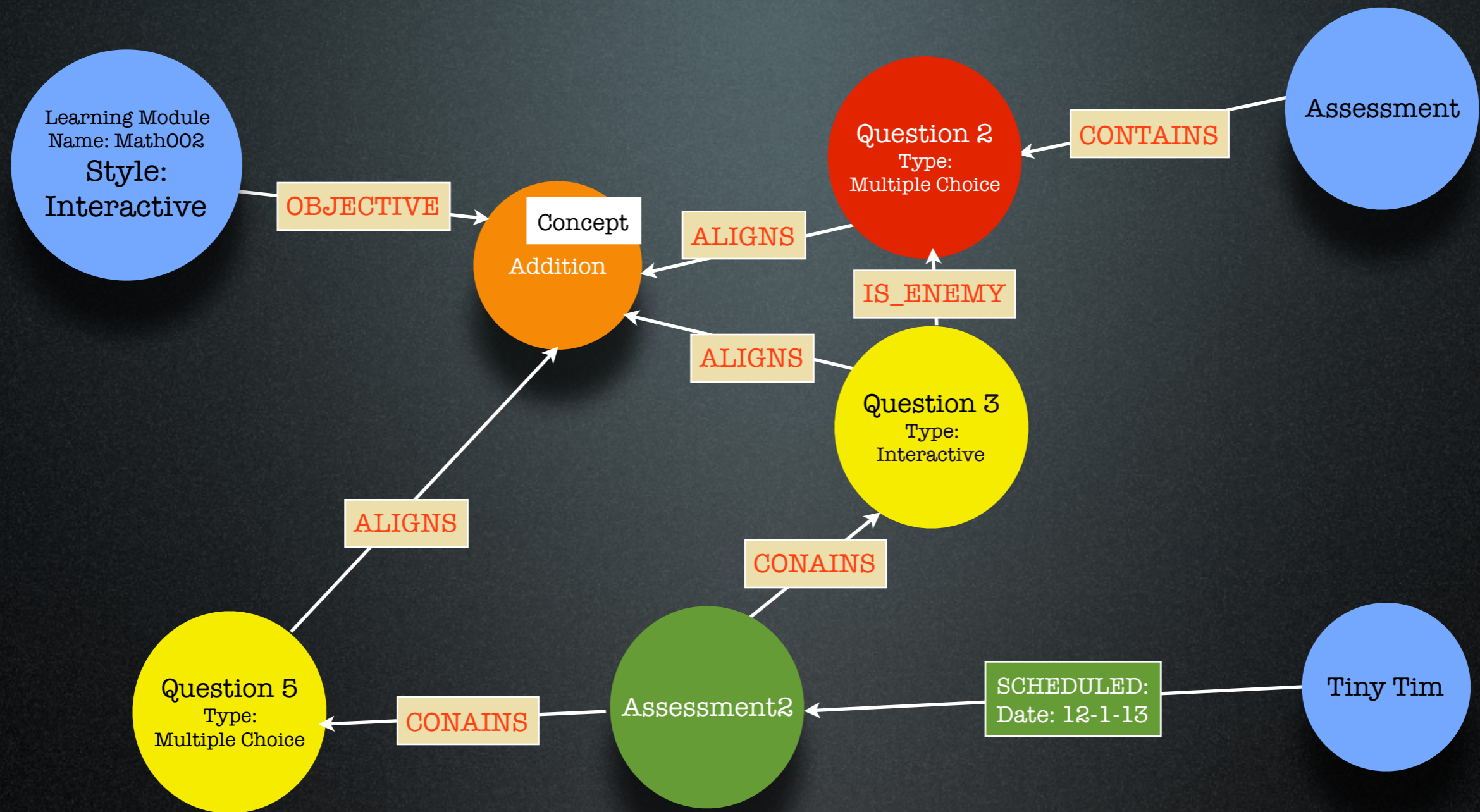












Like I said, boys, a
graph database! Let's
see how it works.



Come for the connected data, stay for the Cypher

<http://localhost:7474/browser/>



Data storage is no
longer an
afterthought

LEARNING MODULE RECOMMENDATION...
CLASSROOM ASSIGNMENT...
TEST CREATION...
ADAPTIVE TESTING...
STUDENT PAIRING REFERRAL...
OTHERS?

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