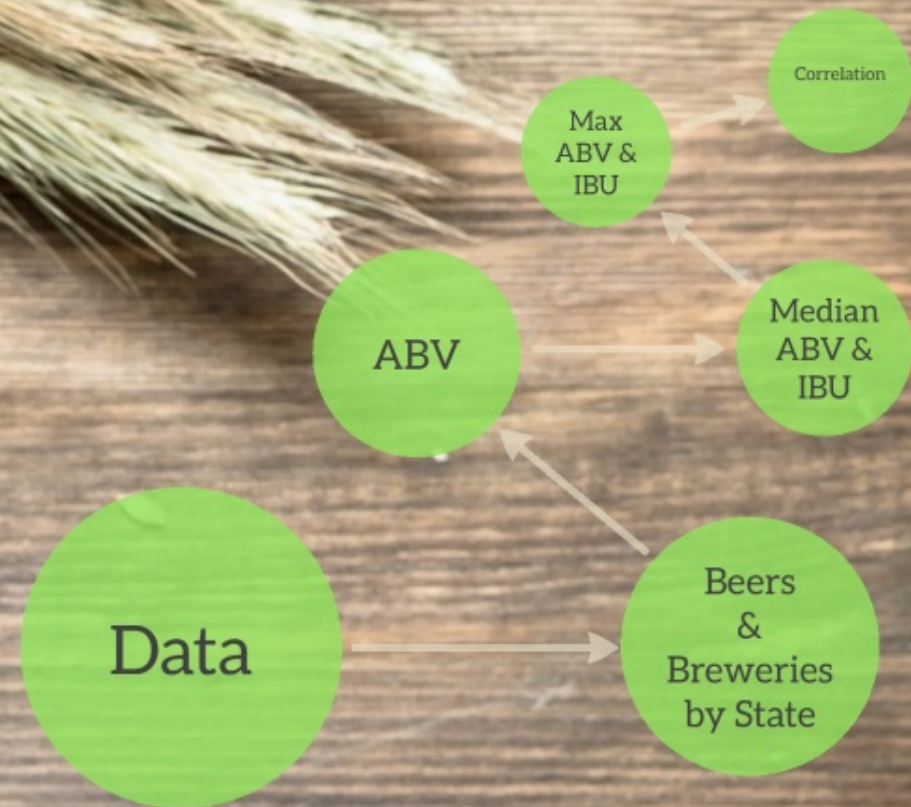


# Craft Beers & Breweries



Reannan McDaniel & Jenna Ford  
Image credit: Artem Shadrin/Shutterstock.com

## Data

- 558 US breweries
- 2410 US craft beers
- Key fields include:
  - Brewery
  - Brewery State
  - Beer
  - Beer Style
  - ABV (Alcohol by Volume)
  - IBU (International Bitterness Units)
  - Ounces

Missing  
Values

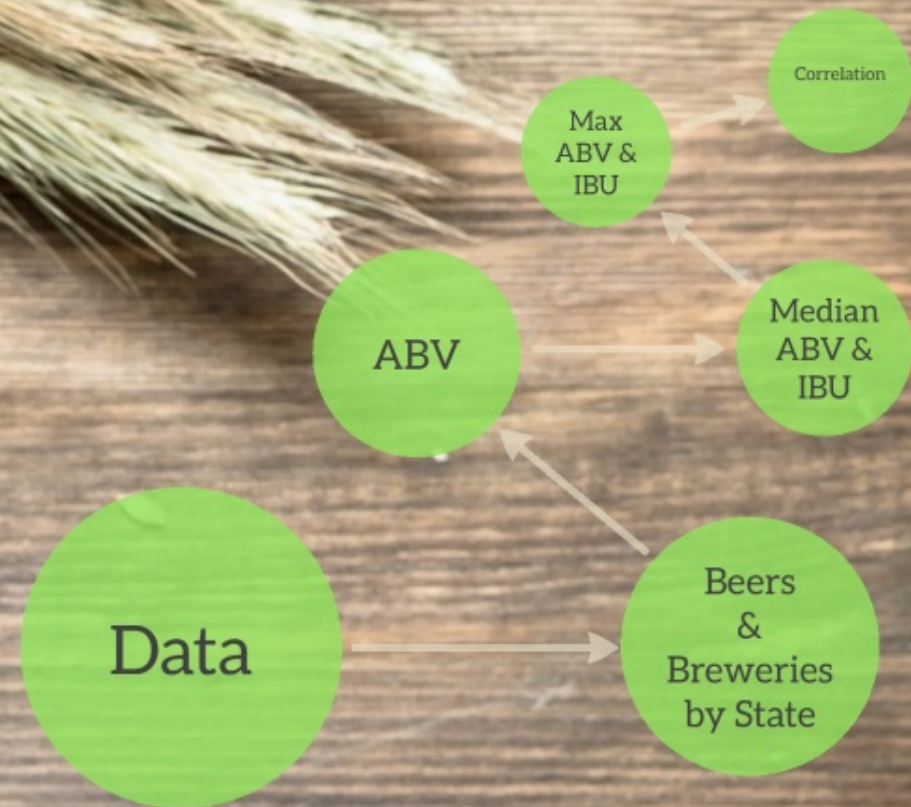
# Missing Values



- 42% of records are missing IBU
- 3% of records are missing ABV
- If ABV is missing, so is IBU
- South Dakota has no records with IBU populated

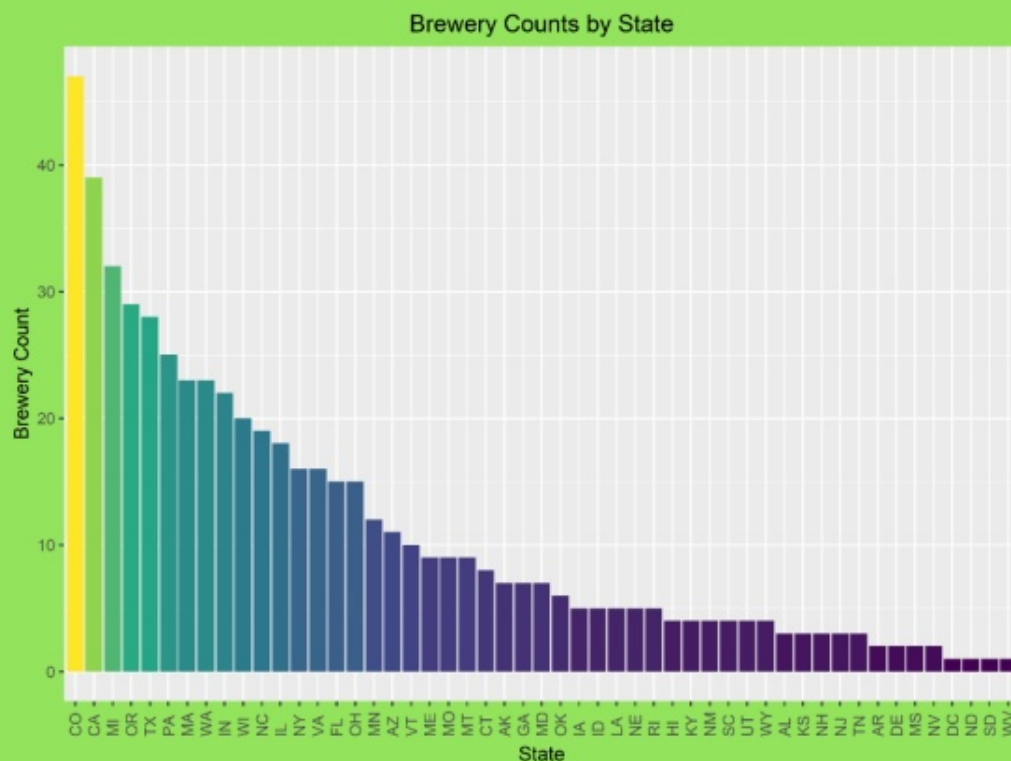


# Craft Beers & Breweries



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# Breweries by State

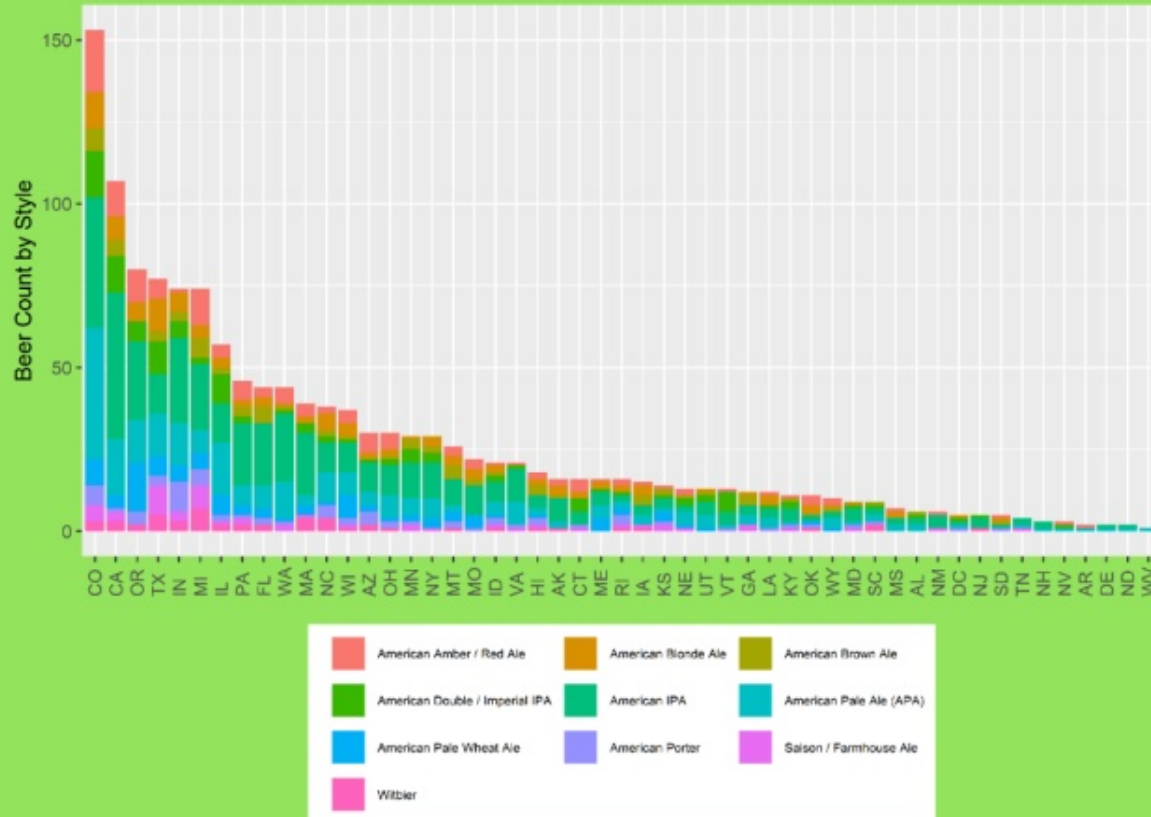


- All 50 states, including DC, have at least 1 brewery
- There are 33 states (including DC) that have 10 or less breweries

Beer Trends

# Top 10 Beer Styles

Top 10 Beer Styles by State



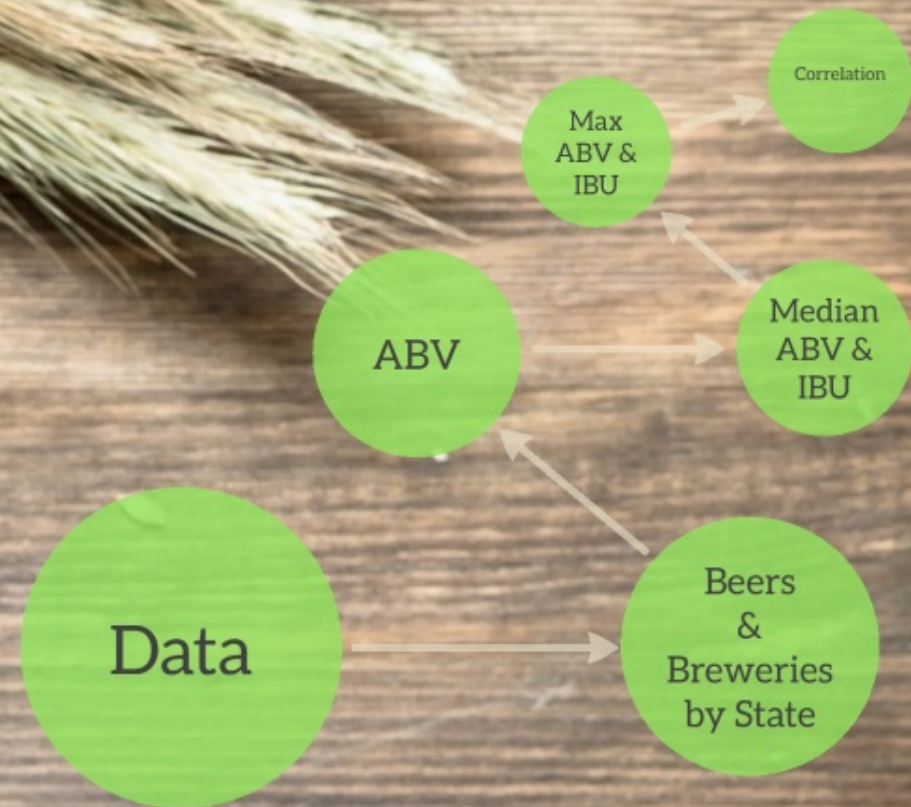
## Top 10 Beer Styles

Descending Frequency

- American IPA
- American Pale Ale (APA)
- American Amber/Red Ale
- American Blonde Ale
- American Double/Imperial IPA
- American Pale Wheat Ale
- American Brown Ale
- American Porter
- Saison/Farmhouse Ale
- Witbier



# Craft Beers & Breweries



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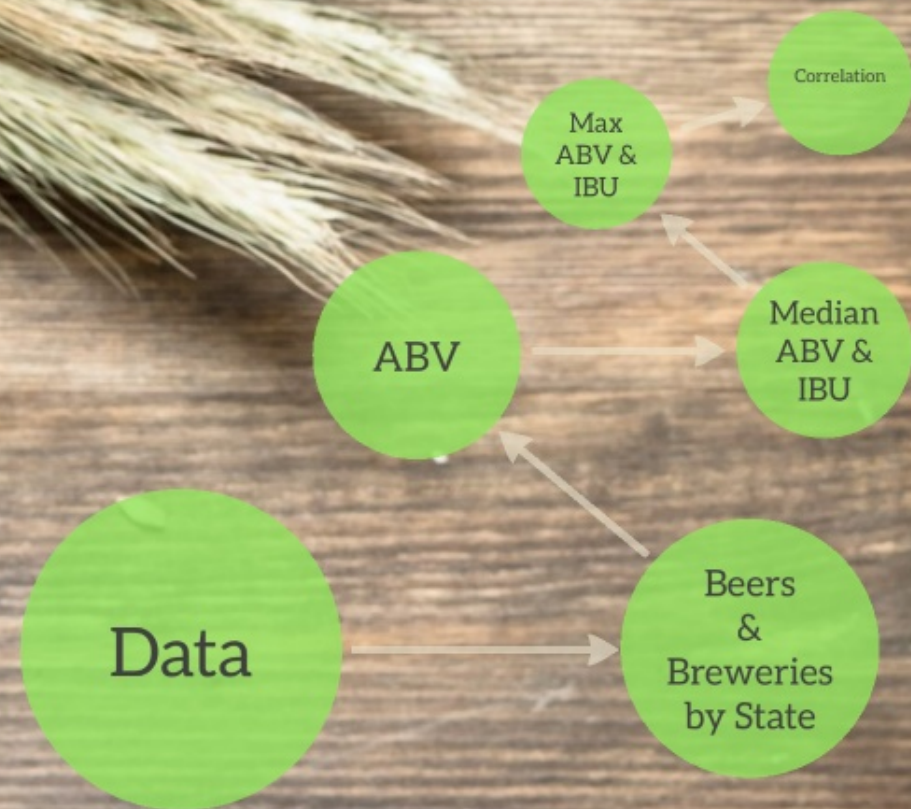
## Quick glance at key ABV statistics



- Average is 6%
- Median is 5.6%
- Min value is 0.1%
- Max value is 12.8%
- Middle 50% of data falls between 5% and 6.7%
- 62 observations where ABV is missing

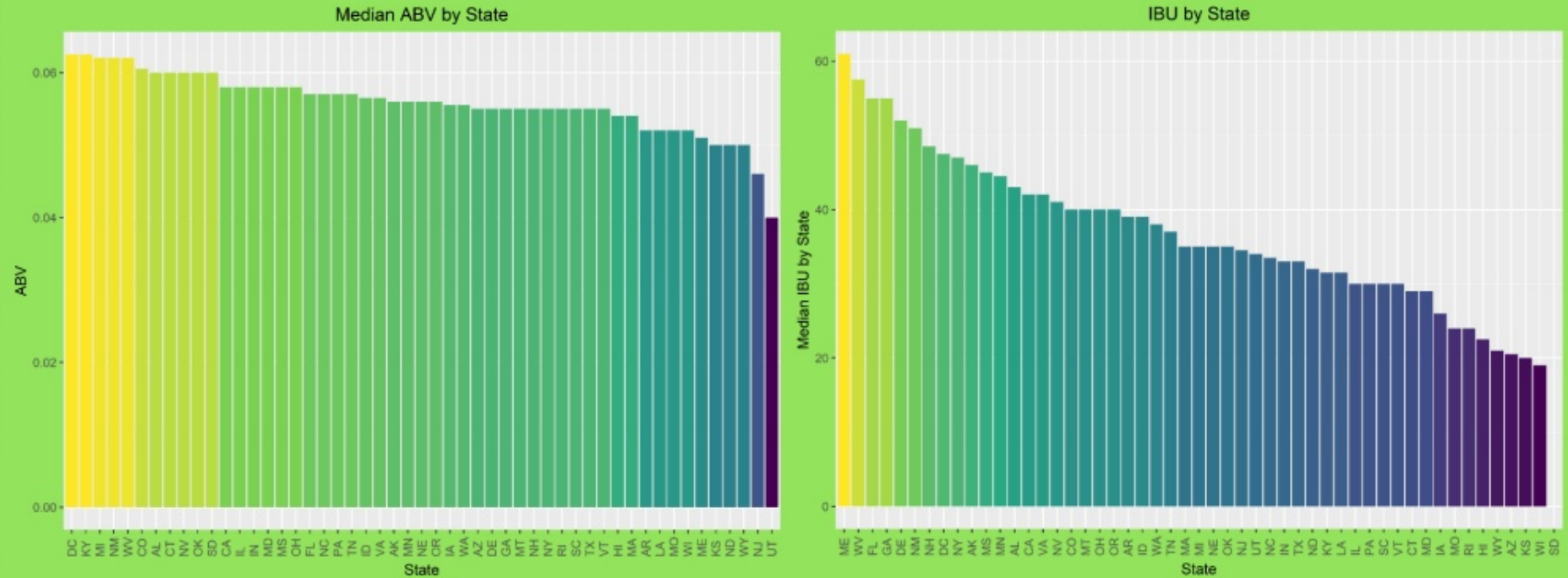


# Craft Beers & Breweries



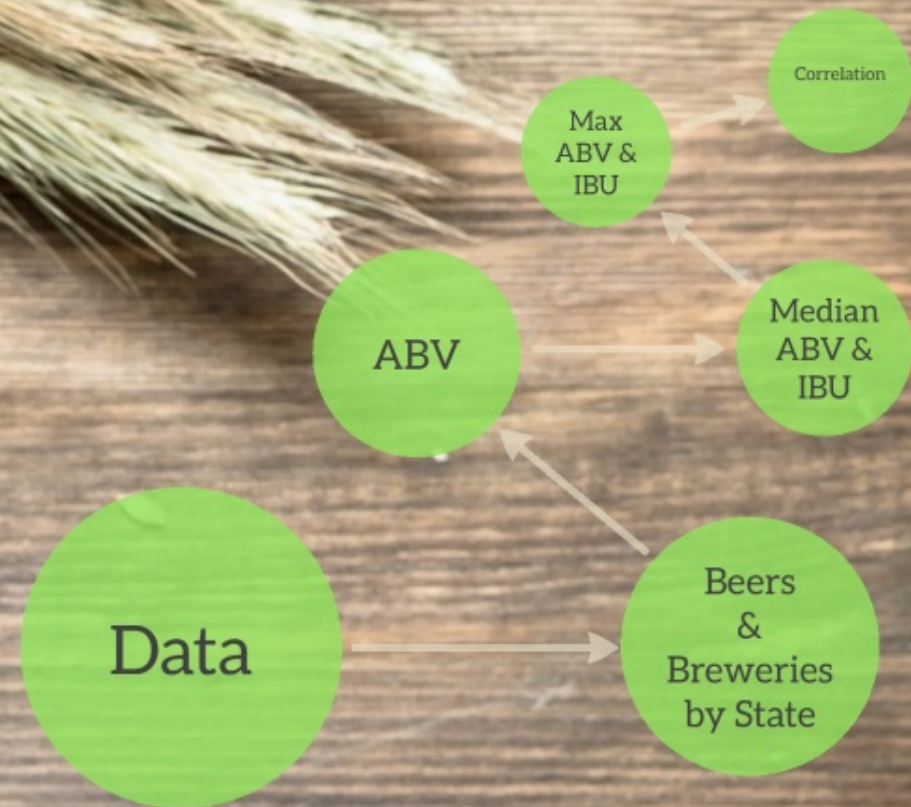
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# Median ABV & IBU





# Craft Beers & Breweries



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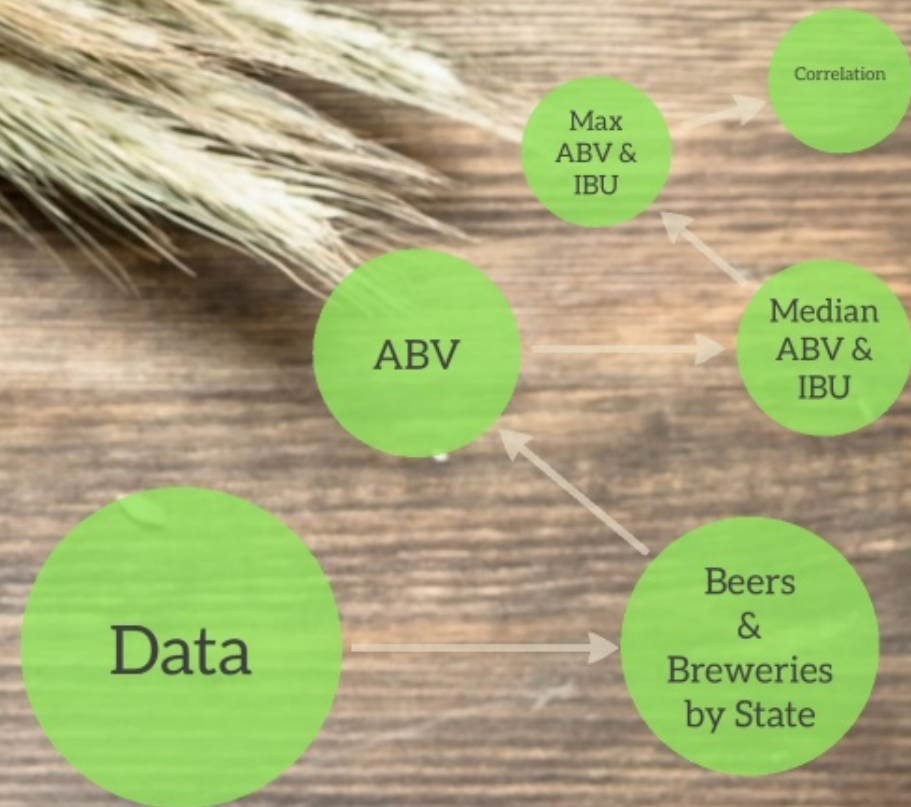
### Highest Alcohol Content Beer

- Colorado has the highest ABV for a single beer with an ABV of 0.128 in a 19.2oz container
- The beer name is "Lee Hill Series Vol.5 - Belgian Style Quadrupel Ale"
- Beer Style is a Quadrupel (Quad)
- The brewery is Upslope Brewing Company
- This brewery has 2 beers over 0.1 ABV and 2 right at 0.9 ABV - there is not another brewery with similar outcome

### Most Bitter Beer

- Oregon has a beer with the most bitter IBU at 138 packed in 12oz
- The beer name is "Bitter Bitch Imperial IPA"
- Beer style is a American Double / Imperial IPA
- This beer comes out of the Astoria Brewing Company

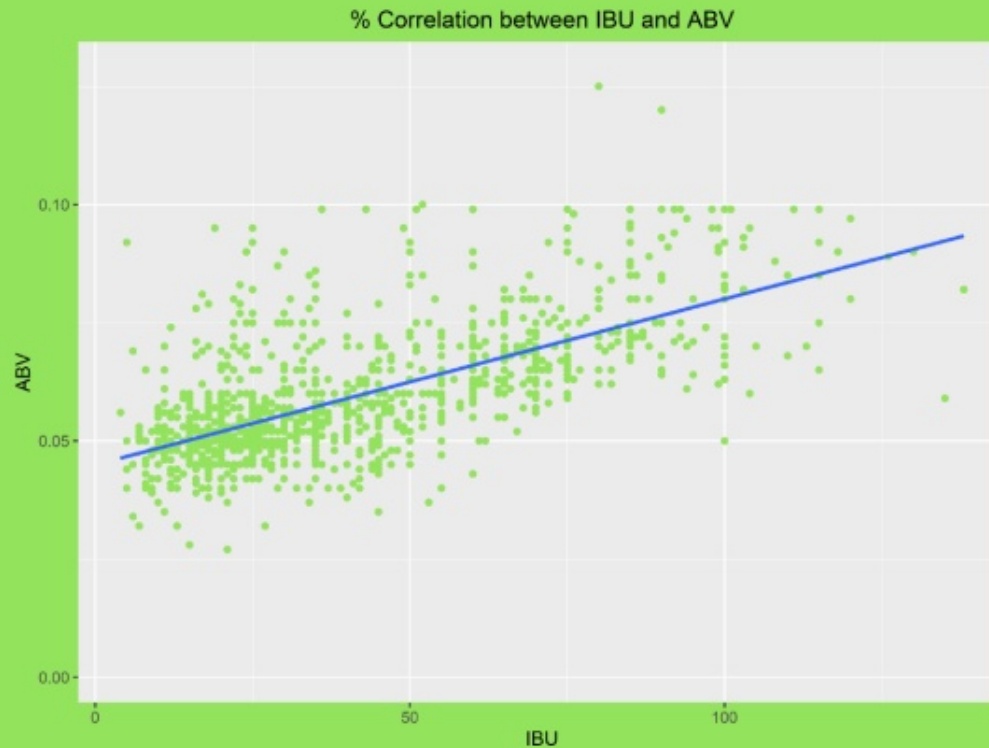
# Craft Beers & Breweries



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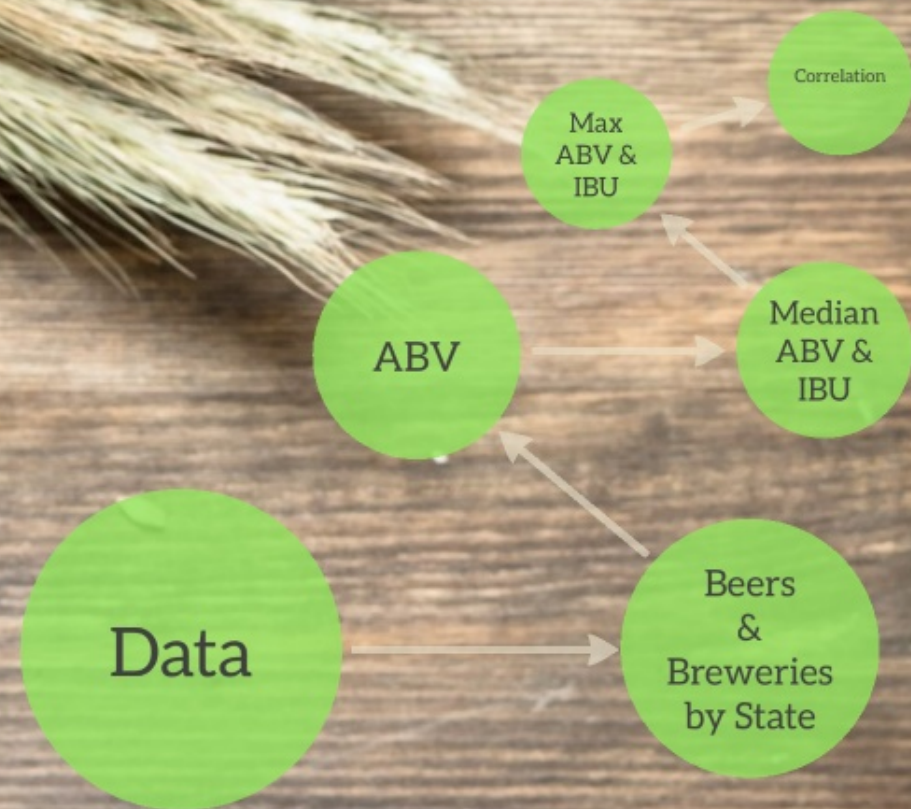
# Correlation



- The scatter plot does reflect a direct correlation between IBU and ABV.
- 45% of the variation in ABV can be explained by IBU.



# Craft Beers & Breweries



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