Hot Air/Cool Beer

J. Wilson



"A fine beer can be judged with only one sip, but it's better to be thoroughly sure."

-Czech proverb



About Hot Air Brewing

Founded by Katie Davidson and Andy Rullestad, Hot Air is a third space where community members and their families can come after work or on the weekends to relax, try the latest inhouse beer, and just be.

Hot Air opened to the public on Feb. 26, 2021, with brewer J. Wilson making a wide assortment of both kinds of beer: high falutin and low falutin. Hot Air offers a range of beers from German, British, and Belgian brewing traditions, with everything in between rotating frequently.

@hotairbrewing #hotaircoolbeer



Who is J.?

- 25+ years of award-winning brewing experience
- BJCP certified beer judge
- 2012 Beer Drinker of the Year
- Industry experience includes sales, lobbying, brewing, writing, event planning, education, and marketing
- Testified before Senate subcommittee on the proposed AB-InBev purchase of SABMiller
- Created iBEST educational conference and trade show, as well as the first DOLapproved apprenticeship program for professional brewing
- Along with many other publications, and internet and TV appearances, I'm mentioned in *Beer for Dummies*, by Marty Nachel

















INGREDIENTS

- Malt
- Hops
- Yeast
- Water



MALT

- The primary grain in the production of beer is malted barley.
- Malting is the process of steeping, germinating, and drying barley for use in beer or distilled spirits, and today is usually done by a maltster rather than inhouse at a brewery.
- Malt can be pale, caramel, or dark in color to provide different flavor, color, and other characteristics in the finished beer.
- The brewer mashes the malted barley to convert starches into fermentable sugars (which the yeast will then convert to alcohol)



HOPS

- Hops provide flavor, aroma, and bitterness to beer.
- They can also act as a preservative, but most hop-forward beers are best drunk fresh.

Generally speaking, hops from these regions carry the following characteristics:

England: grassy, woody, earthy

Continental Europe (noble): spicy, floral,

herbal

Pacific Northwest: (USA) pine, citrus

Australia/New Zealand: tropical, fruity



WATER

- Not that sexy, but terribly important, due to mineral content (or lack thereof) and water contamination issues
- 90% of beer
- Often the most truly "local" ingredient
- Certain beer styles emerged due to the local water: Munich, Dublin, Pilsen, Burton-Upon-Trent, etc.



YEAST

Ale

- Ferments warmer (68-72F)
- Ferments quickly
- More character (fruity, spicy, etc)

Lager

- Ferments cooler (55-65F)
- Ferments slower
- "Lager"="to store" so stored cold for several weeks
- Clean



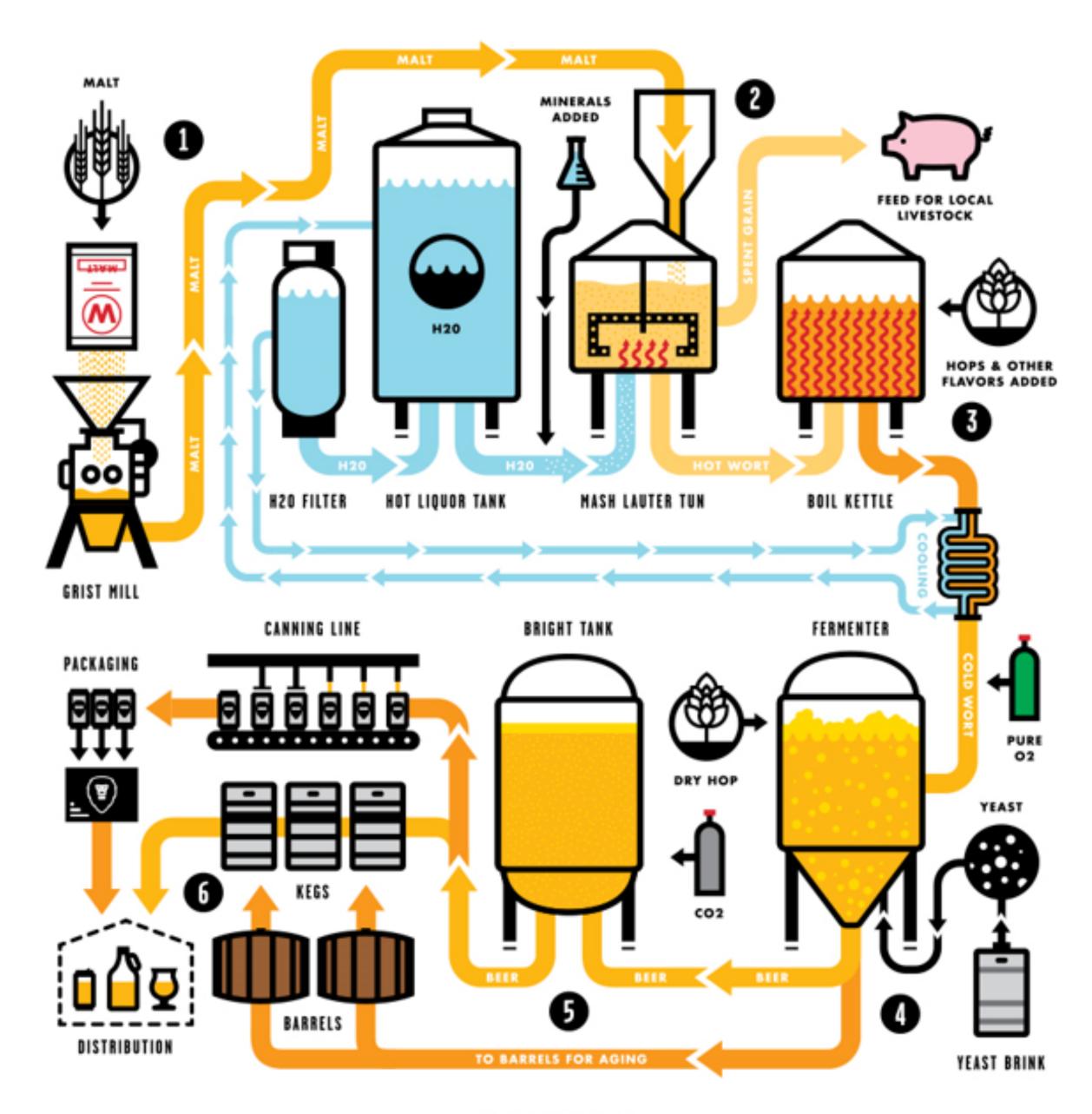
OTHER

- Time
- Wood
- Fruit
- Coffee
- Other grains
- Spices
- Bacteria
- Cacao nibs
- Honey (and other alt-sugar sources)
- Smoke
- And much, much more!



How to Make Beer

- Malting
- Mashing
- Lauter/Sparge
- Boil
- Ferment
- Condition
- Packaging







Sensory Analysis

There's a difference between TASTING beer and DRINKING beer.

Tonight, we'll be TASTING in order to explore the sight, aroma, flavor, mouthfeel, and more of a variety of beer styles.

Image credit: Tasting Beer, by Randy Mosher

Deconstructing a Beer



Aroma: Derived from ingredients such as malt and hops, but modified and augmented by yeast.

Head: From the medium-length proteins present in malt and adjunct grains such as wheat, oats, and rye. Affected by mashing, and possibly by filtration.

Color: Primarily from kilning of malts chosen for the brew, but affected by mashing and boiling specifics, and even to some degree by fermentation and filtration.

Carbonation: Carbon dioxide (CO₂) gas, a byproduct of fermentation by yeast.

Body and Mouthfeel: Proteins from malts, affected by the brewing, fermentation, and filtering procedures; sweetness from malts, brewhouse decisions, and fermentation.

Flavor: Malt, hops, and brewing water, all affected by many aspects of the brewing process.

Alcohol: More fermentable material means more alcohol, along with everything else.









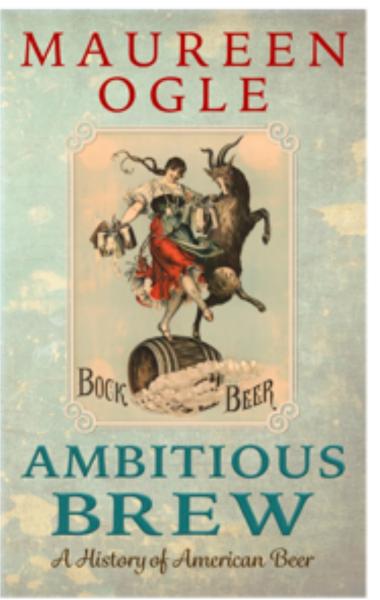


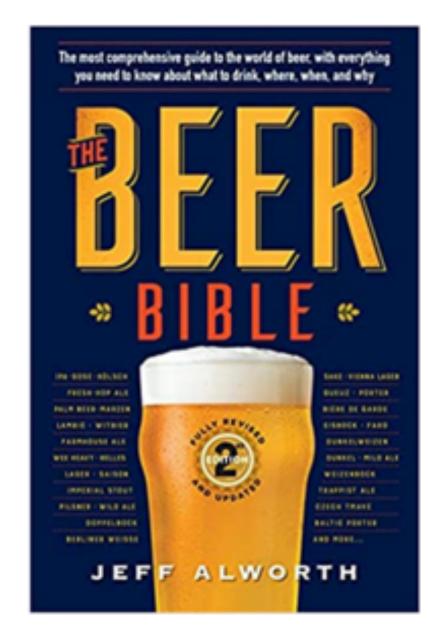


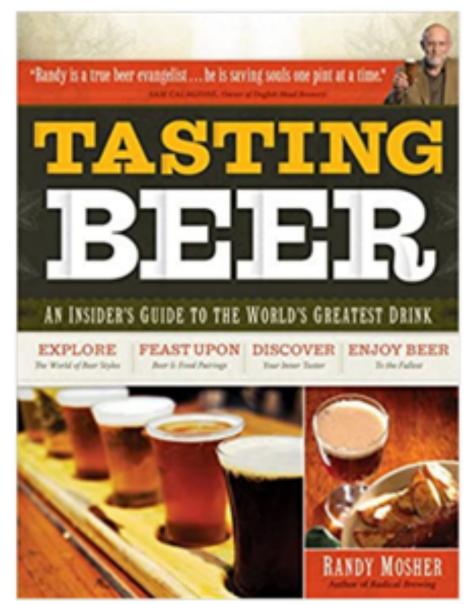
Next Steps for Learning

- Books
- Apps
- BJCP
- Tasting
- And more!







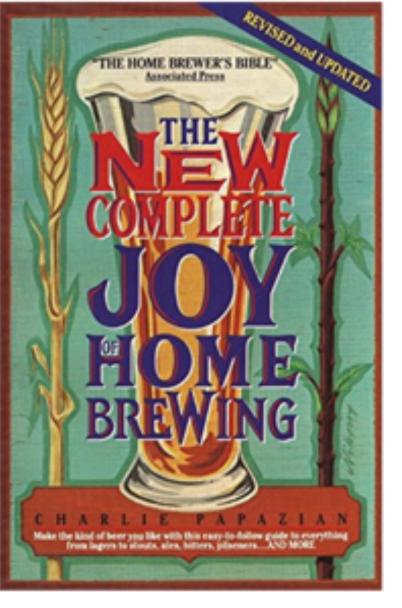


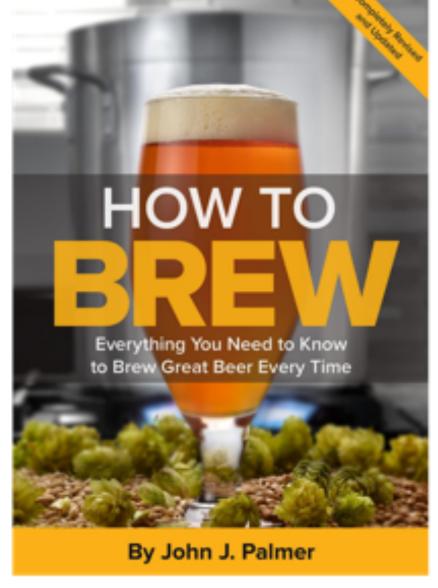


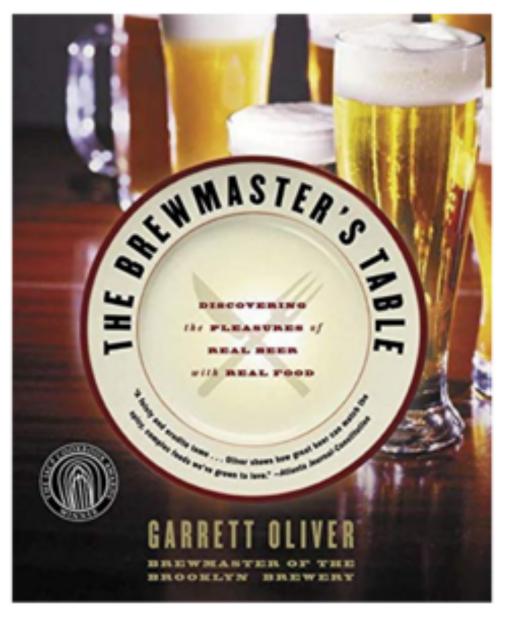


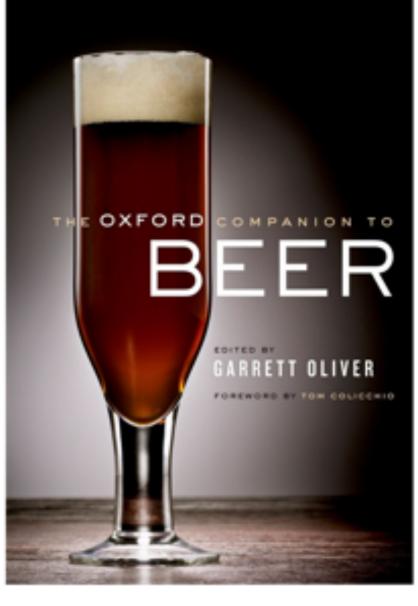












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Any Questions?



