

WICKED WINES

Wine Buying Behaviour of US Consumers

23 Oct 2020 (updated on 2020-10-26)

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1 Wine Consumer Feelings Data

1.1 An overview of data

```
## Rows: 15
## Columns: 69
## $ 'Participant ID'
## $ Age
## $ '1'
## $ '2'
## $ '3'
## $ '4'
## $ '5'
## $ '6'
## $ '7'
## $ '8'
## $ '9'
## $ '10'
## $ '11'
## $ '12'
## $ '13'
## $ '14'
## $ '15'
## $ '16'
## $ '17'
## $ '18'
## $ '19'
## $ '20'
## $ '21'
## $ '22'
## $ '23-Wine Spectator'
## $ '23-Wine Enthusiast'
## $ '23-Robert Parker's Wine Advocate'
## $ '23-Food & Wine'
## $ '23-Bon Appetit'
## $ '23-Decantur'
## $ '24'
## $ '25-a'
## $ '25-b'
## $ '25-c'
## $ '25-d'
## $ '25-e'
## $ '26-a'
## $ '26-b'
## $ '26-c'
## $ '26-d'
## $ '26-e'
## $ '26-f'
## $ '26-g'
## $ '26-h'
## $ '27'
## $ '28-a'
## $ '28-b'
## $ '28-c'
```

<dbl>	1	2	3	4	5	6	7	8	9	10	1...
<dbl>	38	48	35	26	45	55	51	34	...		
<dbl>	5	3	3	1	4	5	3	5	3	3	5,...
<dbl>	4	4	2	2	4	4	3	4	3	2	4,...
<dbl>	5	5	4	4	5	5	5	5	4	4	5,...
<dbl>	5	3	3	3	5	5	5	4	3	3	5,...
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<dbl>	5	3	5	1	4	5	4	5	3	3	5,...
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<dbl>	5	3	2	2	5	5	5	4	3	5	5,...
<dbl>	3	2	1	4	1	3	4	1	4	2	2,...
<dbl>	5	1	1	1	3	4	3	5	3	1	3,...
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<dbl>	5	3	5	3	5	5	5	5	4	1	5,...
<dbl>	5	2	1	3	5	5	5	5	3	3	3,...
<dbl>	5	3	3	5	5	5	4	5	4	4	3,...
<dbl>	5	3	1	3	5	4	4	5	4	4	4,...
<dbl>	5	5	5	5	5	5	5	5	4	5	5,...
<dbl>	4	3	3	4	2	3	5	4	5	1	2,...
<dbl>	5	3	5	5	5	4	4	4	3	3	4,...
<dbl>	4	2	5	4	5	3	5	5	3	4	4,...
<dbl>	4	1	4	1	4	2	4	4	3	2	4,...
<dbl>	5	4	1	5	2	2	4	4	2	3	2,...
<dbl>	5	3	4	2	5	5	5	5	4	3	4,...
<dbl>	1	0	0	0	1	0	0	1	0	0	1,...
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<dbl>	0	0	0	0	0	0	0	0	0	0	0,...
<dbl>	1	1	0	0	1	1	0	0	1	0	0,...
<dbl>	0	0	0	0	0	0	1	0	1	1	1,...
<dbl>	1	0	0	0	1	0	1	1	0	1	0,...
<dbl>	0	0	0	0	0	1	0	1	0	1	0,...
<dbl>	0	0	0	0	0	0	0	0	0	0	0,...
<dbl>	0	0	1	0	0	0	0	0	0	0	0,...
<dbl>	1	0	1	0	1	1	0	0	0	1	1,...
<dbl>	0	0	0	0	0	0	1	1	0	0	0,...
<dbl>	0	1	0	1	0	0	0	0	0	1	0,...
<dbl>	0	0	0	1	1	0	0	0	1	0	0,...
<dbl>	0	0	1	0	0	0	0	0	0	0	0,...
<dbl>	0	0	0	0	0	0	0	0	0	0	0,...
<dbl>	0	0	0	0	0	0	1	0	0	0	0,...
<dbl>	0	0	0	0	0	1	1	0	0	1	1,...
<dbl>	1	2	2	2	1	1	1	1	1	1	1,...
<dbl>	0	0	0	0	1	0	0	1	0	1	1,...
<dbl>	1	0	0	0	0	0	1	1	0	0	0,...
<dbl>	0	0	0	0	1	0	0	1	0	1	1,...

## \$ '28-d'	<dbl> 1, 0, 0, 0, 0, 1, 1, 0, 1, 0, 0,...
## \$ '28-e'	<dbl> 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0,...
## \$ '28-f'	<dbl> 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1,...
## \$ '29-a'	<dbl> 7, 2, 6, 4, 4, 7, 4, 7, 6, 4, 4,...
## \$ '29-b'	<dbl> 3, 4, 5, 7, 5, 6, 7, 4, 5, 6, 5,...
## \$ '29-c'	<dbl> 6, 1, 7, 2, 7, 4, 2, 3, 1, 5, 7,...
## \$ '29-d'	<dbl> 4, 3, 1, 1, 2, 3, 1, 1, 3, 3, 2,...
## \$ '29-e'	<dbl> 5, 7, 3, 5, 6, 2, 5, 5, 4, 7, 6,...
## \$ '29-f'	<dbl> 2, 6, 4, 6, 3, 5, 6, 6, 7, 2, 3,...
## \$ '29-g'	<dbl> 1, 5, 2, 3, 1, 1, 3, 2, 2, 1, 1,...
## \$ '29-h'	<dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,...
## \$ '30'	<dbl> 2, 2, 1, 2, 2, 2, 2, 2, 2, 3, 2,...
## \$ '31'	<dbl> 1, 5, 5, 4, 4, 4, 5, 2, 3, 1, 1,...
## \$ '32'	<dbl> 4, 1, 1, 1, 3, 4, 1, 2, 2, 4, 4,...
## \$ '33'	<dbl> 2, 2, 3, 1, 4, 4, 4, 1, 2, 1, 1,...
## \$ '34'	<dbl> 2, 2, 2, 1, 3, 2, 2, 2, 1, 2, 3,...
## \$ '35'	<dbl> 2, 1, 2, 1, 1, 1, 2, 1, 1, 1, 1,...
## \$ '36'	<dbl> 1, 2, 1, 1, 1, 2, 1, 1, 1, 6, 5,...
## \$ '37'	<dbl> 4, 5, 3, 4, 5, 4, 4, 4, 3, 4, 5,...
## \$ '38'	<dbl> 4, 4, 4, 1, 4, 4, 6, 4, 1, 5, 4,...
## \$ '39'	<dbl> 3, 6, 4, 2, 3, 6, 1, 3, 3, 6, 6,...

1.2 Variables renamed

## [1] "id"	"age"	"adequate"	"irrelevant"	"interest"
## [6] "decision"	"care"	"choose"	"discount"	"think"
## [11] "status"	"read"	"color"	"aroma"	"course"
## [16] "positive"	"fairs"	"enjoy"	"image"	"indulge"
## [21] "benefit"	"type"	"easy"	"learn"	"pubspec"
## [26] "pubenth"	"pubadv"	"pubfoo"	"pubapp"	"pubdec"
## [31] "sublist"	"ptrcd"	"pt90"	"ptabs"	"ptatt"
## [36] "ptunf"	"chopt"	"chont"	"chofrds"	"chostrs"
## [41] "chorvw"	"chopub"	"choweb"	"chopro"	"wedu"
## [46] "crstas"	"crsuni"	"crsdin"	"crsweb"	"crssem"
## [51] "crsself"	"chonot"	"chopri"	"chopnt"	"choadv"
## [56] "chofrd"	"choind"	"chostr"	"chooth"	"consout"
## [61] "spendout"	"conshm"	"spendhm"	"gender"	"marital"
## [66] "edu"	"ethnic"	"income"	"39"	

1.3 Missing values

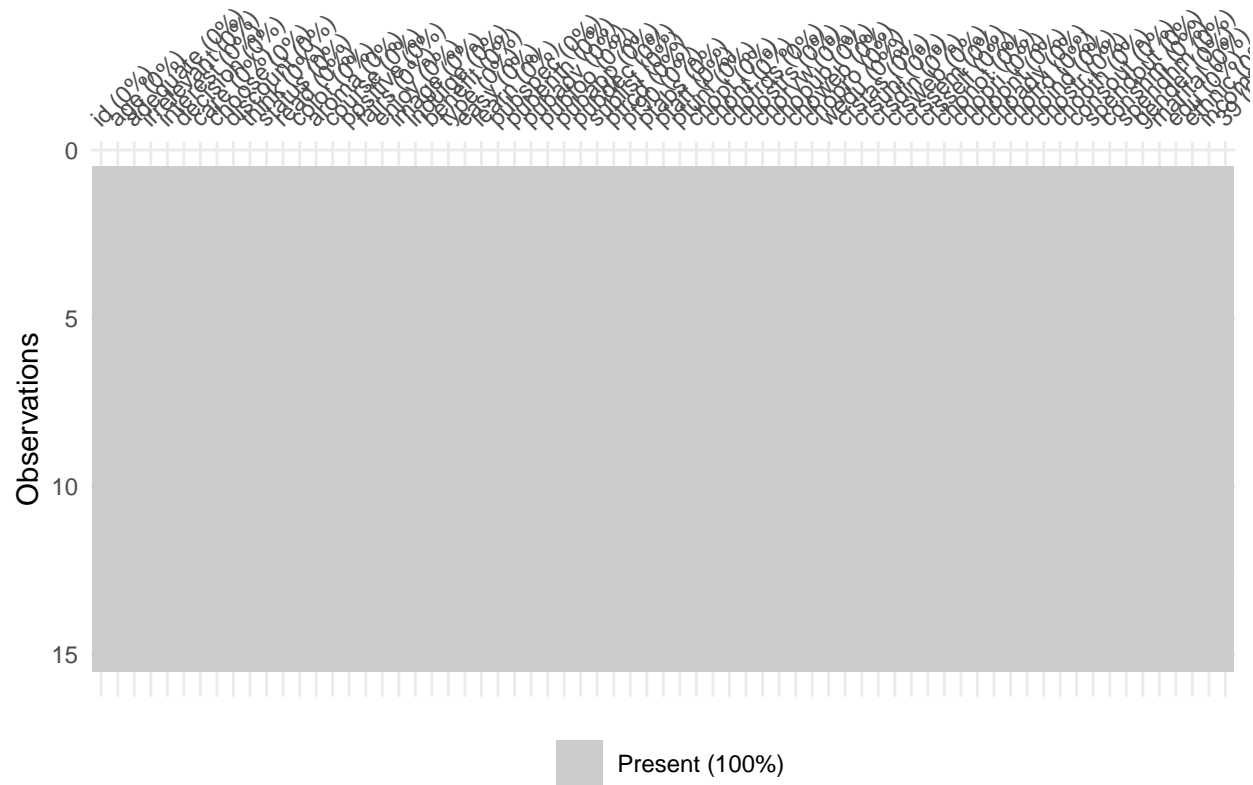


Figure 1: Pattern of missing values

1.4 Consumer feeling toward wine tasting

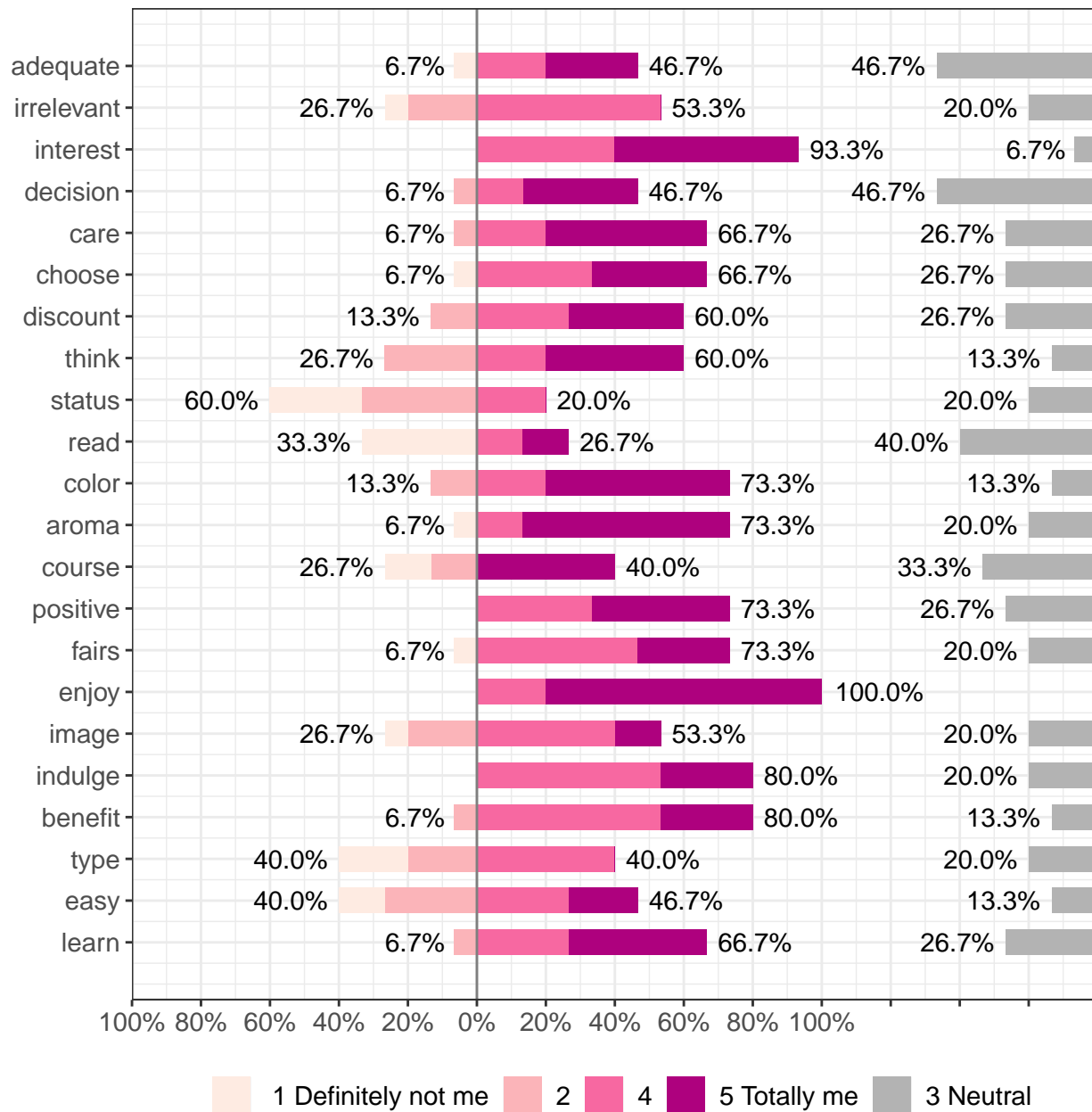
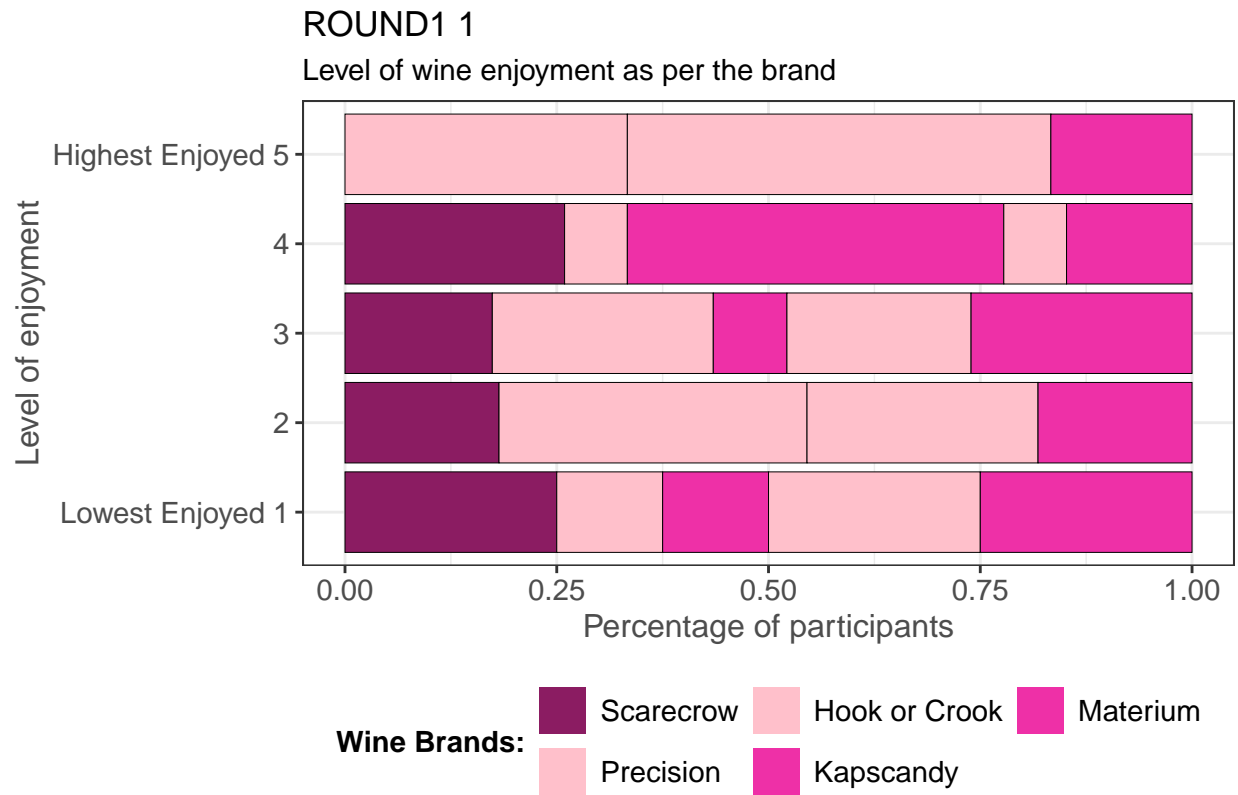


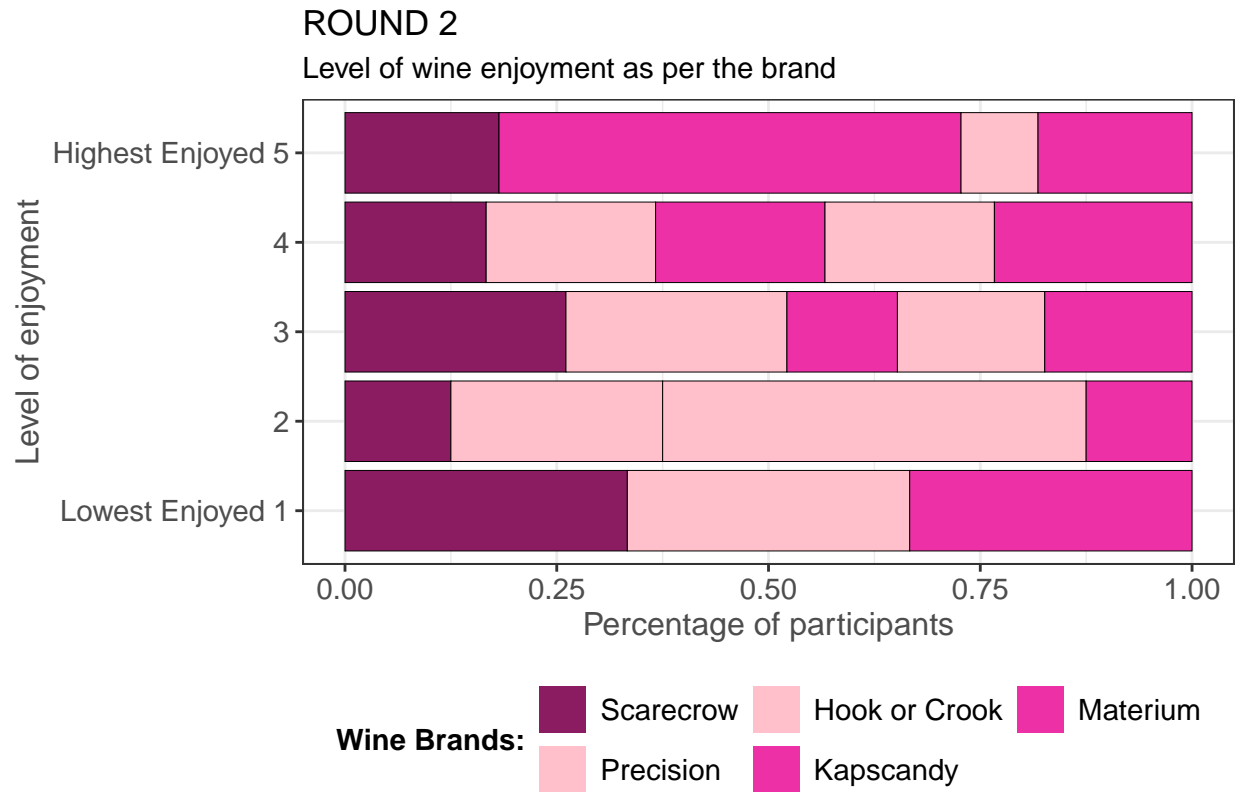
Figure 2: Consumer feelings toward wine and wine consumption

2 Level of enjoyment as per the wine brand

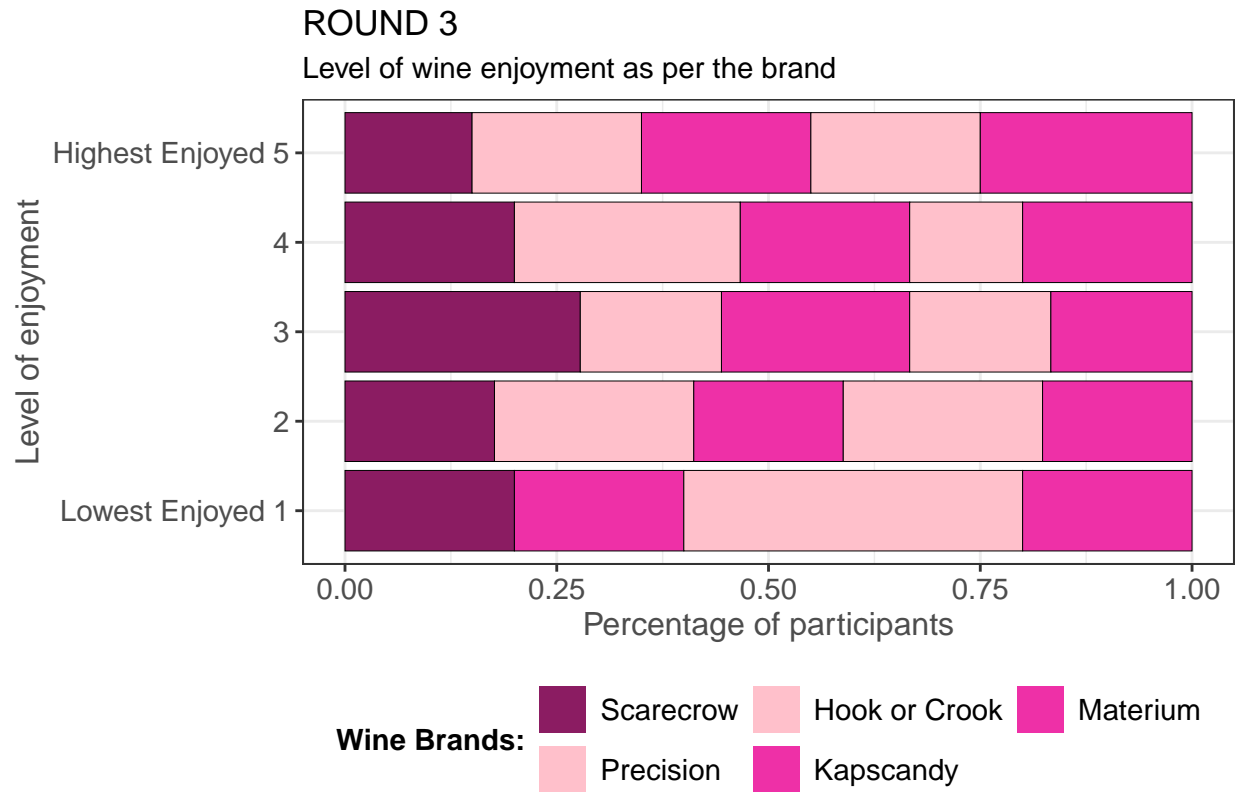
2.1 Round 1



2.2 Round 2



2.3 Round 3



3 In three different studies how consumer's level of wine enjoyment related with their intention to re-drink the same wine?

Pearson's **chi-square test** is used to find the correlation between the level of wine enjoyment and consumer's intention to re-drink the same wine.

3.1 Round 1

```
## [1] "participant1" "brand1"          "enjoy1"          "drink1"

##
##  1  2  3  4  5
##  8 11 23 27  6

##
##  0  1
## 31 44

##
##      0  1
##  1  8  0
##  2  8  3
##  3 13 10
##  4  2 25
##  5  0  6

##
##  Pearson's Chi-squared test
##
## data:  table(round1a$enjoy1, round1a$drink1)
## X-squared = 35.057, df = 4, p-value = 4.523e-07
```

3.2 Round 2

```
## [1] "participant2" "brand2"          "enjoy2"          "drink2"

##
##  1  2  3  4  5
##  3  8 23 30 11

##
##  0  1
## 20 55

##
##      0  1
##  1  3  0
##  2  8  0
##  3  9 14
##  4  0 30
##  5  0 11
```

```
##
## Pearson's Chi-squared test
##
## data:  table(round2a$enjoy2, round2a$drink2)
## X-squared = 46.986, df = 4, p-value = 1.535e-09
```

3.3 Round 3

```
## [1] "participant3" "brand3"          "enjoy3"          "drink3"
```

```
##
##  1  2  3  4  5
##  5 17 18 15 20
```

```
## < table of extent 0 >
```

```
##
##      0  1
##    1  5  0
##    2 15  2
##    3 10  8
##    4  0 15
##    5  0 20
```

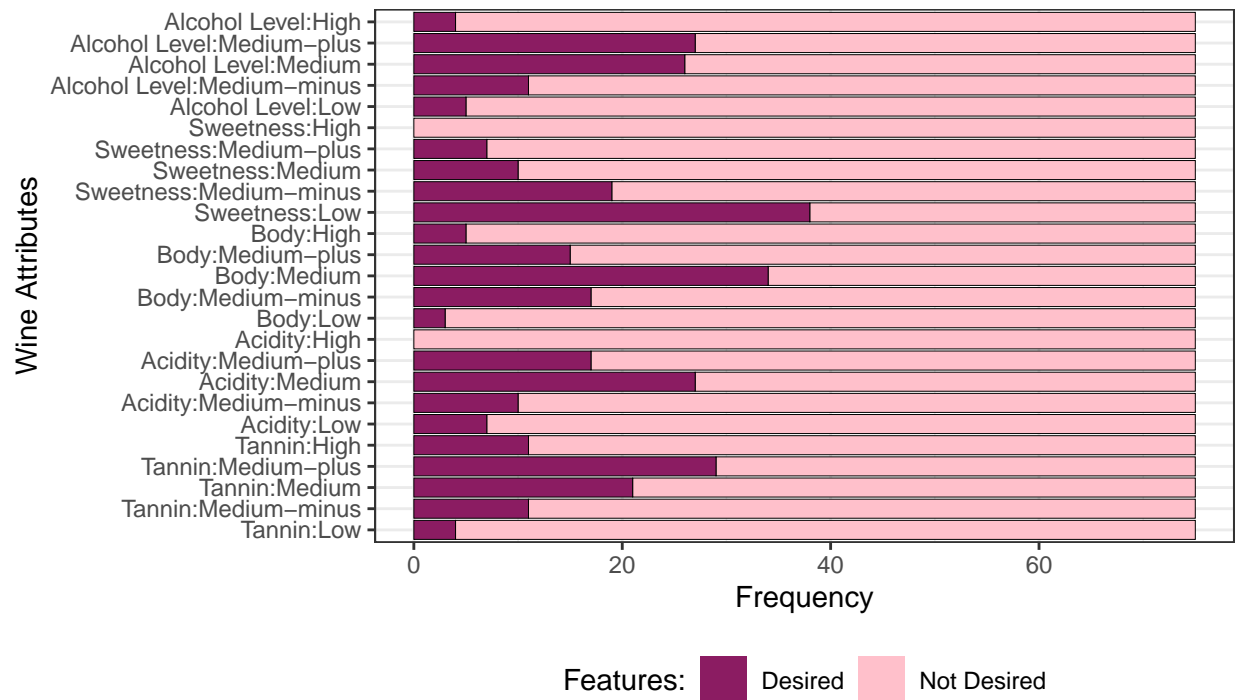
```
##
## Pearson's Chi-squared test
##
## data:  table(round3a$enjoy3, round3a$drink3)
## X-squared = 49.129, df = 4, p-value = 5.489e-10
```

4 Relationship between the levels of wine attributes and consumer's wine enjoyment score.

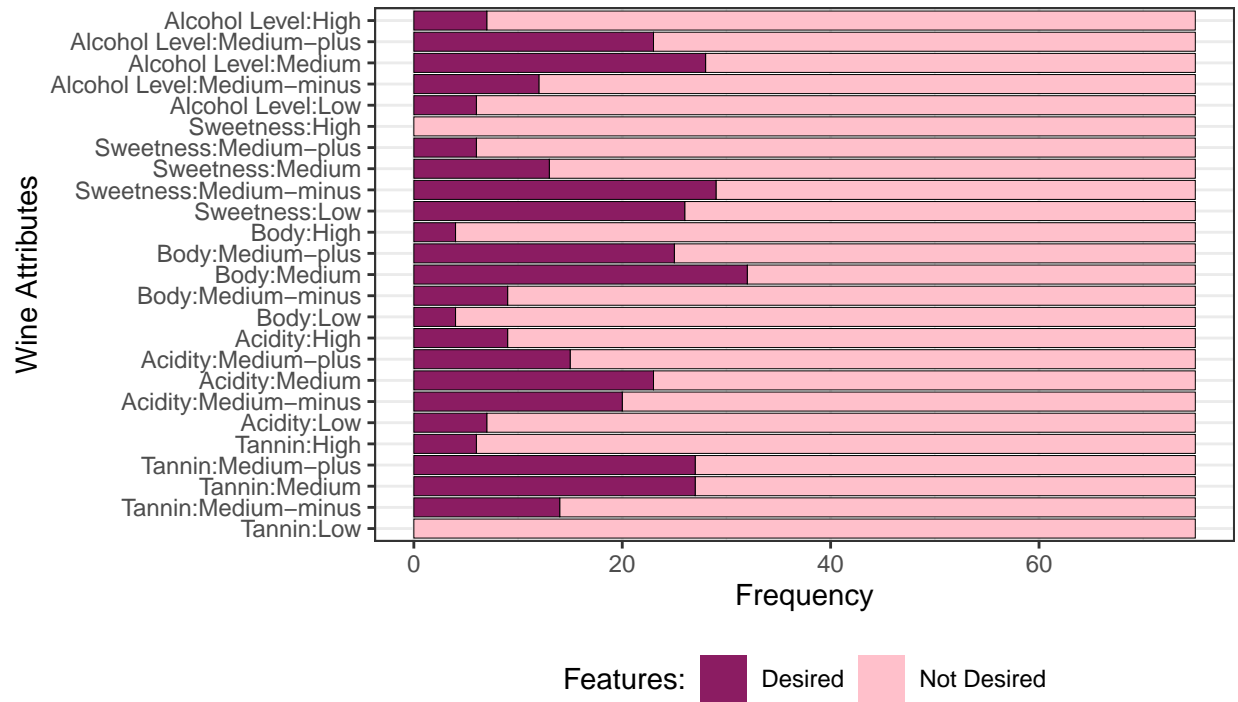
This will help us to understand for which brand which particular attribute is playing a major role in the higher or lower wine enjoyment score.

4.1 The most desired wine feature

ROUND 1



ROUND 2



ROUND 3

