

ACBrewingCalculator

Avery Norris and Cody Leytham

Our Project

- ACBrewingCalculator is a Chrome Extension that provides easy, free access to calculators for several aspects of brewing.
- Released under GPL 3.0
- Github: https://github.com/averyscottnorris/ACBrewingCalculator
 - Bug tracker: <u>ACBrewBug@hotmail.com</u>
 - Dev Contact: avnorris@pdx.edu and cleytham@pdx.edu

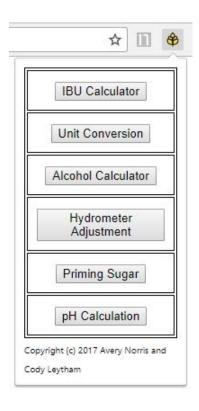
What does it do?

- Basic brewing calculations:
 - Bitterness unit calculations
 - Unit conversions: metric to imperial and vice versa
 - Alcohol calculator based on starting and final gravity (level of sugar)
 - Hydrometer adjustment for temperature
 - Priming sugar needed for carbonation
 - o pH adjustment for mash

How does it work?

- Install as a Chrome extension
- Click on icon to open drop-down menu
- Choose a calculator and it will open it in a new page





Why did we choose this project?

- We both enjoy beer and brewing
- Wanted to try out a Chrome extension
- Free, super-easy access alternatives are sparse

What difficulties did we face?

- Efficiently collaborating as a team
 - Dealing with multiple people pushing to git simultaneously
- Working within the confines of Chrome
 - No inline Javascript
 - Must all be in separate .js file
 - Fonts not correctly displaying
 - Finding reliable information (formulas)
 - Lots of digging through reference books and old blogs

What did we learn?

We had to relearn some things and then learn some new things

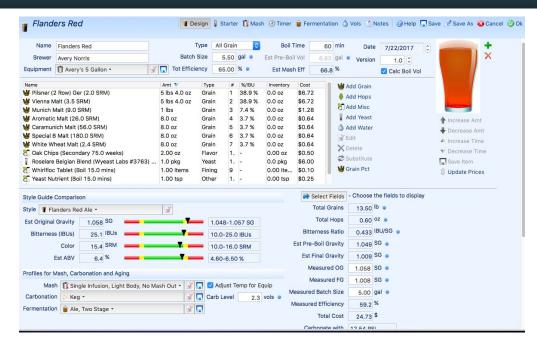
- Relearn
 - HMTL
 - o CSS
- Learn
 - Javascript
 - How to make a chrome extension
 - How work within the limitations of the extension
 - GIT functionality

The Competition

- Paid Options
 - o BeerSmith
 - BrewBot
- Free Options
 - o Brewer's Friend
 - Calculate by hand

BeerSmith

- Desktop application
 - Windows or Mac
- Pros
 - TONS of functionality
 - No internet required to use
 - Can manage recipes and inventory as well as calculations
- Cons
 - Complicated to use at first
 - Costs money (\$27.95)



Brewbot

- Mobile app for iPhone
- Pros
 - Mobile app is easy to access and use
 - Works without internet
 - Reference materials as well as calculations
- Cons
 - Less functionality than some web-based calculators
 - Costs money (\$1.99)



Brewer's Friend

- Web-based brewing calculator
- Pros
 - Free
 - Lots of functionality
- Cons
 - Requires internet access



Join Brewer's Friend Today!



Recipe Builder save and share your recipes



Ready to Use Recipes brewing process step by step



Tools and Resources to help you brew your very best



Forum Access connect with fellow brewers

CREATE YOUR FREE ACCOUNT!

The Low-Tech Option

- Do all calculations by hand with the assistance of a calculator
 - Difficult to find equations
 - Labor-intensive and time consuming



Where may this project go?

- Just added ACBrewingCalculator to Google Chrome's web store
 - Allows for automatic updates, and easy installation for users
- Add additional functionality
 - Gravity calculation
 - Color estimation
 - Yeast starter cell count calculation
- Make it prettier
 - More CSS

References and Borrowed Images

- https://3.bp.blogspot.com/-7P6nvEaMP-4/URZcwWMRY1I/AAAAAAAAqw/Nq_1WcJbK-g/s1600/calculations.JPG
- https://itunes.apple.com/us/app/brewbot/id542237024?mt=8