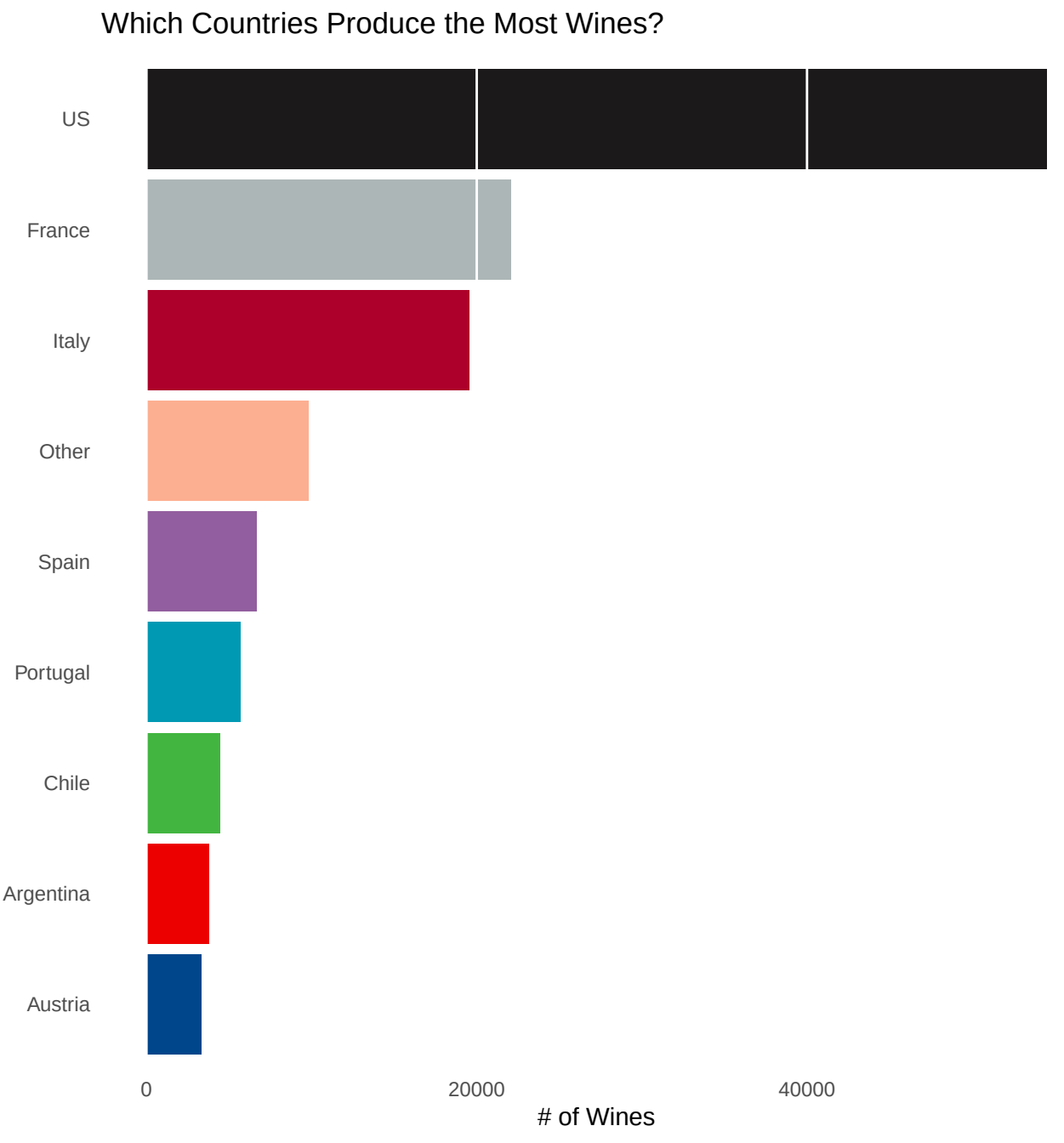
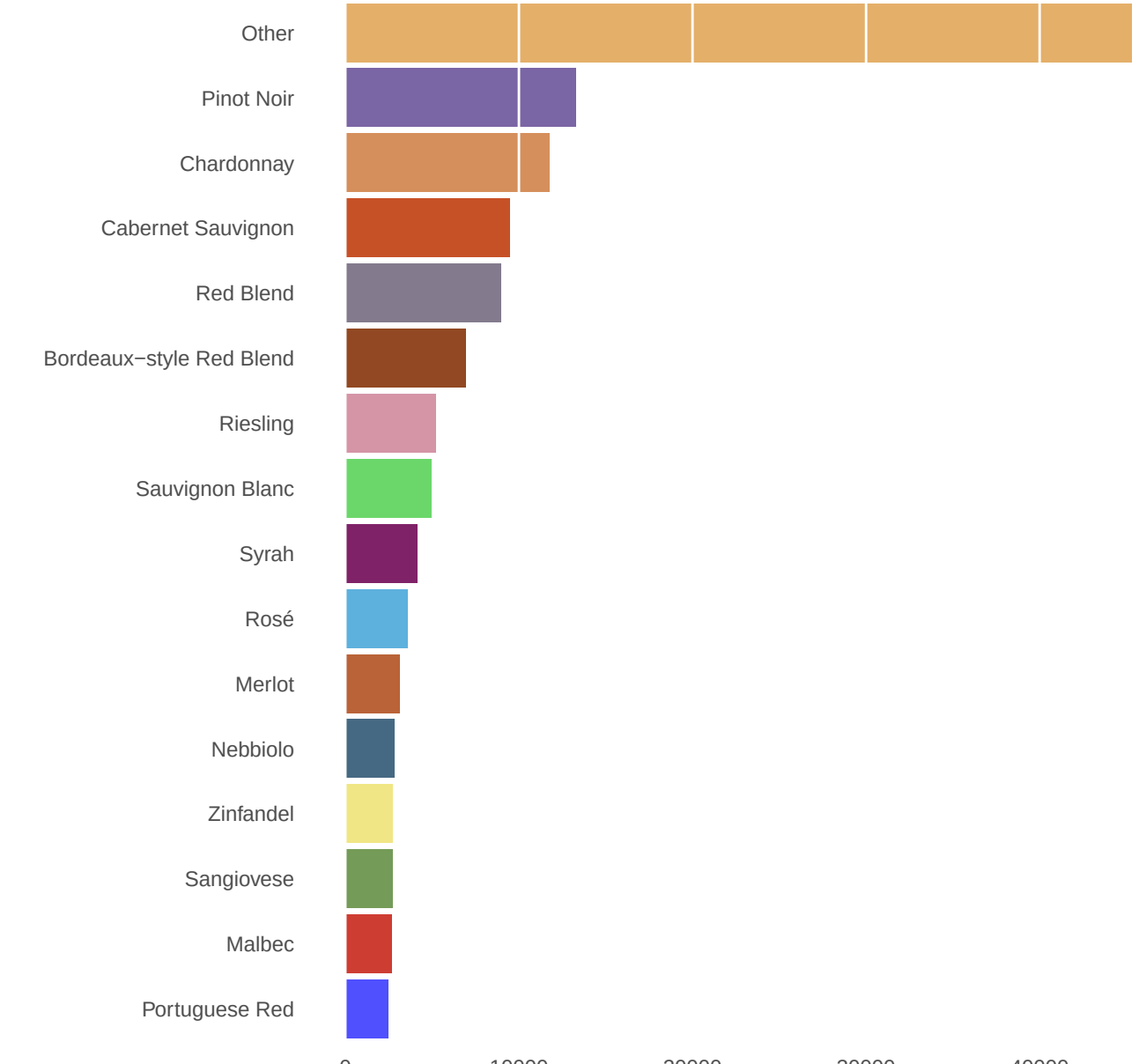
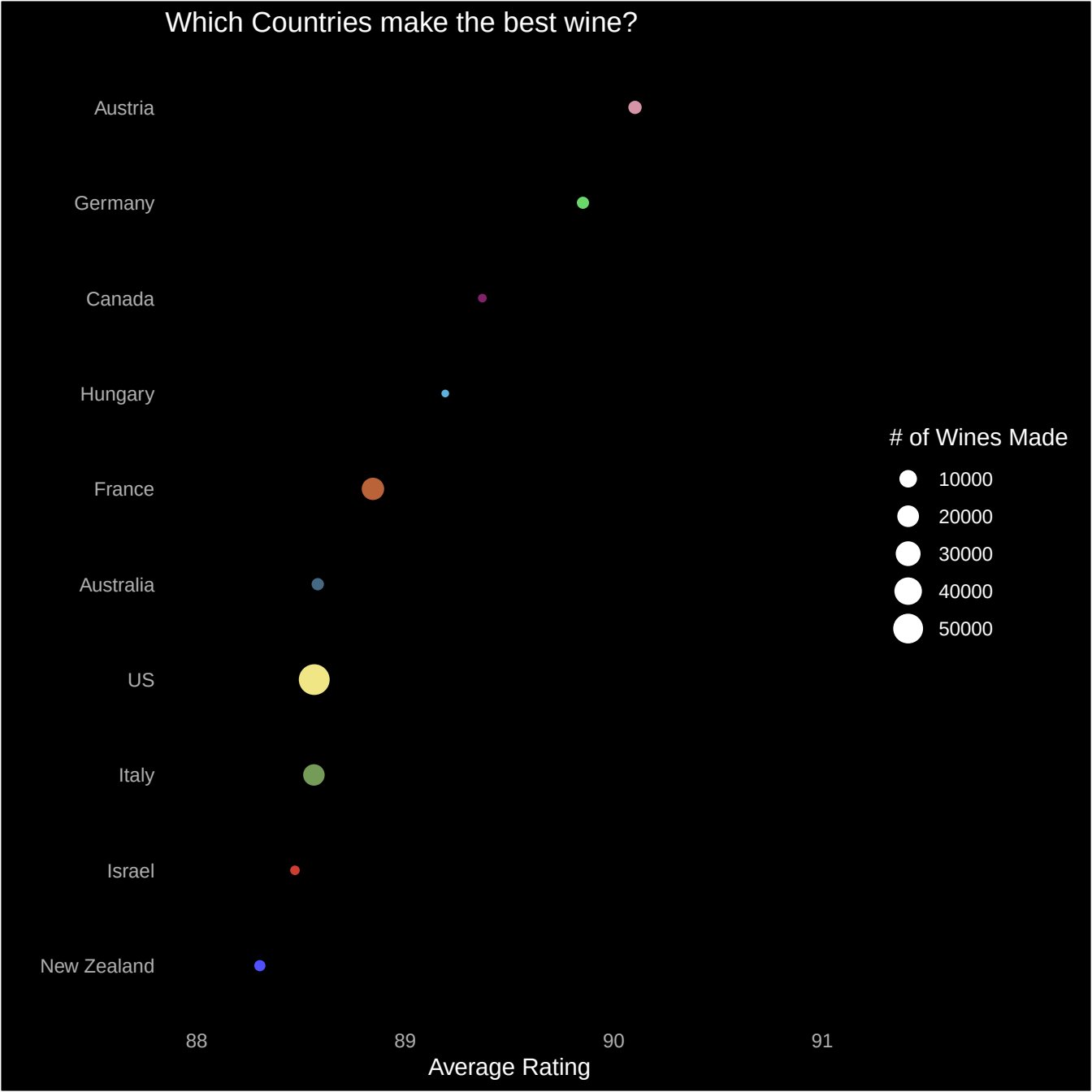
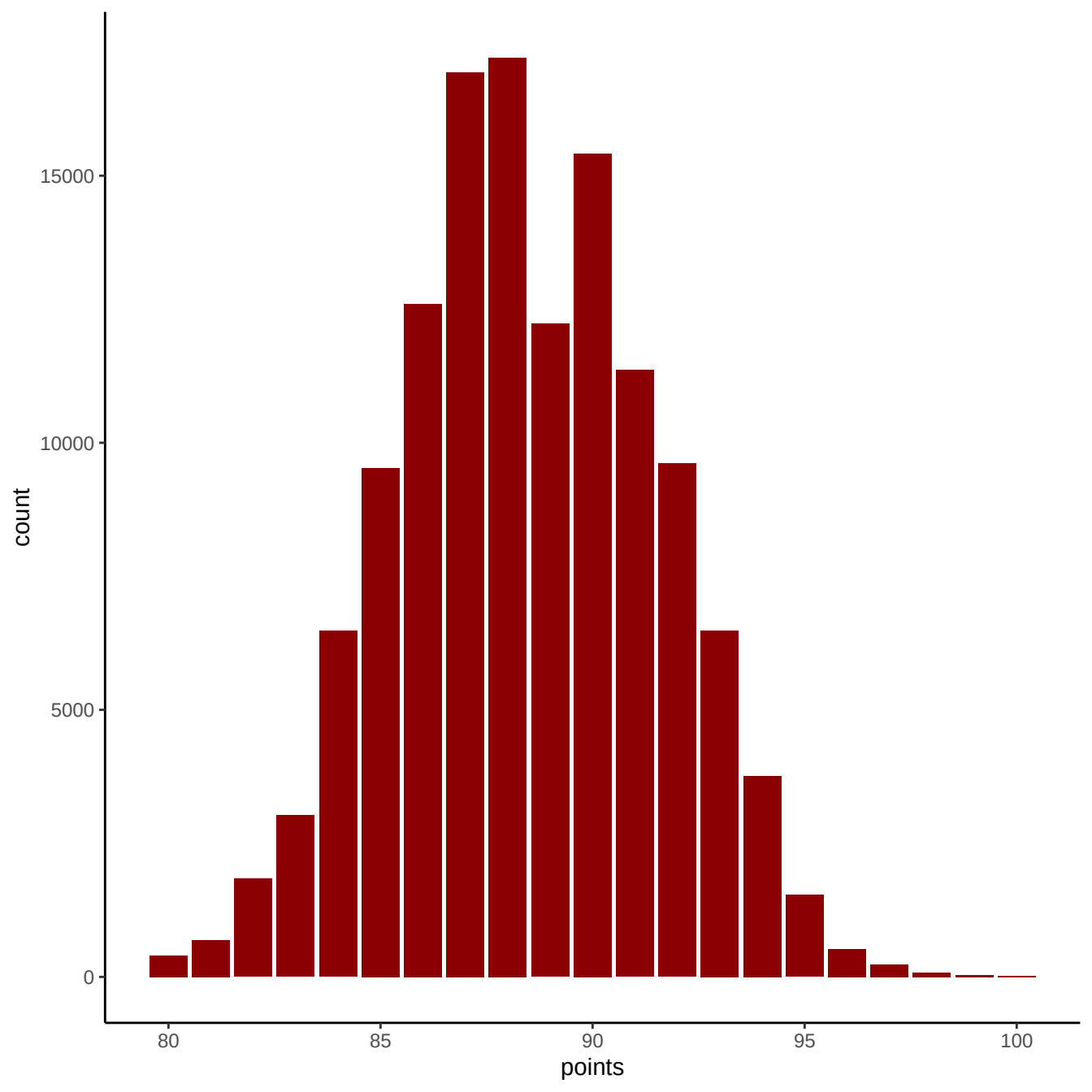
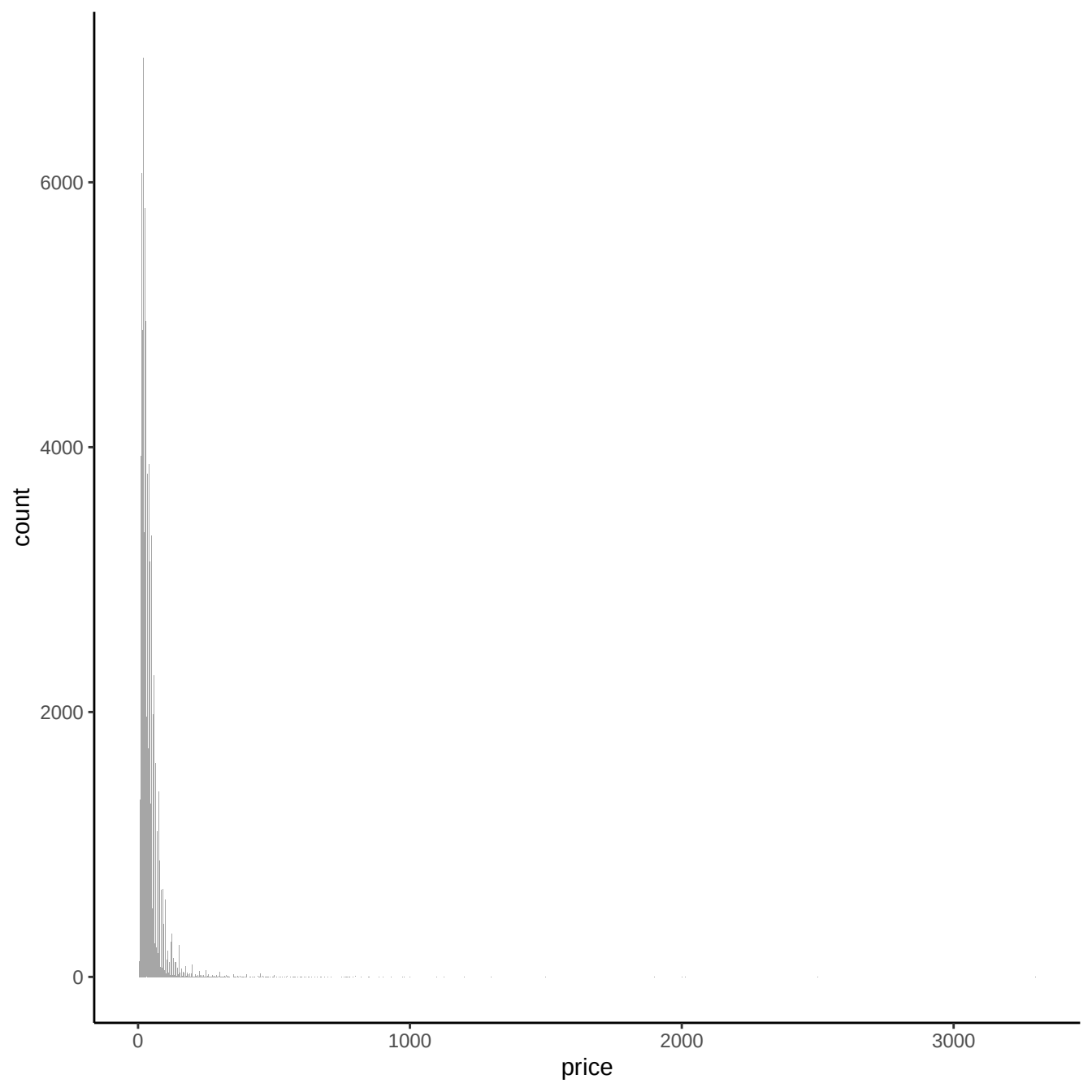

Which Countries Produce the Most Wines?
US
France
Italy
Other
Spain
Portugal
Chile
Argentina
Austria
0
20000
40000
# of Wines

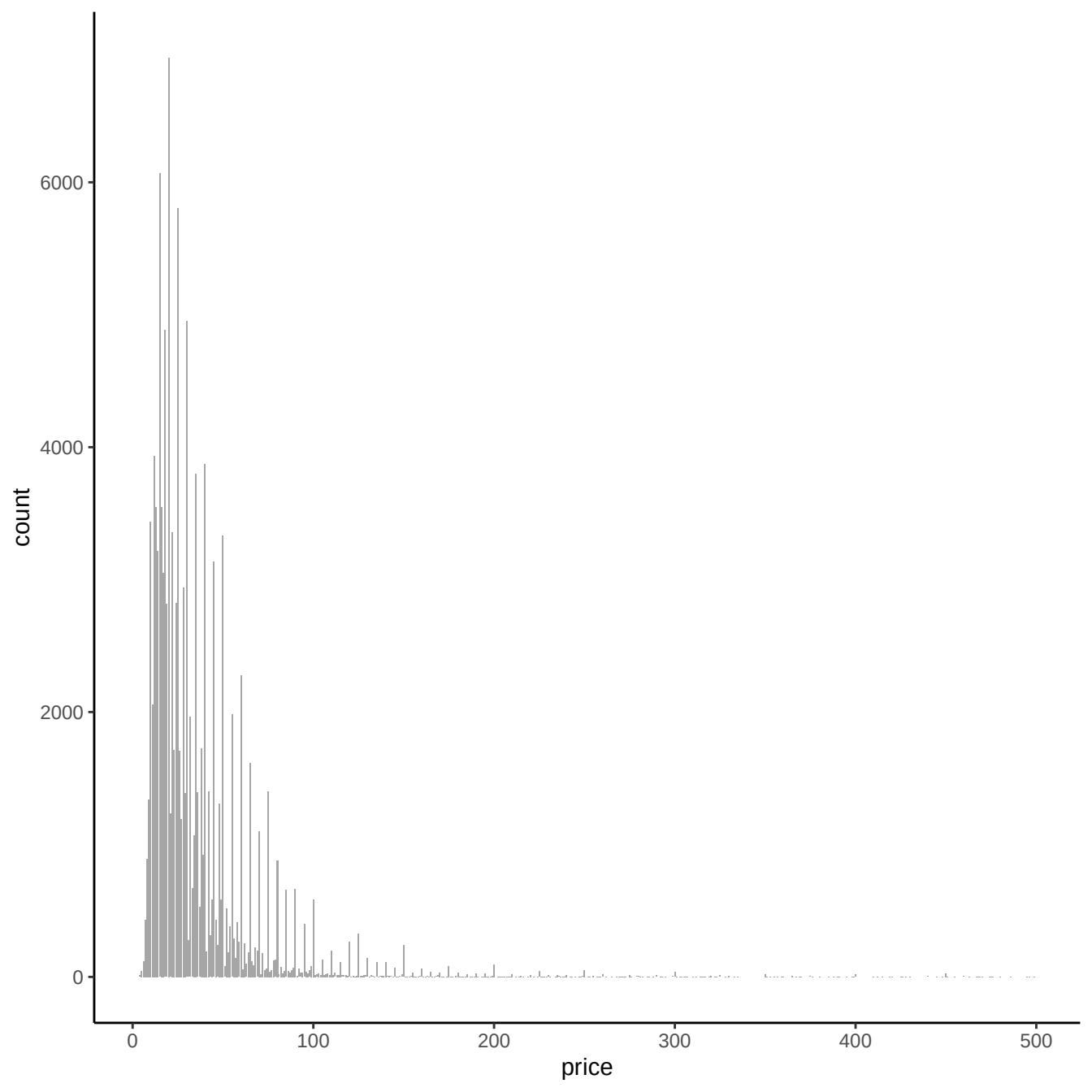
What are the Most Popular Grape Types?

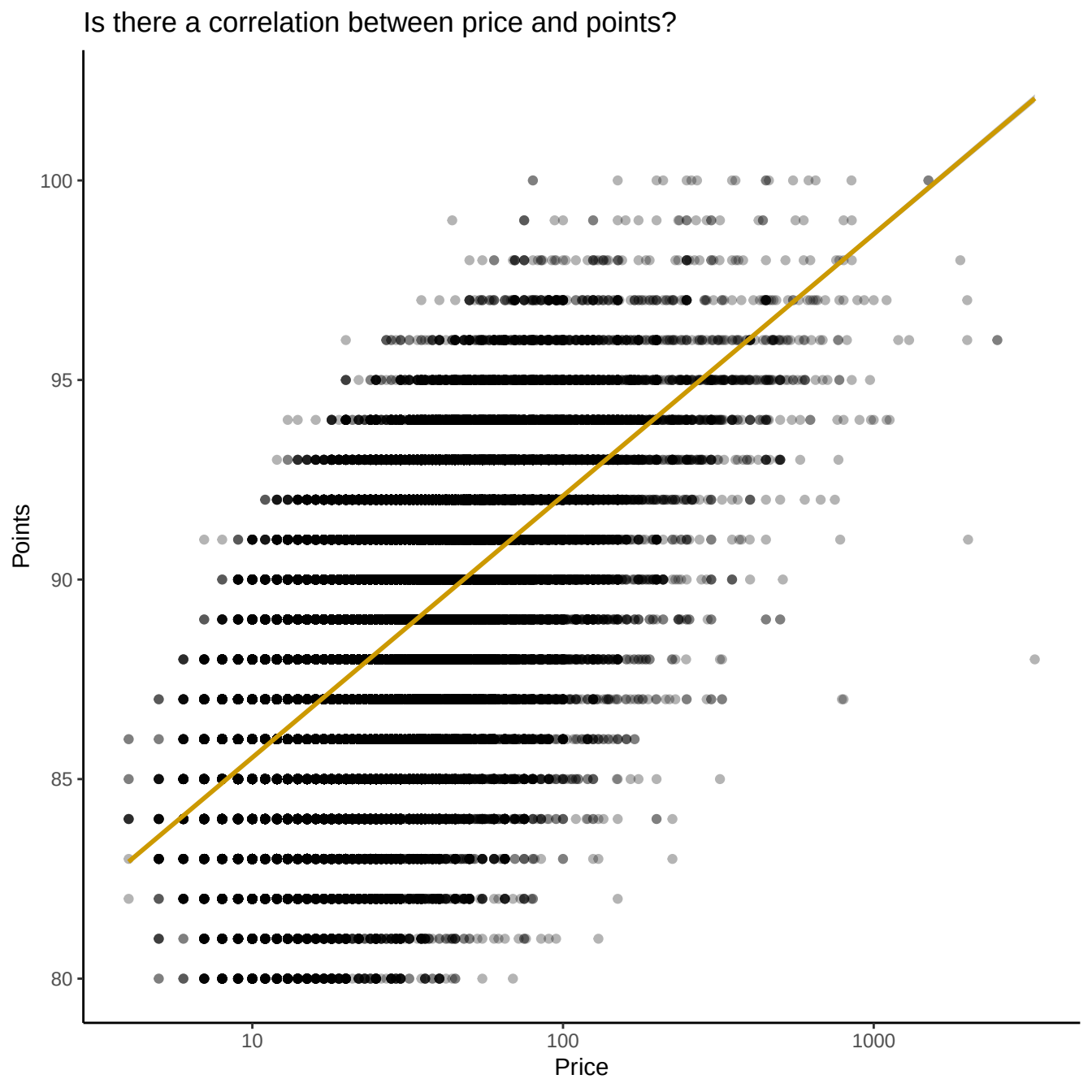


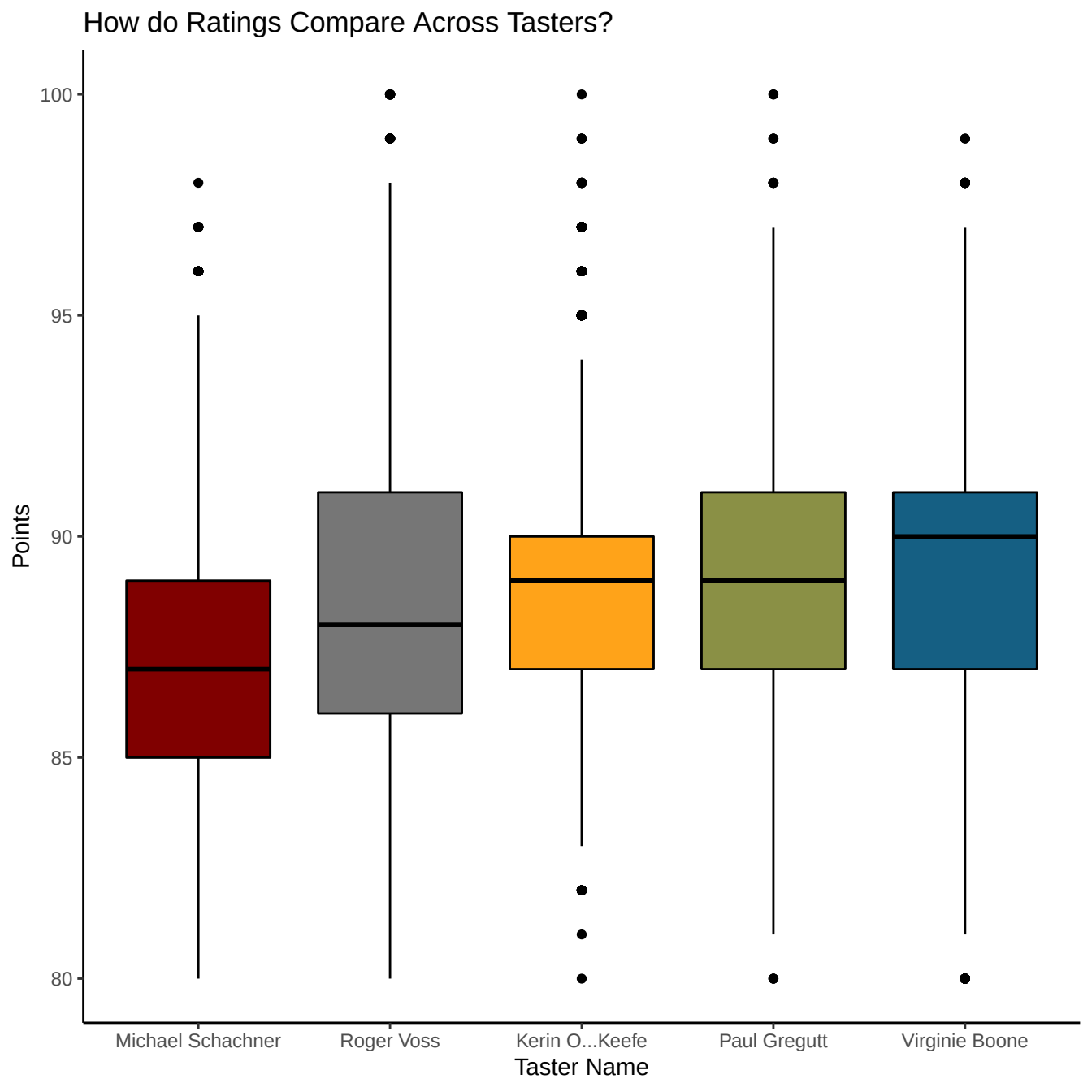

Which Countries make the best wine?
Austria
Germany
Canada
Hungary
France
Australia
US
Italy
Israel
New Zealand
88
89
90
91
Average Rating
# of Wines Made
10000
20000
30000
40000
50000

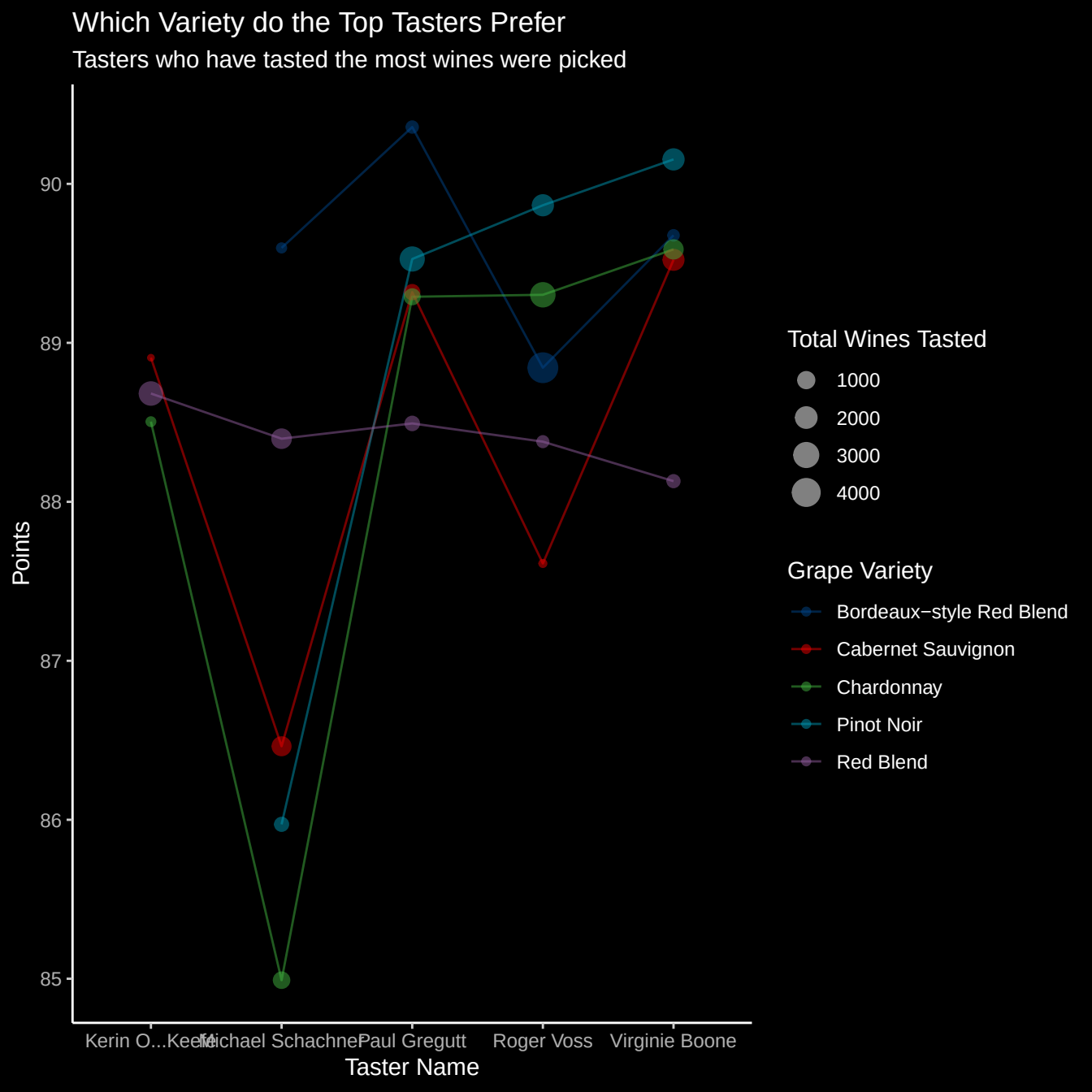

15000
10000
5000
0
count
80
85
90
95
100
points

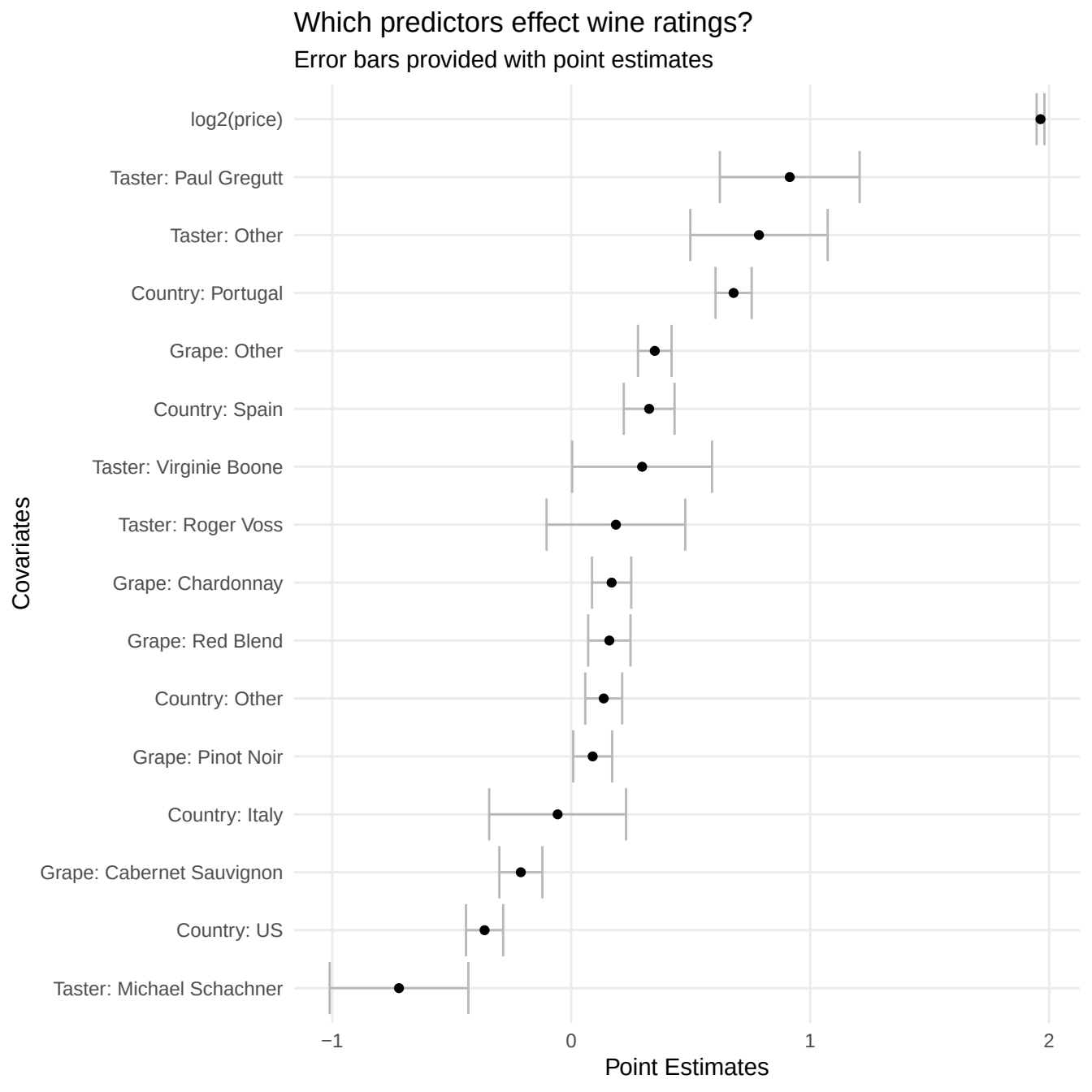

6000
4000
2000
0
count
0
1000
2000
3000
price

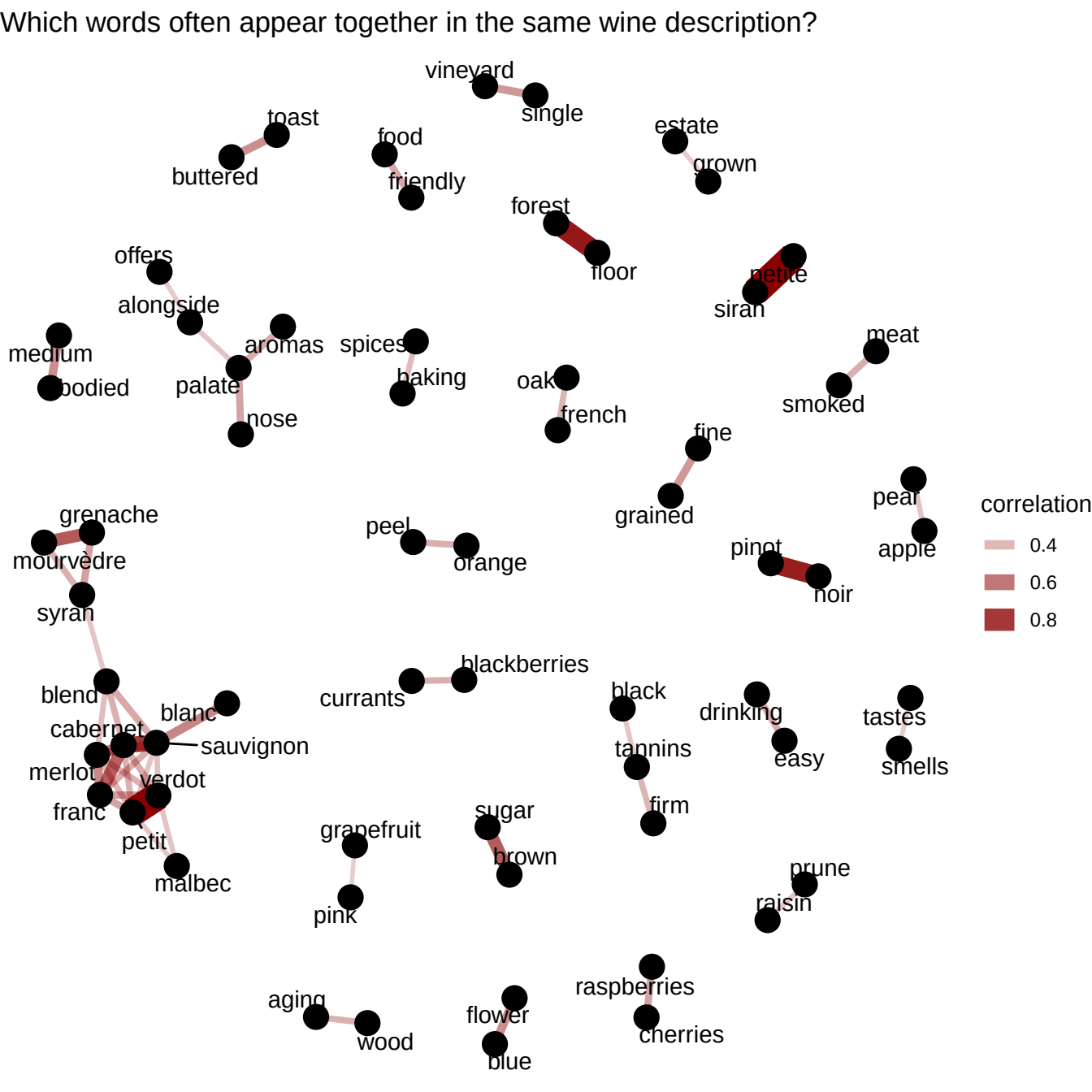

6000
4000
2000
0
count
0
100
200
300
400
500
price

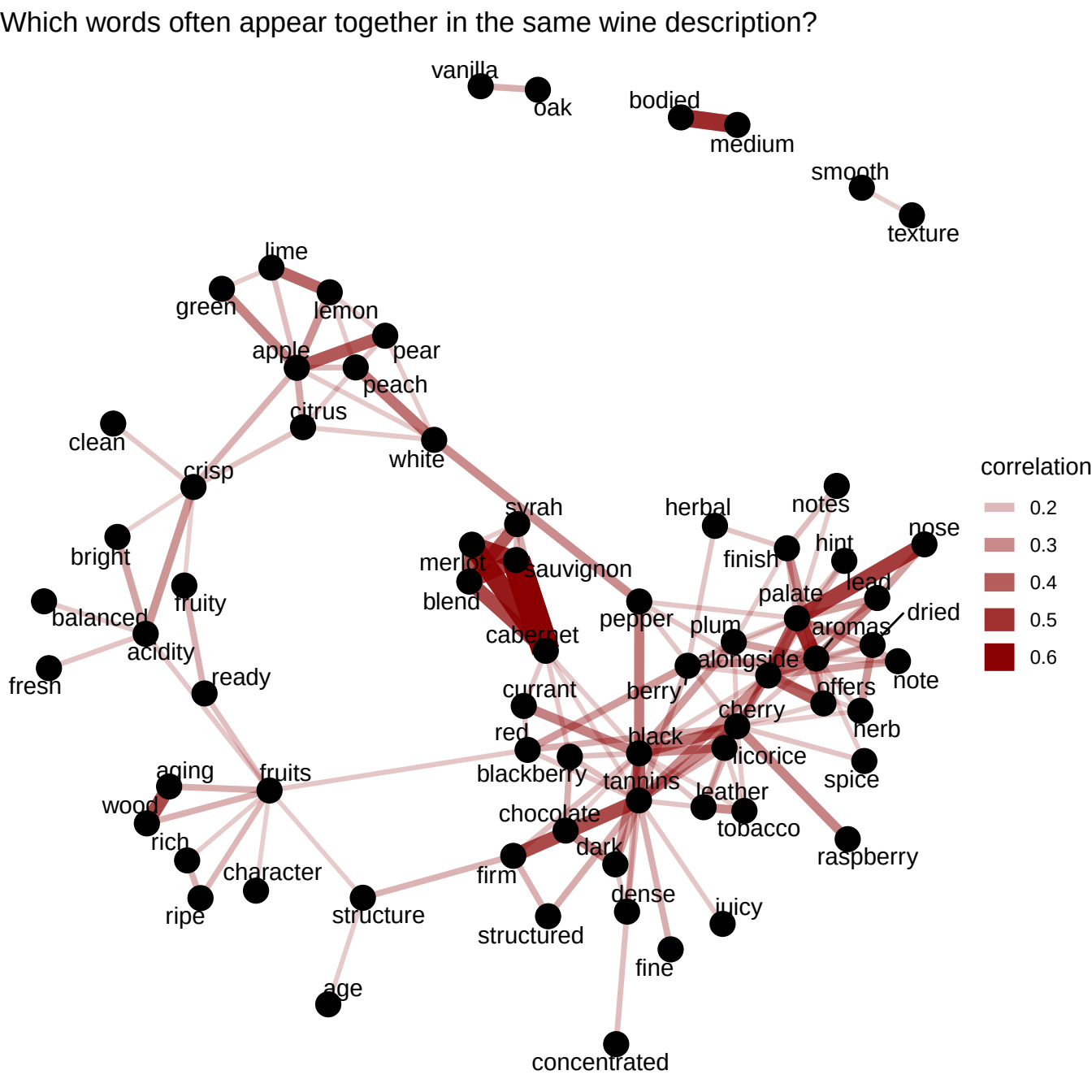

Is there a correlation between price and points?
Points
100
95
90
85
80
10
100
1000
Price

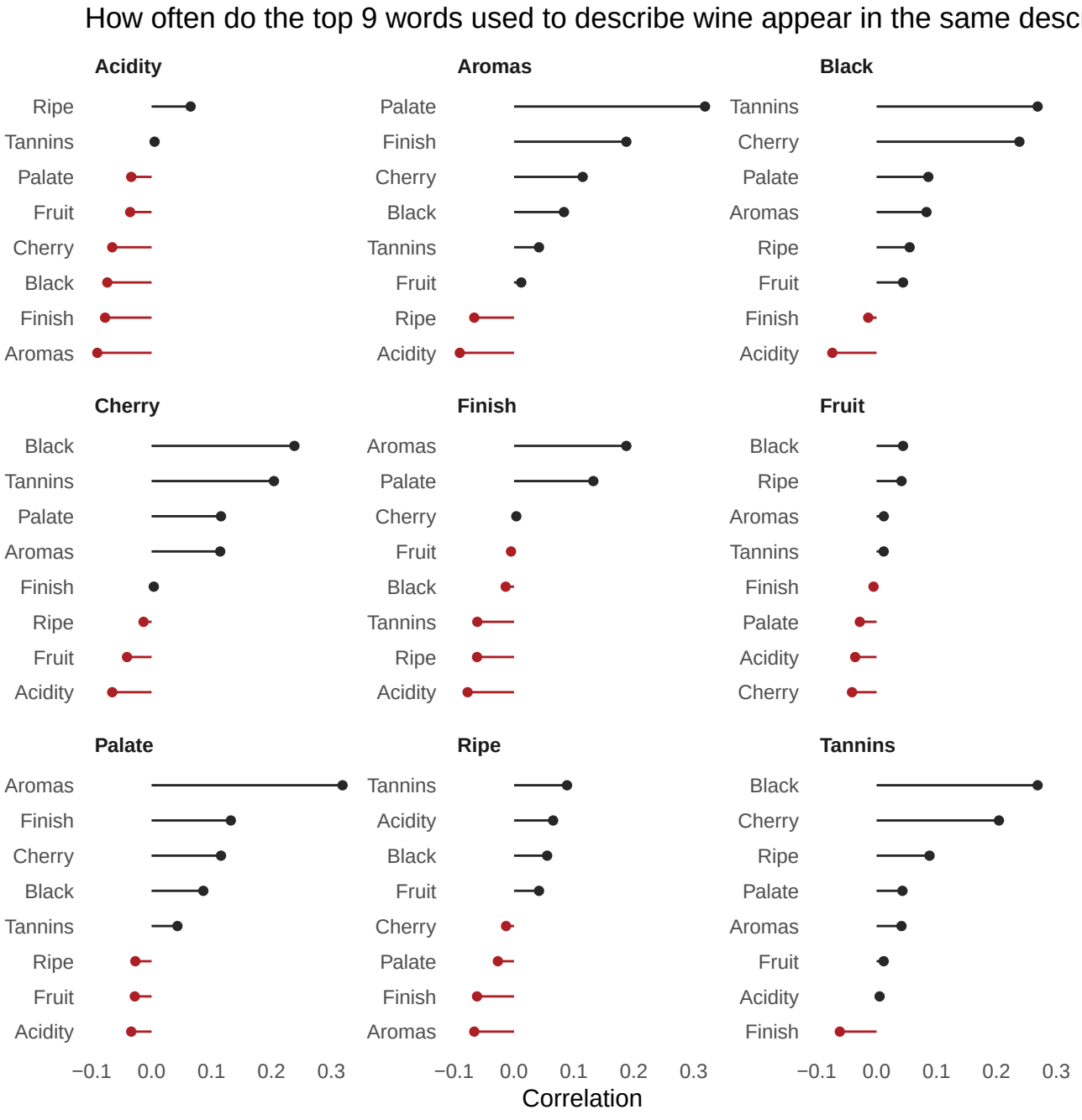

How do Ratings Compare Across Tasters?
Points
100
95
90
85
80
Michael Schachner
Roger Voss
Kerin O...Keefe
Paul Gregutt
Virginie Boone
Taster Name

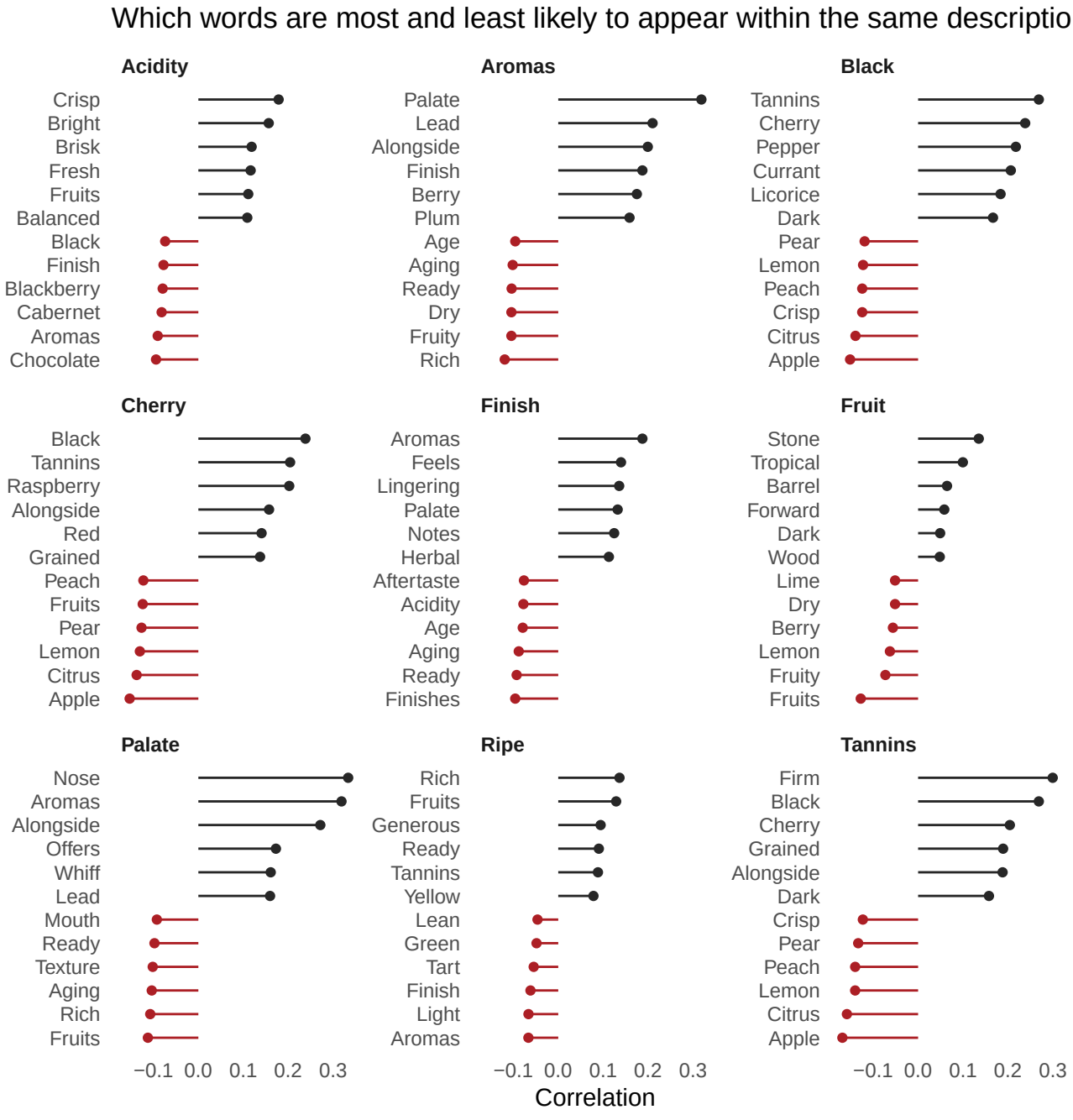

Which Variety do the Top Tasters Prefer
Tasters who have tasted the most wines were picked
Points
90
89
88
87
86
85
Kerin O...Keefe
Michael Schachner
Paul Gregutt
Roger Voss
Virginie Boone
Taster Name
Total Wines Tasted
1000
2000
3000
4000
Grape Variety
Bordeaux−style Red Blend
Cabernet Sauvignon
Chardonnay
Pinot Noir
Red Blend

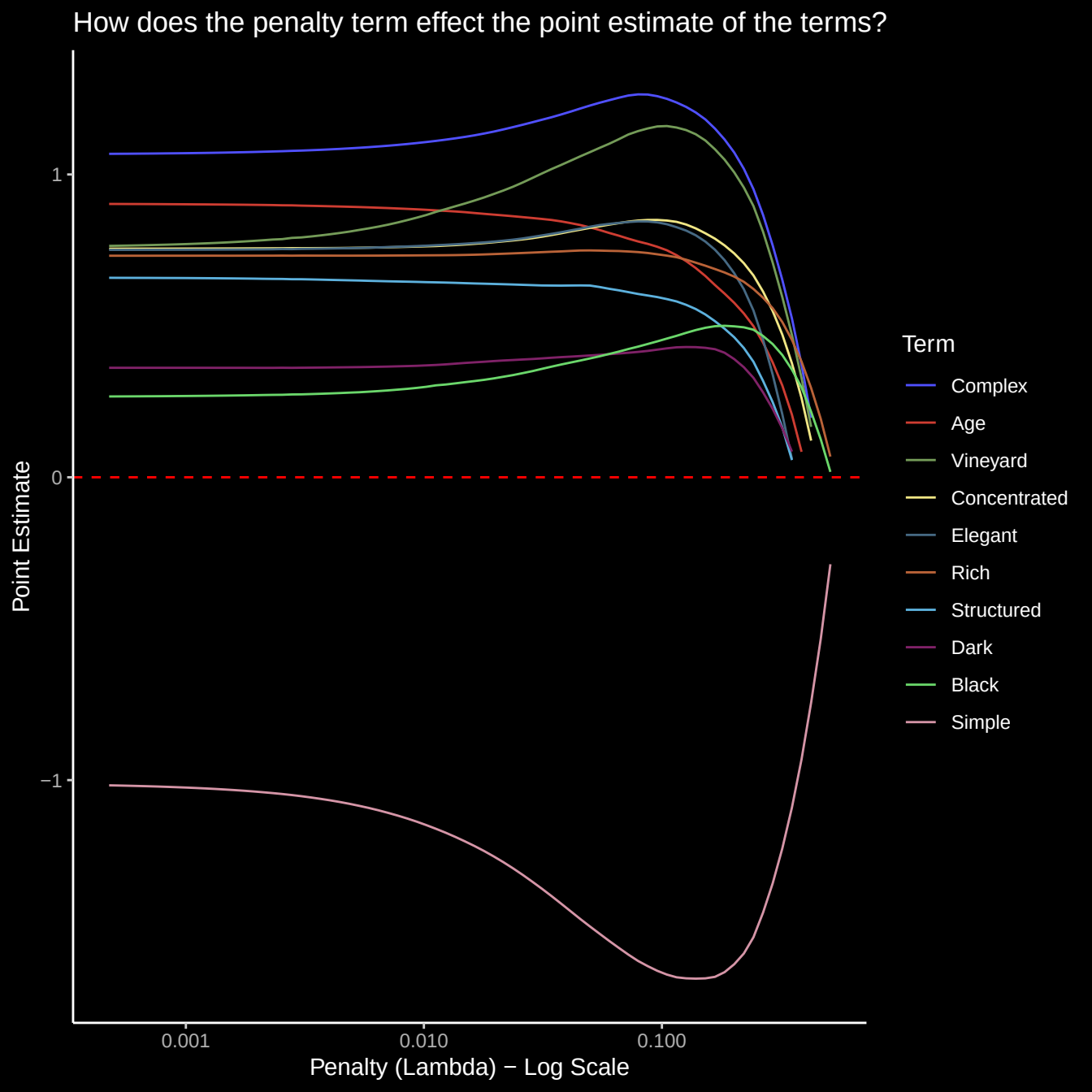

Which predictors effect wine ratings?
Error bars provided with point estimates
log2(price)
Taster: Paul Gregutt
Taster: Other
Country: Portugal
Grape: Other
Country: Spain
Taster: Virginie Boone
Taster: Roger Voss
Grape: Chardonnay
Grape: Red Blend
Country: Other
Grape: Pinot Noir
Country: Italy
Grape: Cabernet Sauvignon
Country: US
Taster: Michael Schachner
Covariates
−1
0
1
2
Point Estimates

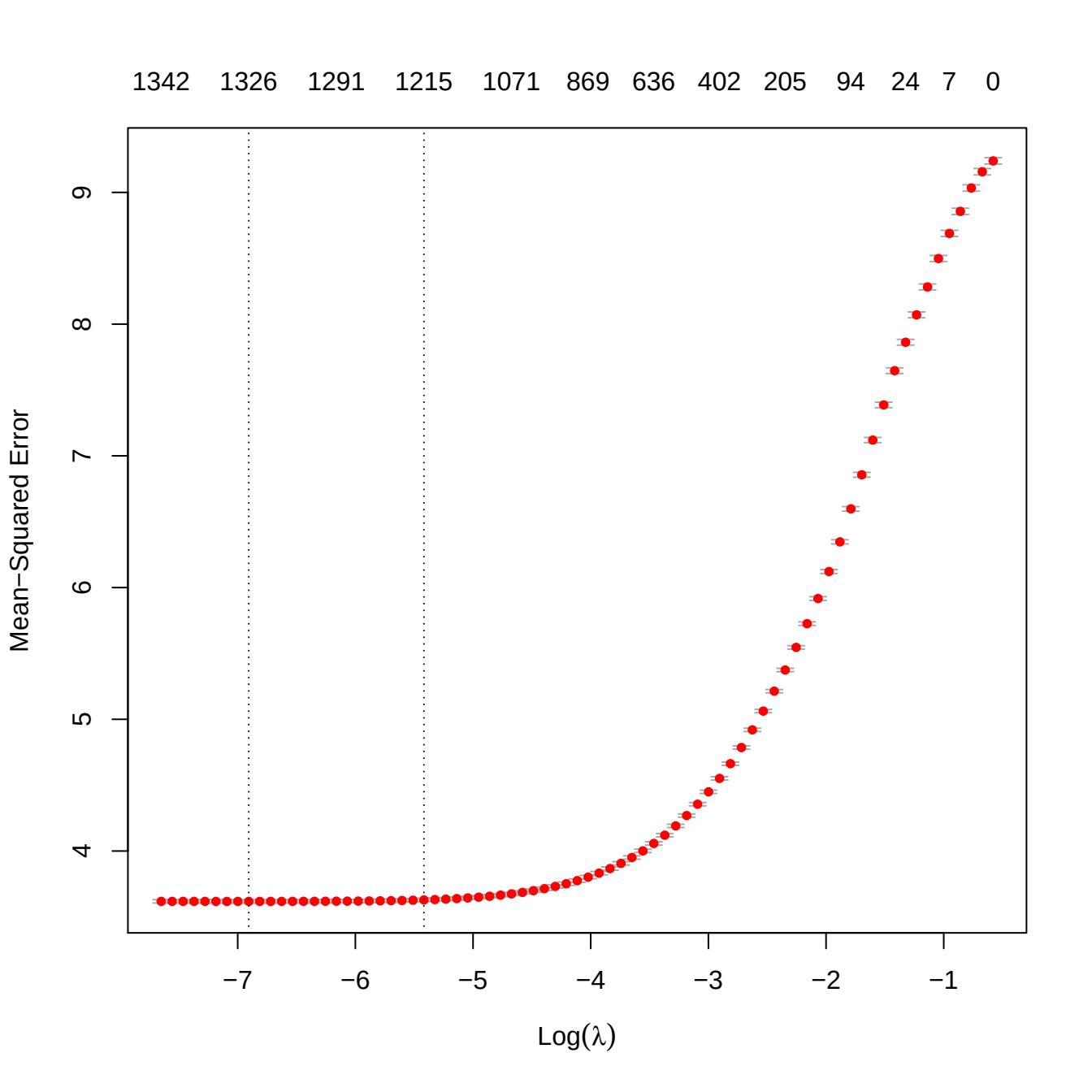

Which words often appear together in the same wine description?
vineyard
single
toast
buttered
food
friendly
estate
grown
forest
floor
offers
alongside
aromas
palate
nose
spices
baking
oak
french
petite
siran
meat
smoked
medium
bodied
fine
grained
pear
apple
grenache
mourvèdre
syrah
peel
orange
pinot
noir
blend
blanc
cabernet
sauvignon
merlot
verdot
franc
petit
malbec
currants
blackberries
black
tannins
firm
drinking
easy
tastes
smells
grapefruit
pink
sugar
brown
prune
raisin
aging
wood
flower
blue
raspberries
cherries
correlation
0.4
0.6
0.8


Which words often appear together in the same wine description?
vanilla
oak
bodied
medium
smooth
texture
lime
green
lemon
apple
pear
peach
citrus
clean
crisp
white
bright
fruity
balanced
acidity
fresh
ready
syrah
merlot
sauvignon
blend
cabernet
pepper
herbal
notes
nose
finish
hint
palate
lead
plum
aromas
dried
alongside
note
offers
currant
berry
cherry
herb
red
black
licorice
blackberry
tannins
spice
leather
chocolate
tobacco
dark
raspberry
firm
dense
juicy
structured
fine
concentrated
aging
fruits
wood
rich
character
ripe
structure
age
correlation
0.2
0.3
0.4
0.5
0.6


How often do the top 9 words used to describe wine appear in the same descr
Acidity
Ripe
Tannins
Palate
Fruit
Cherry
Black
Finish
Aromas
Aromas
Palate
Finish
Cherry
Black
Tannins
Fruit
Ripe
Acidity
Black
Tannins
Cherry
Palate
Aromas
Ripe
Fruit
Finish
Acidity
Cherry
Black
Tannins
Palate
Aromas
Finish
Ripe
Fruit
Acidity
Finish
Aromas
Palate
Cherry
Fruit
Black
Tannins
Ripe
Acidity
Fruit
Black
Ripe
Aromas
Tannins
Finish
Palate
Acidity
Cherry
Palate
Aromas
Finish
Cherry
Black
Tannins
Ripe
Fruit
Acidity
Ripe
Tannins
Acidity
Black
Fruit
Cherry
Palate
Finish
Aromas
Tannins
Black
Cherry
Ripe
Palate
Aromas
Fruit
Acidity
Finish
−0.1
0.0
0.1
0.2
0.3
Correlation

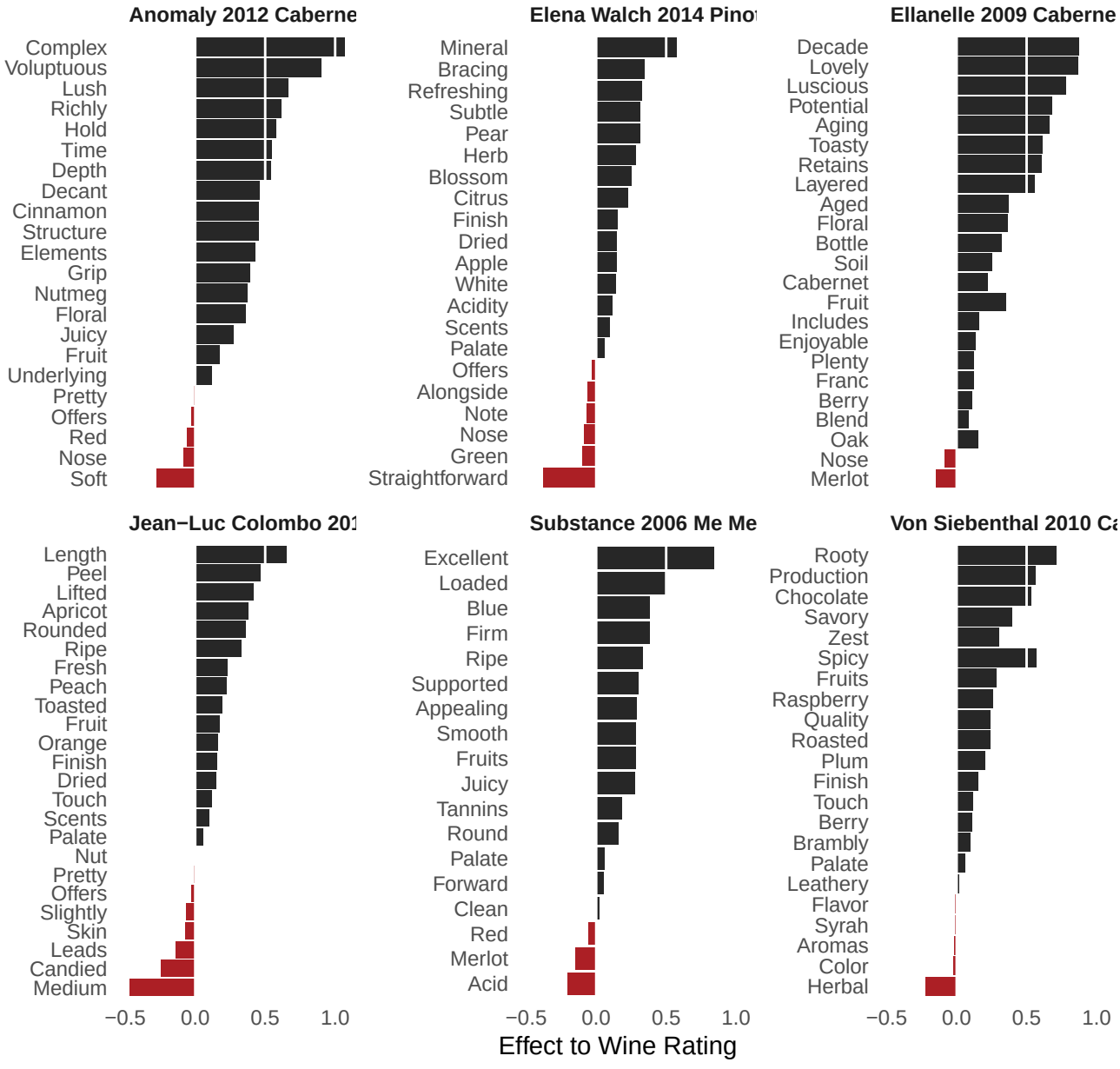

Which words are most and least likely to appear within the same description
Acidity
Crisp
Bright
Brisk
Fresh
Fruits
Balanced
Black
Finish
Blackberry
Cabernet
Aromas
Chocolate
Aromas
Palate
Lead
Alongside
Finish
Berry
Plum
Age
Aging
Ready
Dry
Fruity
Rich
Black
Tannins
Cherry
Pepper
Currant
Licorice
Dark
Pear
Lemon
Peach
Crisp
Citrus
Apple
Cherry
Black
Tannins
Raspberry
Alongside
Red
Grained
Peach
Fruits
Pear
Lemon
Citrus
Apple
Finish
Aromas
Feels
Lingering
Palate
Notes
Herbal
Aftertaste
Acidity
Age
Aging
Ready
Finishes
Fruit
Stone
Tropical
Barrel
Forward
Dark
Wood
Lime
Dry
Berry
Lemon
Fruity
Fruits
Palate
Nose
Aromas
Alongside
Offers
Whiff
Lead
Mouth
Ready
Texture
Aging
Rich
Fruits
Ripe
Rich
Fruits
Generous
Ready
Tannins
Yellow
Lean
Green
Tart
Finish
Light
Aromas
Tannins
Firm
Black
Cherry
Grained
Alongside
Dark
Crisp
Pear
Peach
Lemon
Citrus
Apple
−0.1 0.0 0.1 0.2 0.3
−0.1 0.0 0.1 0.2 0.3
−0.1 0.0 0.1 0.2 0.3
Correlation

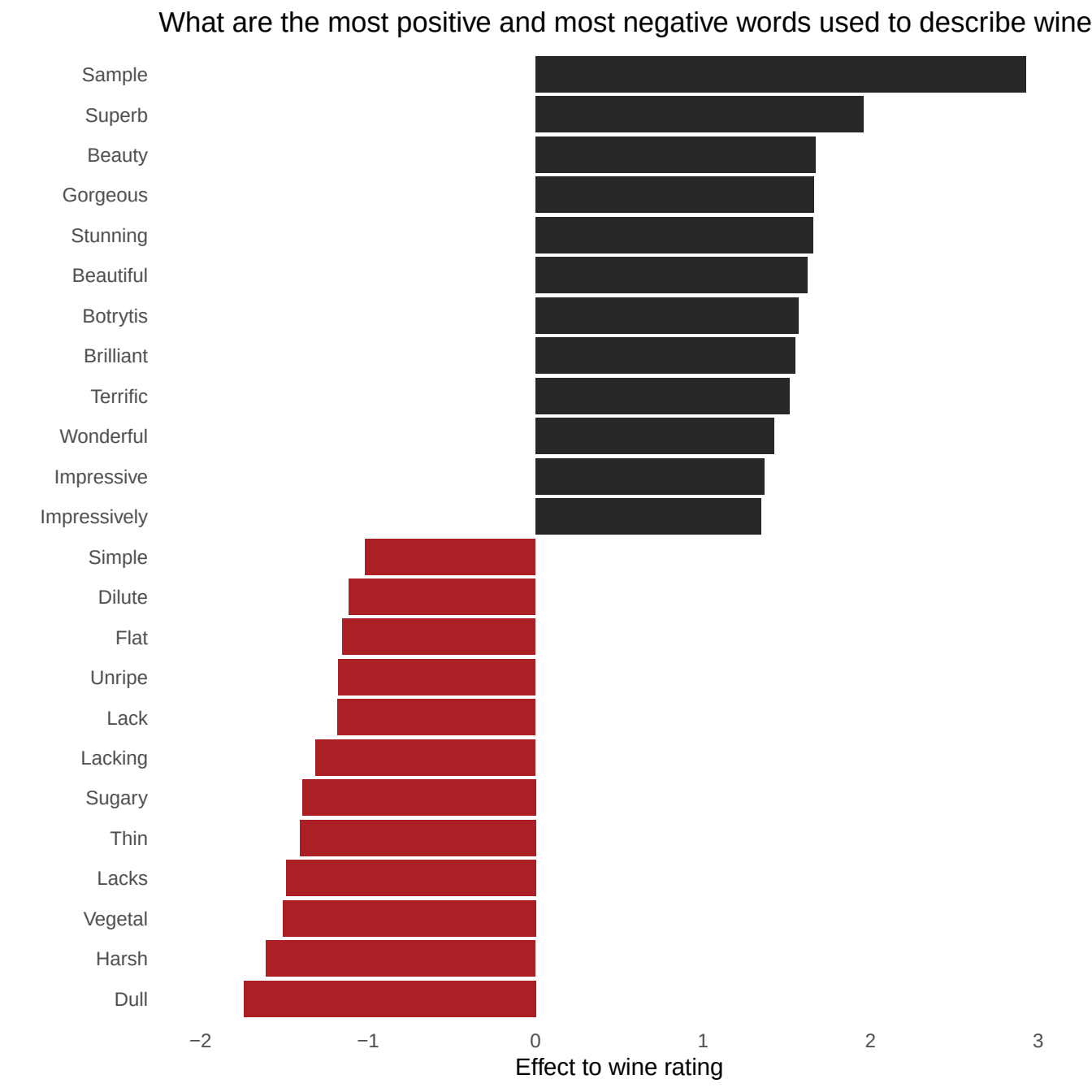

How does the penalty term effect the point estimate of the terms?
1
0
−1
Point Estimate
0.001
0.010
0.100
Penalty (Lambda) − Log Scale
Term
Complex
Age
Vineyard
Concentrated
Elegant
Rich
Structured
Dark
Black
Simple


1342 1326 1291 1215 1071 869 636 402 205 94 24 7 0
Mean−Squared Error
4
5
6
7
8
9
−7
−6
−5
−4
−3
−2
−1
Log(λ)

How do the words used to describe the wines by experts effect the wine ratin

Baseline rating is 84.9




What are the most positive and most negative words used to describe wine
Sample
Superb
Beauty
Gorgeous
Stunning
Beautiful
Botrytis
Brilliant
Terrific
Wonderful
Impressive
Impressively
Simple
Dilute
Flat
Unripe
Lack
Lacking
Sugary
Thin
Lacks
Vegetal
Harsh
Dull
−2
−1
0
1
2
3
Effect to wine rating