

Exercise 2: Reflection (14%)

Topic: reflect on the feedback you received

rubric={reasoning:5}

The main issue that both of my reviewers faced was with regard to the stability of my app. While the app was generally well received and easy to use, the latency of the refresh rate on my inputs made it difficult to interact with the plots effectively. If multiple inputs are changed before the app has finished refreshing, this will cause my app to crash. Generally I found that both of my reviewers used my app in its intended way, although it wasn't clear that the plots needed to refresh before a new selection could be made, resulting in frustration and non-working plots.

To mitigate the frustration caused by the app only allowing a single input at a time for each rendering, I will remove the scaling selection tools based off of previous inputs. I had this feature in place to stop the user from going out of bounds within the dataset, however I have found that it is causing more issues than it is fixing.

I think that I will need to figure out a way to have the app refresh more quickly, or find a way to keep the inputs from becoming buggy during the multi-selection process.

Another comment that I found useful was the interpretability of my value chart. The colour scheme of my chart made it difficult for my reviewers to understand exactly what was going on. I think that I will remove all unnecessary information from the plot, just keeping the coloured points on the graph, without any of the regression or residual lines. This will keep the users focus on the individual points' location within in the scatter plot, and highlight the importance of the colour (value) of each point.

Topic: reflect on how your project has changed since your proposal

rubric={reasoning:5}

The core philosophy of my app has not changed since the proposal, however the general layout and functionality has changed. The goal of my app was, and remains to be a selection tool that could help a consumer in a liquor store make the best possible choice given their distinct tastes and budget. In my proposal, I had envisioned having 3 plots and a data table to convey all of what I considered to be 'useful' information to the consumer. These plots included a flavour profile, a value chart, and a world map, all of which were technically possible and reasonable. In my proposal I had shown all of these plots being on

the same page, providing all of the necessary information in one screen. In practice this caused overplotting, and made the screen look too cluttered with information, detracting from the significance of each individual plot. In addition, I found that the world map did not provide enough useful information to the consumer to warrant being included in my app, so I decided to remove it.

To encourage the user to first make the flavour choice, and then move on to select the wine by price, I decided to keep the two plots on separate pages. The value chart and the flavour profile, while technically challenging to produce, I feel give the consumer the most important and concise information required to make a purchase.

For the final revision of my app, I want to employ more interactivity between my value chart and my data table, however I am now more weary of its potential impact on latency issues due to rendering times. For my final submission I will be focusing on usability and stability of the app before adding any additional features.

Topic: final thoughts

rubric={reasoning:4}

If I were to remake the app again, I would make my main focus on usability before content. I am under the impression that even the most interesting site in the world could be a pain to use if not implemented properly. I figure if the app is easy to use and is intuitive, it will encourage people to use it more.

I found that the greatest challenge with this project is getting everything to work correctly and in harmony. Sometimes when I decided to add a new feature, I found that it would cause the things that had previously been working correctly to break or to act differently. This grew increasingly challenging as I added more features, and was working with multiple variables that are sensitive to various inputs.

Exercise 3: Improved Shiny App (71%)

I made the following improvements to my app following the peer review:

1. Improved stability:

Inputs are no longer scalable, however they do not cause plots to go out of bounds causing crashes. Scaling the inputs with each change was found to be causing the latency issues, decreasing usability. The new input interactivity allows for multiple selection/deselection at once, addressing Ivan's and Alex's usability issue.

2. Improved plot graphics

I have added interactivity between the data table and the value chart as per Sam's suggestion in my Milestone 2 Review. Clicking on rows of the data table will highlight items on the chart, adding

interactivity between these two plots.

3. Improved layout

I have increased the size of tabs and added numbers to tabs to encourage interaction between tabs.

I have added a title to the flavour profile to suggest that it is interactive with the selection inputs on the side of the page.

Screenshot 1

Wine Selection Tool

Welcome to the Wine Selection Tool for the [Wine Ratings](#) dataset. Find your favourite flavours and then move onto the value chart to find the best selection for your money.

Price Range (\$):

4

486

4

53

102

200

298

396

486

Rating (points):

80

100

80

82

84

86

88

90

92

94

96

98

100

Variety:

Malbec

Merlot

Moscato

Pinot Noir

Shiraz

Country of Origin:

Argentina

France

Germany

Italy


Spain

US

1. Flavour Profile

2. Value Chart

Prominent flavours of your current selection



Show 10 entries

Search:

	winery	designation	variety	country	province	points	price
1	Tenuta dell'Ornellaia	Masseto	Merlot	Italy	Tuscany	100	460
2	Williams	Litton Estate	Pinot	US	California	100	100

The main page with default settings.

Screenshot 2

Wine Selection Tool

Welcome to the Wine Selection Tool for the [Wine Ratings](#) dataset. Find your favourite flavours and then move onto the value chart to find the best selection for your money.

Price Range (\$):

4

291

486

4

53

102

200

298

396

486

Rating (points):

80

100

80

82

84

86

88

90

92

94

96

98

100

Variety:

Malbec

Merlot

Moscato

Pinot Noir

Shiraz

Country of Origin:

Argentina

France

Germany

Italy

Spain

US

1. Flavour Profile

2. Value Chart

Prominent flavours of your current selection



Show 10 entries

Search:

	winery	designation	variety	country	province	points	price
1	Williams Selyem	Litton Estate Vineyard	Pinot Noir	US	California	100	100
2	Precious						

The main page with modified price range setting.

Screenshot 3

Wine Selection Tool

Welcome to the Wine Selection Tool for the [Wine Ratings](#) dataset. Find your favourite flavours and then move onto the value chart to find the best selection for your money.

Price Range (\$):

4

291

486

4 53 102 200 298 396 486

Rating (points):

80

89

100

80 82 84 86 88 90 92 94 96 98 100

Variety:

Malbec

Merlot

Moscato

Pinot Noir

Shiraz

Country of Origin:

Argentina

France

Germany

Italy


Spain

US

1. Flavour Profile

2. Value Chart

Prominent flavours of your current selection



Show 10 entries

Search:

	winery	designation	variety	country	province	points	price
1	Silvan Ridge	Freedom Hill Vineyard	Pinot Noir	US	Oregon	89	36

Charles

The main page with modified point range setting.

Screenshot 4

Wine Selection Tool

Welcome to the Wine Selection Tool for the [Wine Ratings](#) dataset. Find your favourite flavours and then move onto the value chart to find the best selection for your money.

Price Range (\$):

4 291 486

4 53 102 200 298 396 486

Rating (points):

80 89 100

80 82 84 86 88 90 92 94 96 98 100

Variety:

Malbec Merlot

Country of Origin:

Argentina France


Germany Italy Spain

US

1. Flavour Profile

2. Value Chart

Prominent flavours of your current selection



Word cloud containing: aromas, fruit, vanilla, black, spice, raspberry, followed, herbal, ripe, quite.

Show 10 entries

Search:

	winery	designation	variety	country	province	points	price
1	Château de Cénac	Cuvée Prestige	Malbec	France	Southwest France	89	26
2	Colter's	Colter's Creek	Malbec	US	Utah	88	22

The main page with modified wine variety settings.

Screenshot 5

Wine Selection Tool

Welcome to the Wine Selection Tool for the [Wine Ratings](#) dataset. Find your favourite flavours and then move onto the value chart to find the best selection for your money.

Price Range (\$):

4 291 486

4 53 102 200 298 396 486

Rating (points):

80 89 100

80 82 84 86 88 90 92 94 96 98 100

Variety:

Malbec Merlot

Country of Origin:

Argentina France Germany

Australia

Austria

Brazil

Bulgaria

Canada

Chile

1. Flavour Profile

2. Value Chart

Prominent flavours of your current selection

structure
aromas
fruits
black
ripe
wood
dry
fresh
herbal
also
plum

Show 10 entries

Search:

	winery	designation	variety	country	province	points	price
1	Château de Cénac	Cuvée Prestige	Malbec	France	Southwest France	89	26
	Grand Reserve						

The main page with modified country settings.

Screenshot 6

Wine Selection Tool

Welcome to the Wine Selection Tool for the [Wine Ratings](#) dataset. Find your favourite flavours and then move onto the value chart to find the best selection for your money.

Price Range (\$):

4

486

Rating (points):

80

100

Variety:

Malbec

Merlot

Country of Origin:

Argentina

France

Germany

1. Flavour Profile

2. Value Chart

Blue : Good Value
Red : Poor Value

Price

Points

Value Meter:

100

0

Wines to compare in the chart:

10

Show 10 entries

Search:

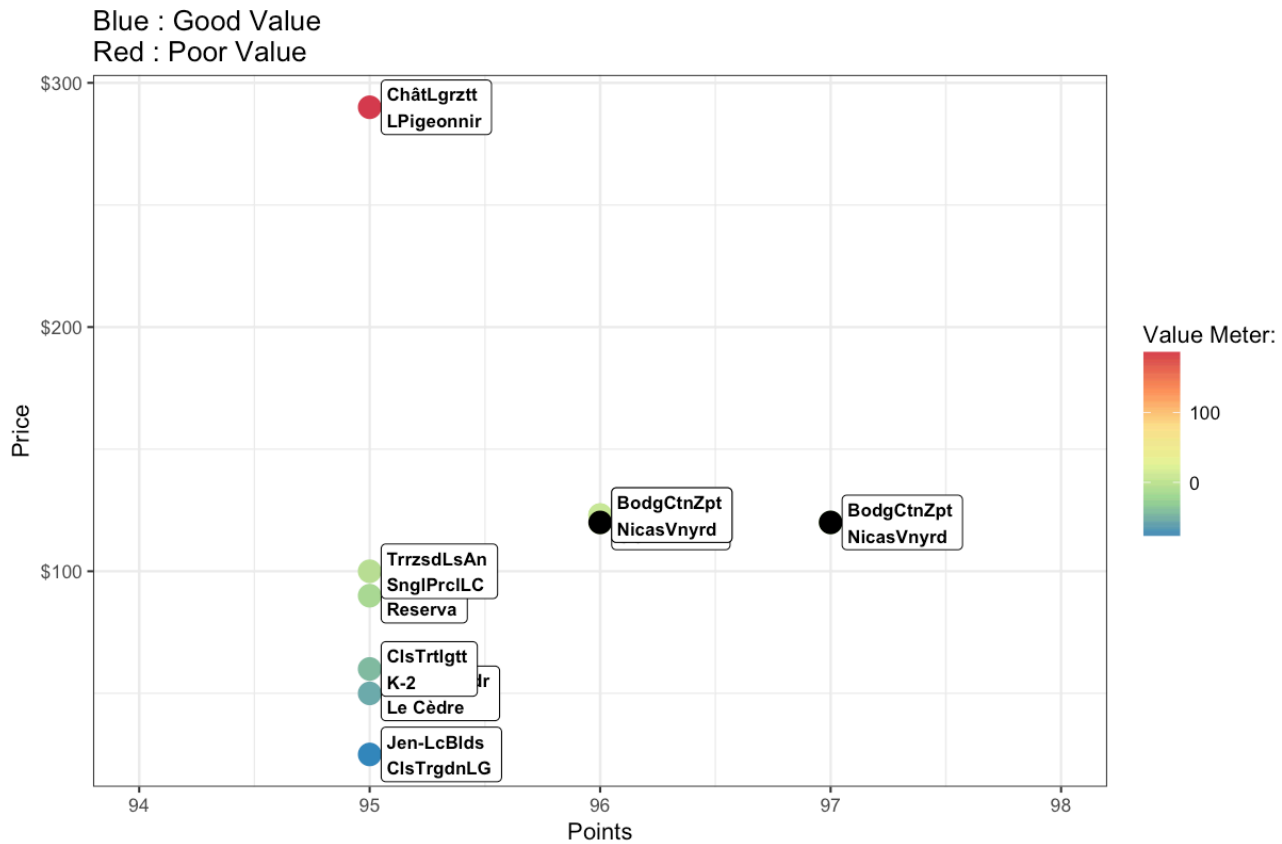
	winery	designation	variety	country	province	points	price
1	Bodega Catena Zapata	Nicasia Vineyard	Malbec	Argentina	Mendoza Province	97	120

The value chart with interactivity with the value plot. Selected rows on the table will highlight values on the chart.

Screenshot 7

1. Flavour Profile

2. Value Chart



Wines to compare in the chart:

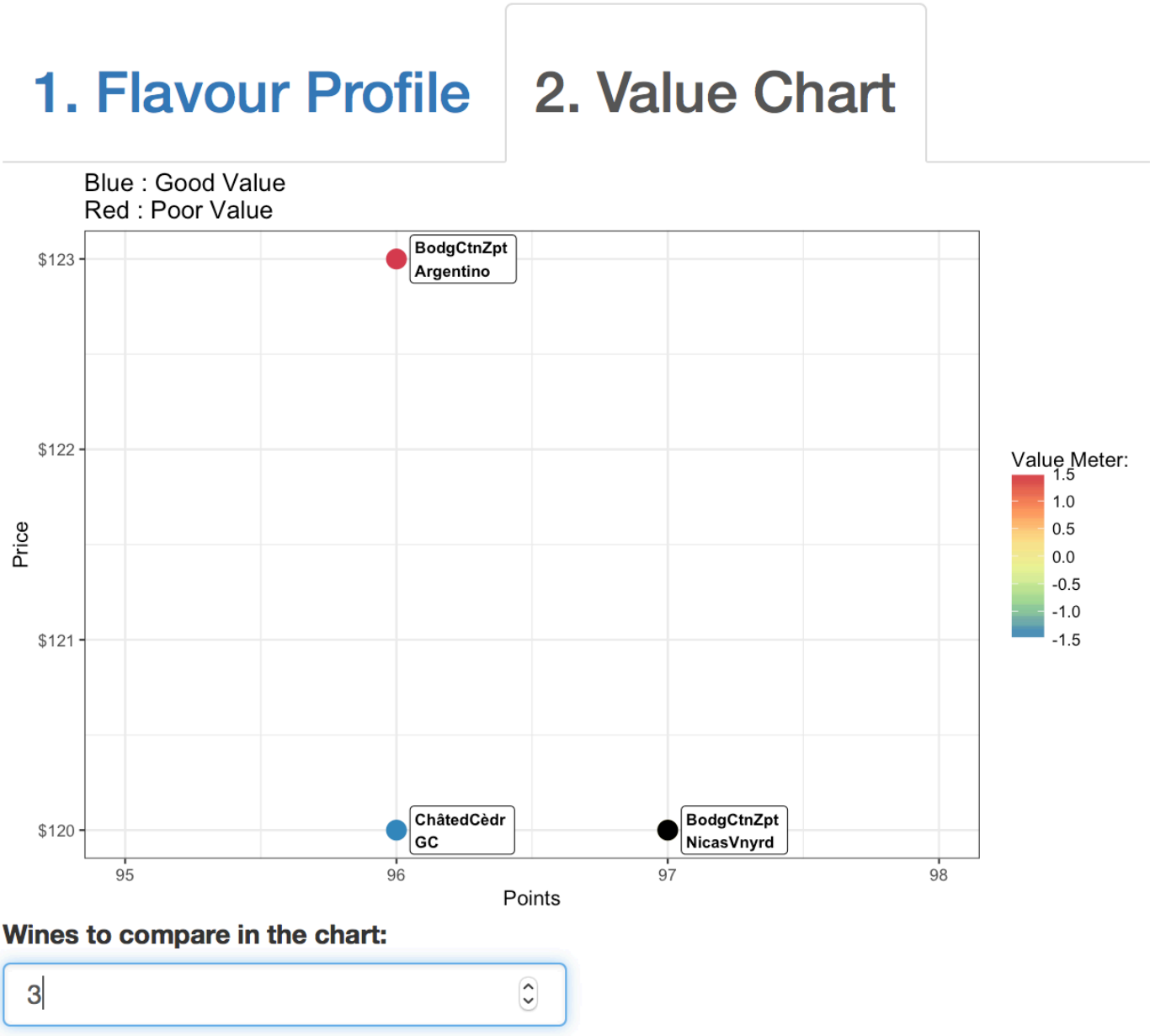
Show entries

Search:

	winery	designation	variety	country	province	points	price
1	Bodega Catena Zapata	Nicasia Vineyard	Malbec	Argentina	Mendoza Province	97	120
2	Château du Cèdre	GC	Malbec	France	Southwest France	96	120

The rendered datatable with varying size.

Screenshot 8



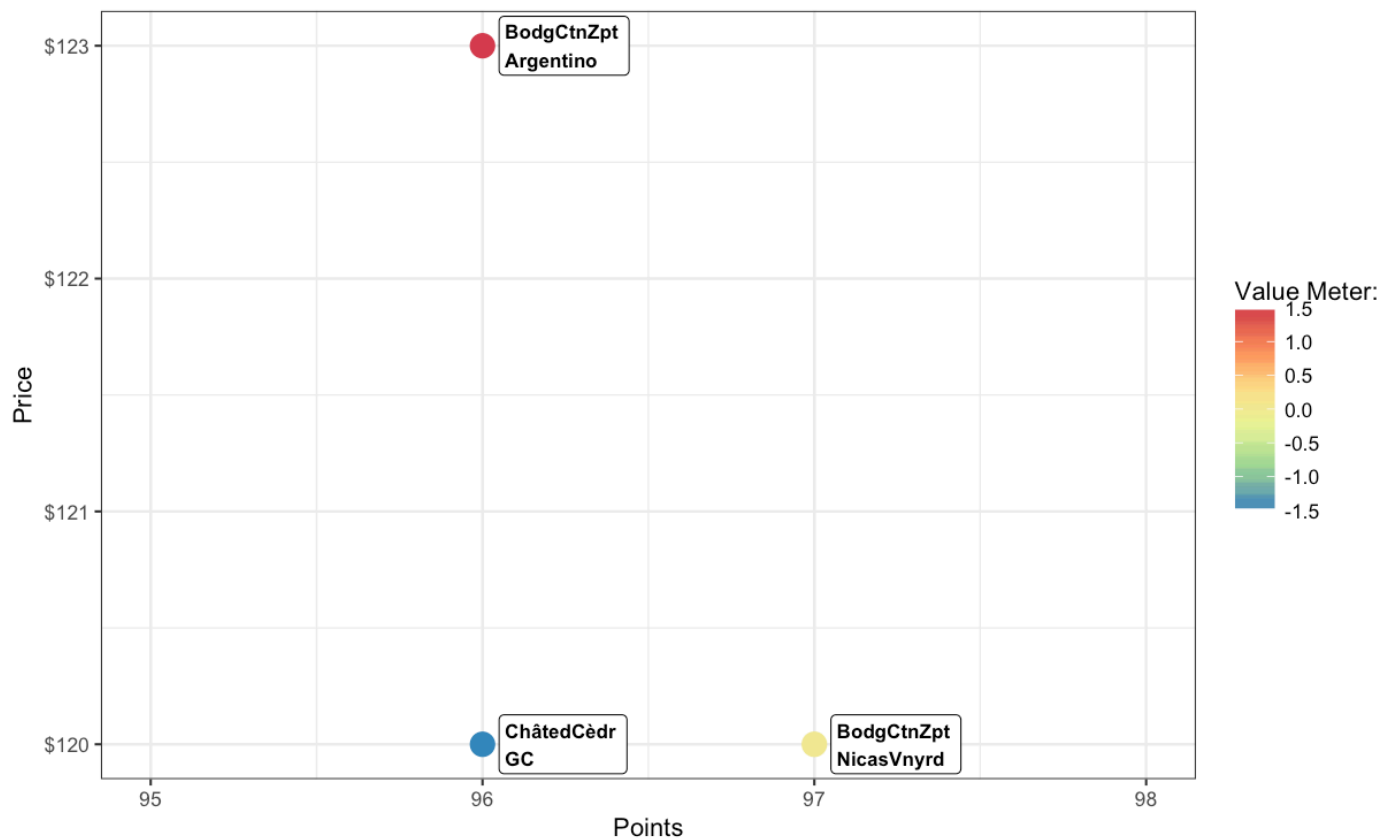
The reduced the number of points on the value chart using the numeric selector.

Screenshot 9

1. Flavour Profile

2. Value Chart

Blue : Good Value
Red : Poor Value



Wines to compare in the chart:

Deselected all points.