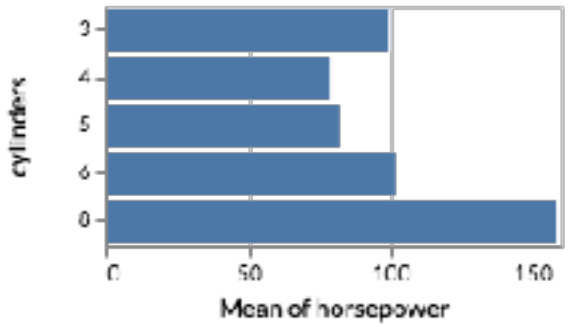
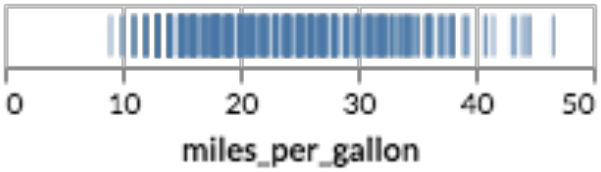
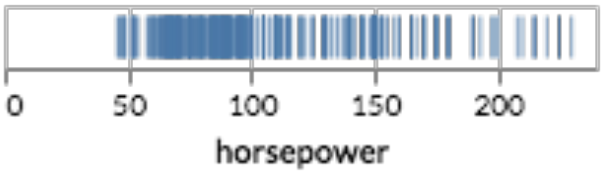
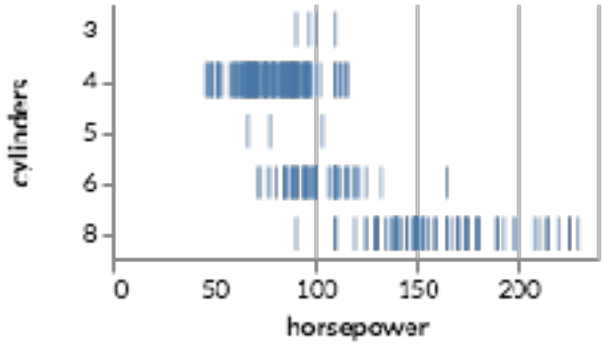
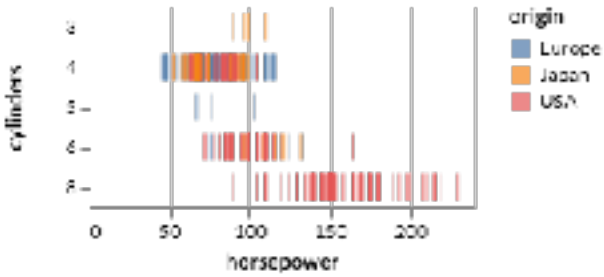
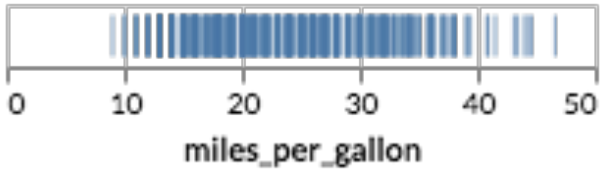
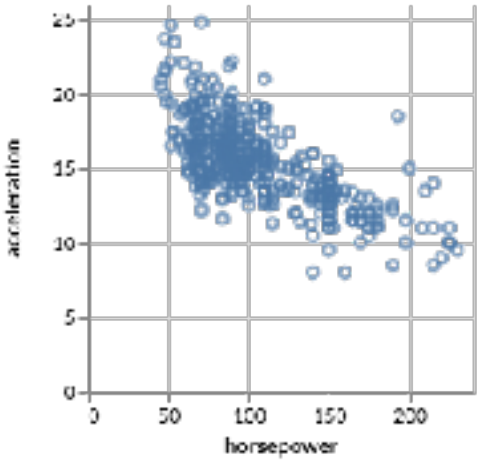
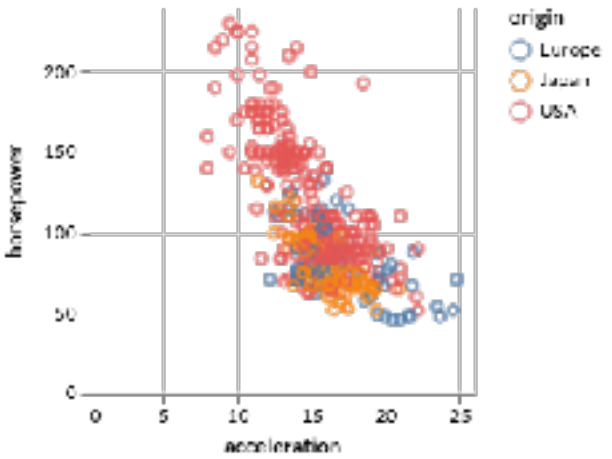
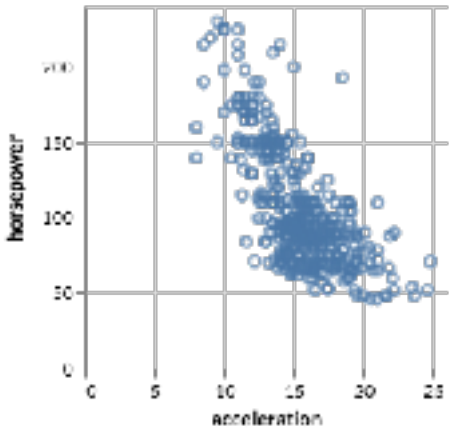
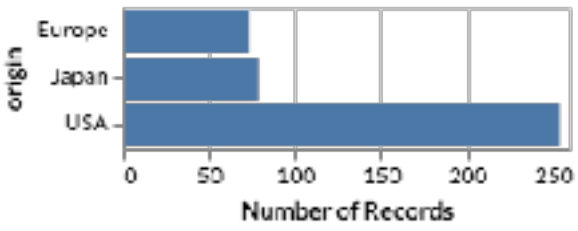
Examples

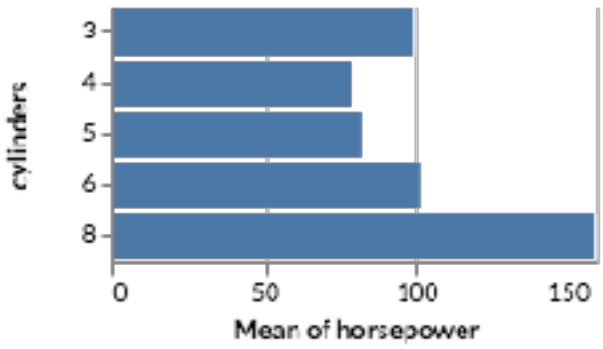
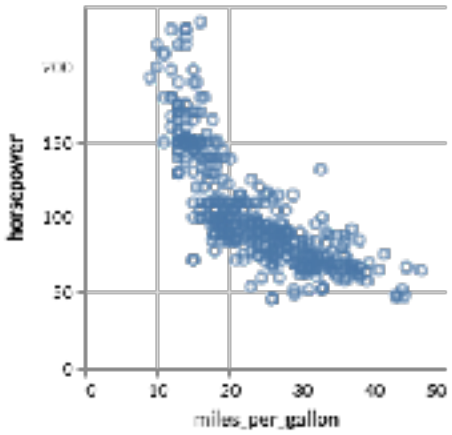
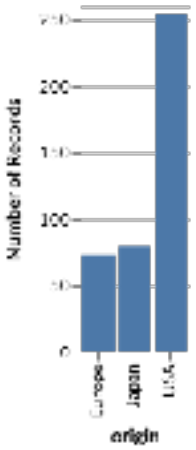
The examples below share the following data definition. We will omit this from the listed queries for compactness.

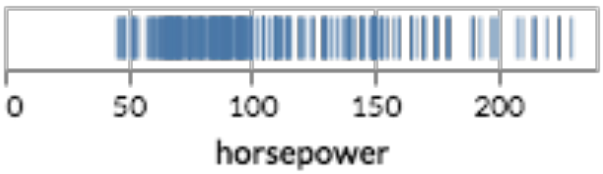
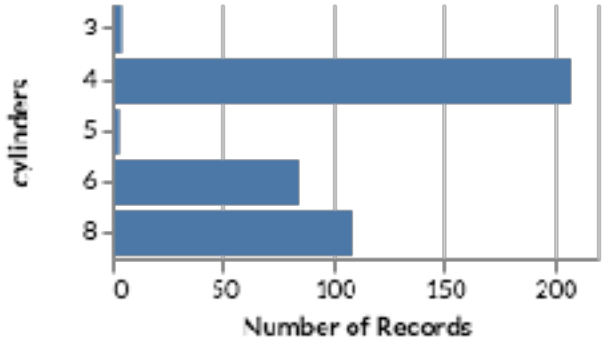
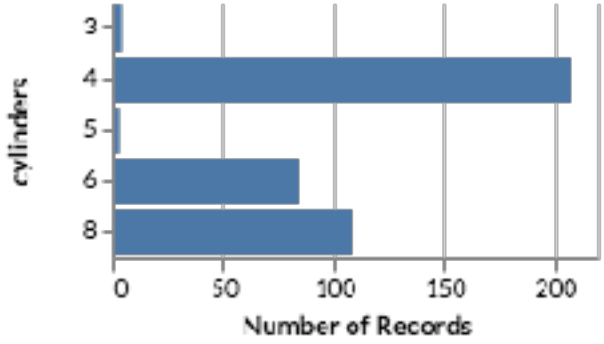
```
% ====== Data definitions ======
num_rows(406).

fieldtype(name,string).
cardinality(name,311).
entropy(name,56).

fieldtype(miles_per_gallon,number).
cardinality(miles_per_gallon,129).
entropy(miles_per_gallon,39).
extent(miles_per_gallon,9,46).

fieldtype(cylinders,number).
cardinality(cylinders,5).
entropy(cylinders,11).
extent(cylinders,3,8).

fieldtype(displacement,number).
cardinality(displacement,83).
entropy(displacement,34).
extent(displacement,68,455).

fieldtype(horsepower,number).
cardinality(horsepower,93).
entropy(horsepower,38).
extent(horsepower,46,230).

fieldtype(weight_in_lbs,number).
cardinality(weight_in_lbs,356).
entropy(weight_in_lbs,43).
extent(weight_in_lbs,1613,5140).

fieldtype(acceleration,number).
cardinality(acceleration,96).
entropy(acceleration,38).
extent(acceleration,8,24).

fieldtype(year,datetime).
cardinality(year,12).

fieldtype(origin,string).
cardinality(origin,3).
entropy(origin,9).
```

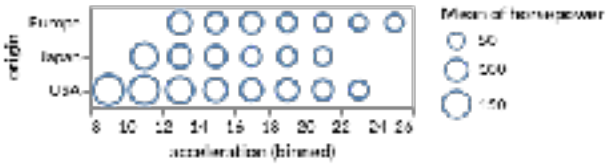
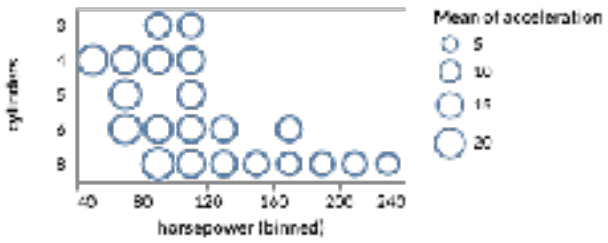
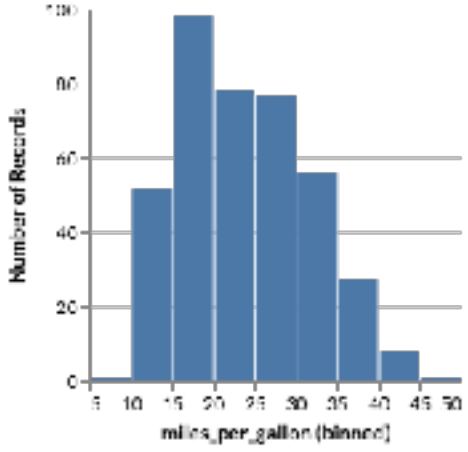
Draco ASP Query	Vega-Lite Chart
encoding(e0). field(e0,horsepower). aggregate(e0,mean). encoding(e1). field(e1,cylinders).	
encoding(e0). field(e0,miles_per_gallon). type(e0,quantitative).	
encoding(e0). channel(e0,x). field(e0,horsepower). type(e0,quantitative).	
encoding(e0). field(e0,cylinders). type(e0,ordinal). encoding(e1). field(e1,horsepower). type(e1,quantitative).	

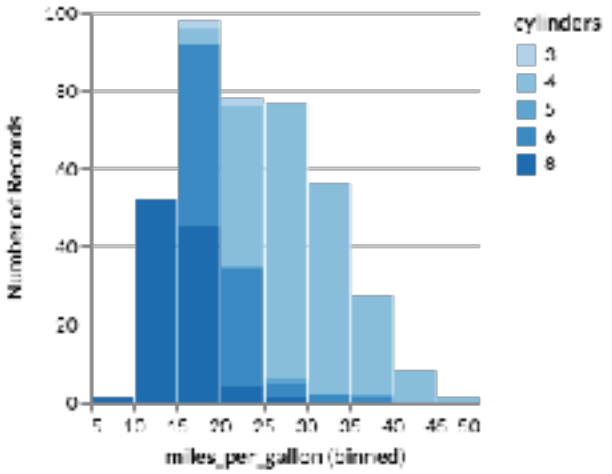
Draco ASP Query	Vega-Lite Chart
encoding(e0). field(e0,cylinders). type(e0,ordinal). encoding(e1). field(e1,horsepower). type(e1,quantitative). encoding(e2). field(e2,origin). type(e2,nominal). channel(e2,color).	
mark(tick). encoding(e0). channel(e0,x). field(e0,miles_per_gallon). type(e0,quantitative). :- log(e0).	
encoding(e0). field(e0,horsepower). encoding(e1). field(e1,acceleration).	

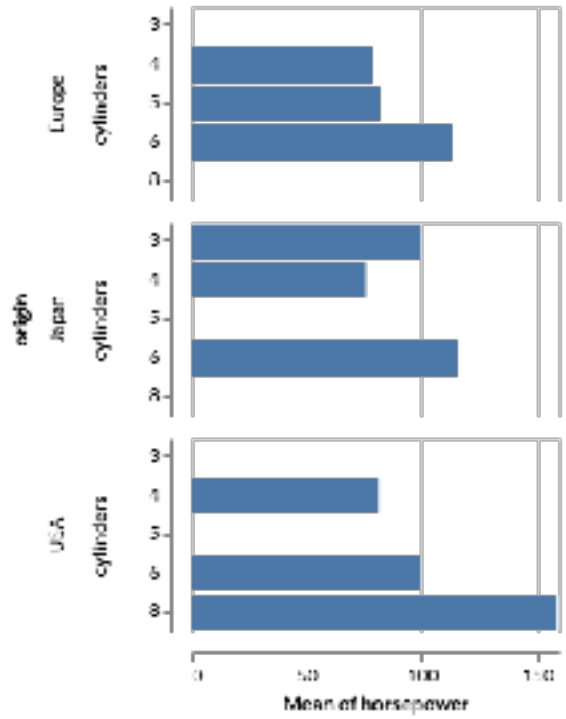
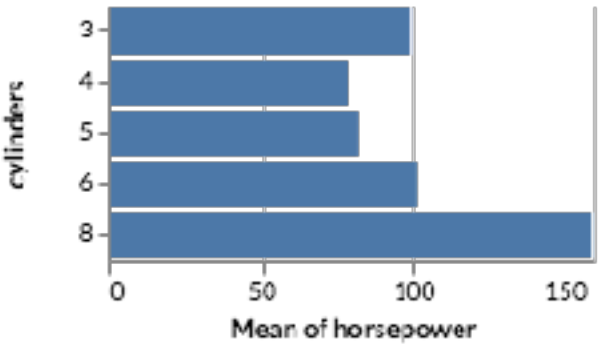
Draco ASP Query	Vega-Lite Chart
encoding(e0). field(e0,horsepower). encoding(e1). field(e1,acceleration). encoding(e2). field(e2,origin). channel(e2,color). type(e2,nominal).	
encoding(e0). field(e0,acceleration). encoding(e1). field(e1,horsepower).	
encoding(e0). field(e0,origin). type(e0,nominal).	

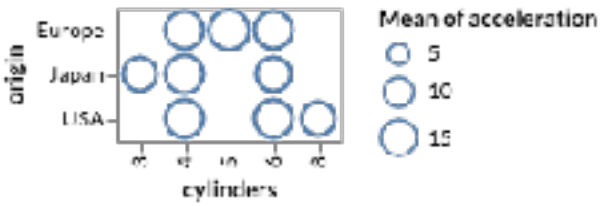
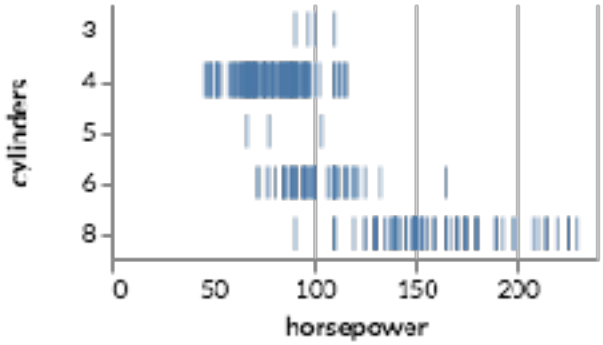
Draco ASP Query	Vega-Lite Chart
encoding(e0). channel(e0,x). field(e0,horsepower). type(e0,quantitative). aggregate(e0,mean). encoding(e1). channel(e1,y). field(e1,cylinders). type(e1,ordinal).	
encoding(e0). field(e0,miles_per_gallon). type(e0,quantitative). encoding(e1). field(e1,horsepower). type(e1,quantitative).	
encoding(e0). channel(e0,x). field(e0,origin). type(e0,nominal).	

Draco ASP Query	Vega-Lite Chart
encoding(e0). field(e0,horsepower).	
encoding(e0). field(e0,cylinders). type(e0,ordinal).	
encoding(e0). encoding(e1). type(e1,quantitative). aggregate(e1,count).	

Draco ASP Query	Vega-Lite Chart
encoding(e0). field(e0,origin). type(e0,nominal). encoding(e1). field(e1,horsepower). type(e1,quantitative). encoding(e2). field(e2,acceleration). type(e2,quantitative).	
encoding(e0). field(e0,cylinders). type(e0,ordinal). encoding(e1). field(e1,horsepower). type(e1,quantitative). encoding(e2). field(e2,acceleration). type(e2,quantitative).	
mark(bar). encoding(e0). channel(e0,x). field(e0,miles_per_gallon). type(e0,quantitative). :- not bin(e0,_).	

Draco ASP Query	Vega-Lite Chart
mark(bar). encoding(e0). channel(e0,x). field(e0,miles_per_gallon). type(e0,quantitative). :- not bin(e0,_). encoding(e1). channel(e1,color). field(e1,cylinders).	
encoding(e0). field(e0,origin). type(e0,nominal). encoding(e1). field(e1,horsepower). type(e1,quantitative).	

Draco ASP Query	Vega-Lite Chart
encoding(e0). channel(e0,x). field(e0,horsepower). type(e0,quantitative). aggregate(e0,mean). encoding(e1). channel(e1,y). field(e1,cylinders). type(e1,ordinal). encoding(e2). field(e2,origin). type(e2,nominal).	
encoding(e0). channel(e0,x). field(e0,horsepower). type(e0,quantitative). aggregate(e0,mean). encoding(e1). channel(e1,y). field(e1,cylinders). type(e1,ordinal).	

Draco ASP Query	Vega-Lite Chart
encoding(e0). field(e0,cylinders). type(e0,ordinal). encoding(e1). field(e1,origin). type(e1,nominal). encoding(e2). field(e2,acceleration). type(e2,quantitative).	
encoding(e0). field(e0,cylinders). type(e0,ordinal). encoding(e1). field(e1,horsepower). type(e1,quantitative).	
encoding(e0). field(e0,cylinders). type(e0,ordinal). encoding(e1). field(e1,horsepower). type(e1,quantitative). encoding(e2). field(e2,origin). channel(e2,color). type(e2,nominal).