Beer Awards Analysis

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1 Text Formatting

1.1 Examples of Text Formatting

You can format words in *italics* or **bold**.

- first item of a list
- second item of a list
- 1. first item in numbered list
- 2. second item in numbered list
- 3. third item in numbered list

This is quote

2 Beer Awards Analysis

Here's what my data like (displaying first six rows).

medalbeer_name	brewery	city state	category	year macro_	_categery	negion	state_nstate_division
Gold Volksbier Vienna	Wibby Brewing	LongmoftO	American Amber Lager	2020 lager	104247	West	ColoradMountain
Silver Oktoberfes	t Founders Brewing Co.	Grand MI Rapids	American Amber Lager	$2020\mathrm{lager}$	58216	North Central	MichigaÆast North Central

medalbeer_name	e brewery	city state	category	year macro_	_castege <u>ry</u> a	negion	state_nstate_divisi
Bronz&mber Lager	Skipping Rock Beer Co.	StauntonVA	American Amber Lager	2020 lager	40815	South	VirginiaSouth Atlantic
Gold Lager at World's End	Epidemic Ales	ConcordCA	American Lager	$2020\mathrm{lager}$	158693	West	Californ Pacific
Silver Seismic Tremor	Seismic Brewing Co.	Santa CA Rosa	American Lager	$2020\mathrm{lager}$	158693	West	Californ Pacific
Bronz&ite Thinking	Pollyanna Brewing Co.	Lemont IL	American Lager	$2020\mathrm{lager}$	56400	North Central	Illinois East North Central

My data questions are as follows:

- 1. Which region in the US has received the most beer awards?
- 2. Which beer type has won the most awards across different regions in the US?
- 3. Which beet type has won the most awards across different years?

2.1 Awards per Region

First, we need to count how many beer awards per region.

```
# start with beer awards data, filter out DC
# count awards (rows) per region
beer_awards %>%
  filter(region != "District of Columbia") %>%
  count(region) %>%
  arrange(-n) %>%
  kable(col.names = c("Region in the US", "Total Number of Awards"),
       caption = "Total number of awards per region (1987-2020)")
```

Table 2: Total number of awards per region (1987-2020)

Total Number of Awards
2659
983
787
537

We might need to consider the different number of states per regions.

```
# start with beer awards data, filter out DC
# count awards per state and region
beer_awards %>%
  filter(region != "District of Columbia") %>%
  count(state, region) %>%
  group_by(region) %>%
```

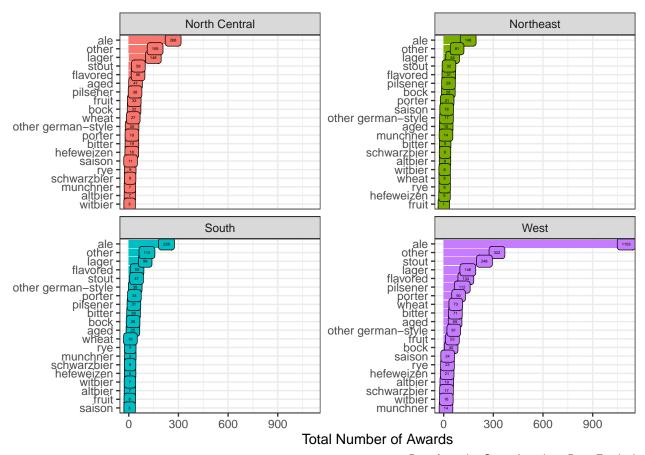
Region in the US	Average Number of Awards
West	204.54
North Central	81.92
Northeast	59.67
South	52.47

Going back to our data question (Which region in the US has received the most beer awards?), I would say that it is the West.

2.2 Analysis of Beer Types

Here's a dictionary of beer types. Macro categories (also referred to as beer type) was defined by the words used in the variable category. See Table 1 for a reference of what categories are included into each beer type.

Macro-Category	Explanation
Aged Ale	Aged beers such as Fruited Wood- and Barrel-Aged Sour Beer Ales such as American-Style Cream Ale



Data from the Great American Beer Festival

```
# get 5 types with the most awards
beer_awards %>%
  filter(macro_category != "other") %>%
  count(macro_category) %>%
  arrange(-n)
```

```
## # A tibble: 19 x 2
      macro_category
##
                               n
##
      <chr>
                           <int>
##
                            1750
    1 ale
##
    2 lager
                             447
##
    3 stout
                             383
                             272
##
    4 flavored
##
    5 pilsener
                             210
##
    6 porter
                             164
##
    7 aged
                             150
##
    8 other german-style
                             137
##
    9 bock
                             131
## 10 bitter
                             128
## 11 wheat
                             116
## 12 fruit
                              93
## 13 saison
                              58
## 14 hefeweizen
                              52
                              47
## 15 rye
```

```
## 16 munchner 44
## 17 altbier 41
## 18 schwarzbier 41
## 19 witbier 34
```

