LOAD

- Input is assumed to be a bag (sequence of tuples)
- Assumes that every dataset is a sequence of tuples
- Specify a parsing function with "USING"
- Specify a schema with "AS"

A = LOAD 'myfile.txt' USING PigStorage('\t') AS (f1,f2,f3);

```
<1, 2, 3>
```

FILTER: Getting rid of data

- Arbitrary boolean conditions
- Regular expressions allowed
 \$0 matches apache

```
Y = FILTER A BY f1 == '8';
```

GROUP: Getting data together

X = GROUP A BY f1;

- first field will be named "group"
- second field has name "A"

DISTINCT: Getting rid of duplicates

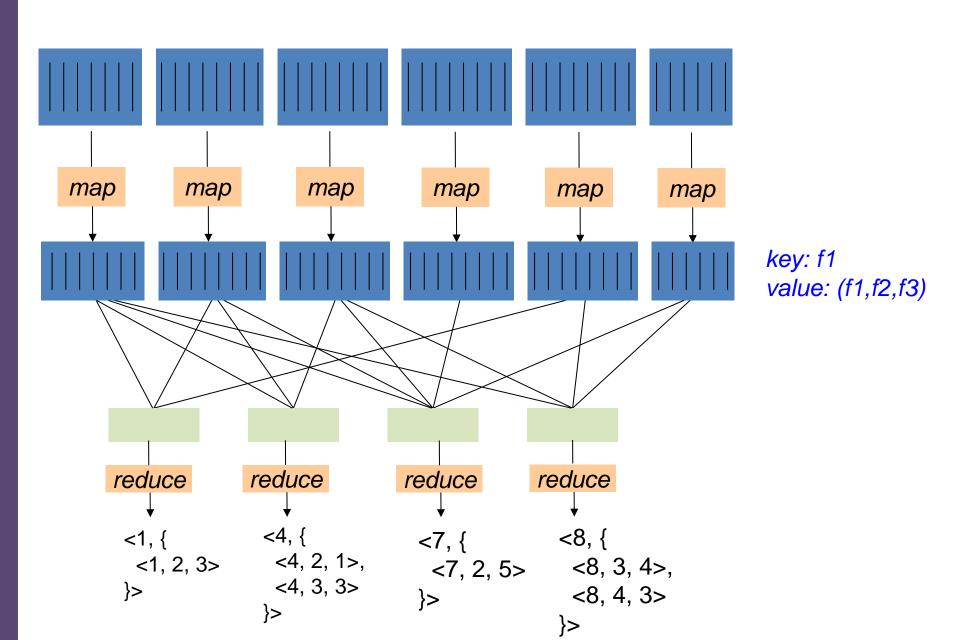
Y = DISTINCT A

Claim:

DISTINCT A == GROUP A BY (f1, f2, f3)

Not quite: <<1, 2, 3>, {<1,2,3>} >
< <8, 3, 4>, {<8,3,4>} >





FOREACH: Manipulate each tuple

X = FOREACH A GENERATE f0, f1+f2;

You can call UDFs

```
Y = GROUP A BY f1;
Z = FOREACH X GENERATE group, X.($1, $2);
```

You can manipulate nested objects

using the FLATTEN keyword

```
Y = GROUP A BY f1;
Z = FOREACH X GENERATE group, FLATTEN(X);
```

I don't like this, because FLATTEN has no well defined type. It's "magic"