

## Problem

Designing a new recipe is a complex process that can be very difficult and confusing for even experienced brewers.

## Prototype

We designed recipe building system that will guide new brewers through the process but still allow experienced brewers to build custom recipes. The recipe builder will provide visual feedback to warn users if they are doing something that is not consistent with their style of beer. We also provided the users with an easy way to share and receive feedback on their recipes from the other home brewers.

The stats window will give the user feedback on their recipe. Values that are out of range for the beer style will be highlighted in red. Values in green show the user that they are consistent with this style of beer.

Recipes  
Find  
Brew Kits

### Recipe Builder

Stats: American IPA  
OG: 1.076 FG: 1.015  
ABV: 7.2% IBU: 75.2  
Color: 23.2

Malts:

Name	Type	Amount	Moisture	Water Addition	Total %	Color (SRM)
88% Briess - 2 Row Brewers Malt	Grain	11,000 lb	✓	Normal	80,000	10.0
7% Caramell/Crystal Malt - 10L	Grain	3,000 lb	✓	Normal	75,000	10.0
3% Briess - Munich Malt 10L	Grain	11,000 cc	✓	Normal	75,000	10.0
2% Caramell/Crystal Malt - 40L	Grain	4,000 cc	✓	Normal	74,000	40.0

Hops:

Name	Alpha %	Amount	Form	Use	Time
43.2 IBU Nugget	11.000	1,000 cc	Pellet	Boil	60,000 min
30.8 IBU Centennial	10.500	1,000 cc	Pellet	Boil	10,000 min
16.8 IBU Simcoe	11.000	1,000 cc	Pellet	Boil	5,000 min
16.8 IBU Amarillo	9.500	1,000 cc	Pellet	Boil	8,000 min

Yeast:

Name	Laboratory	Product ID	Type	Scan	Amount
WLP001 - California Ale Yeast	White Labs	WLP	Ale	Liquid	2.307 pkg

Generate Brewing Schedule

Search

Load

Feedback

Users can search for or load existing recipes

Feedback button allows user to easily post their recipe on our forum to have others look it over

Users add their ingredients to the three categories. Ingredient parameters (ex: alpha % for hops) are automatically loaded when a user types the name.

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### Brewing Schedule

Stats: American IPA  
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Step 1. - - - - -  
Step 2. - - - - -  
Step 3. - - - - -

↓

Search

Load

Feedback

The user is presented with a custom step by step brewing instruction list based on their recipe