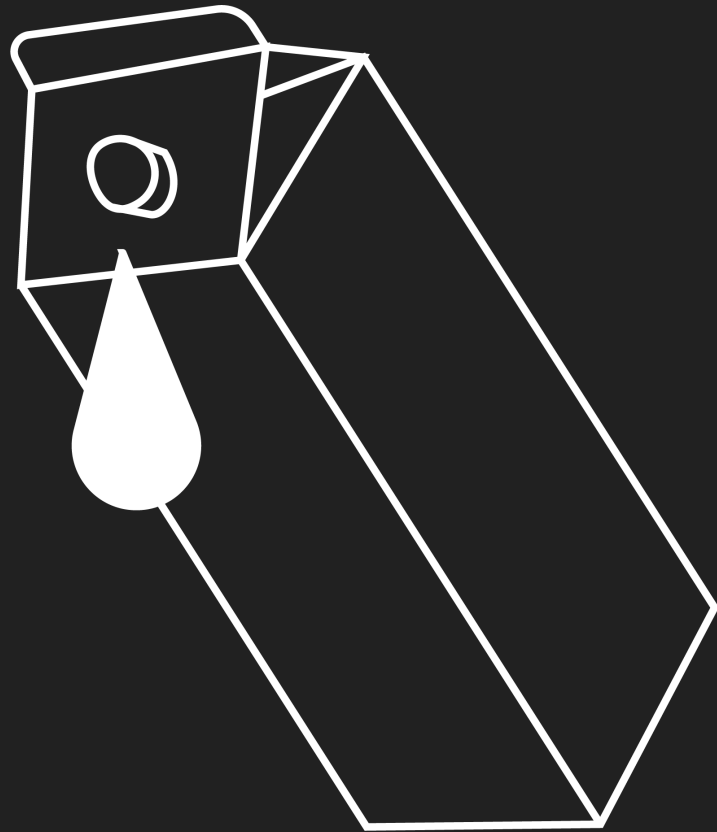


GOT MILK?

Ryan Tavcar





describe

Got Milk? is a terminal application that searches through ingredients provided by the user input and returns a list of recipes that can be created with the corresponding ingredients.

Got Milk? Utilises colorize gem and json



features

SEARCH RECIPES:

- Search algorithm that returns recipes with matching ingredients to user input.

SAVE RECIPES:

- The ability to save recipes into a text file.

MEASUREMENT CONVERSION:

- A tool to convert common cooking measurements



classes

Menu class

- Handles all menu options

Recipe class

- Grab and parses json data
- Searches through recipes
- Saves recipe to text file
- Deletes saved recipes in text file
- Returns recipe hash values

Convert class

- Converts multitude of different measurements

Help module

- Used within the Menu class
- Outputs a strings regarding how to use the program.



ui / ux

Search recipe

GOT MILK?

- [1] Start
- [2] Measurement Converter
- [3] How to Use

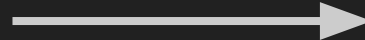
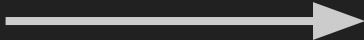
What Ingredients do you have?

List of potential ingredients:

- Chicken
- Beef
- Lamb
- Fish
- Self-raising Flour
- All-purpose Flour
- Baking powder
- Salt
- Thyme
- Rosemary
- Chili powder
- Garlic
- Soy sauce
- Vinegar
- Butter
- Broccoli
- Carrots
- Lettuce
- Apples
- Bacon
- White wine
- Brown sugar
- Bananas
- Eggs
- Lemons
- chicken/beef/vegetable stock
- Milk
- Rice
- Vanilla extract

- [1] Mini German Pancakes
- [2] Vanilla Cake
- [3] Omelette

Milk Eggs Flour Salt Vanilla Butter





ui / ux

Search recipe

MINI GERMAN PANCAKES

Description: These are so tasty and fun!

Ingredients:

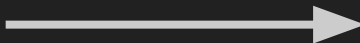
- 1 cup milk
- 6 eggs
- 1 cup flour
- 1/2 tsp salt
- 1 tsp vanilla
- 1/4 cup butter, melted

Directions:

- Preheat oven to 400 degrees F. Blend first five ingredients (milk thru vanilla) in a blender. Be careful to see that any flour clumps get well-blended.
- Blend in butter a little at a time in order to temper the eggs.
- Grease muffin tins well and distribute batter evenly between 24 tins. Bake for 15 minutes, or until puffy and golden on top.

What would you like to do?

- [1] Save recipe(s)
- [2] See Conversion tool
- [3] Back to main menu





ui / ux

download recipe

```
def download_recipe()
  @targeted_recipe.each do |k,v|
    File.open("recipes.txt", 'a') do |f|
      f.puts *k
      f.puts "\n"
      f.puts *v
      f.puts "\n"
    end
  end
end
```



```
*recipes.txt - Notepad
File Edit Format View Help

Mini German Pancakes
  description: These pancakes are awesome!
  ingredients:
    butter
    flour
    eggs
    milk
  directions:
    - Preheat oven to 400 degrees F. Blend
      first five ingredients (milk thru
      vanilla) in a blender.
    - Be careful to see that any flour
      clumps get well-blended.
    - Blend in butter a little at a time in
      order to temper the eggs.
    - Grease muffin tins well and distribute
      batter evenly between 24 tins. Bake
      for 15 minutes, or until puffy
      and golden on top.

Vanilla Cake
  description: This cake is awesome!
  ingredients
    flour
    butter
    eggs
    milk
    vanilla
  directions
    - Preheat oven to 400 degrees F. Blend
      first five ingredients (milk thru
      vanilla) in a blender.
    - Be careful to see that any flour
      clumps get well-blended.
    - Blend in butter a little at a time in
      order to temper the eggs.
    - Grease muffin tins well and distribute
      batter evenly between 24 tins. Bake
      for 15 minutes, or until puffy and
      golden on top.

Ln 33, Col 139    100%    Windows (CRLF)    UTF-8
```



ui / ux

conversion tool

Via main menu

GOT MILK?

- [1] Start
- [2] Measurement Converter
- [3] How to Use

Via recipe menu

What would you like to do?

- [1] Download recipe
- [2] See Conversion tool
- [3] Back to main menu



ui / ux

conversion tool

What do you want to convert?

- [lbs] to kg
- [oz] to grams
- [gallon] to litre
- [quart] to ml
- [kg] to lbs
- [grams] to ounce
- [ml] to quartz
- [litre] to gallon

- [end] back to main menu

lbs

Converting lbs to kg

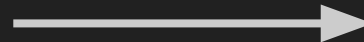
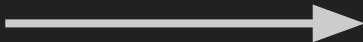
5 lbs

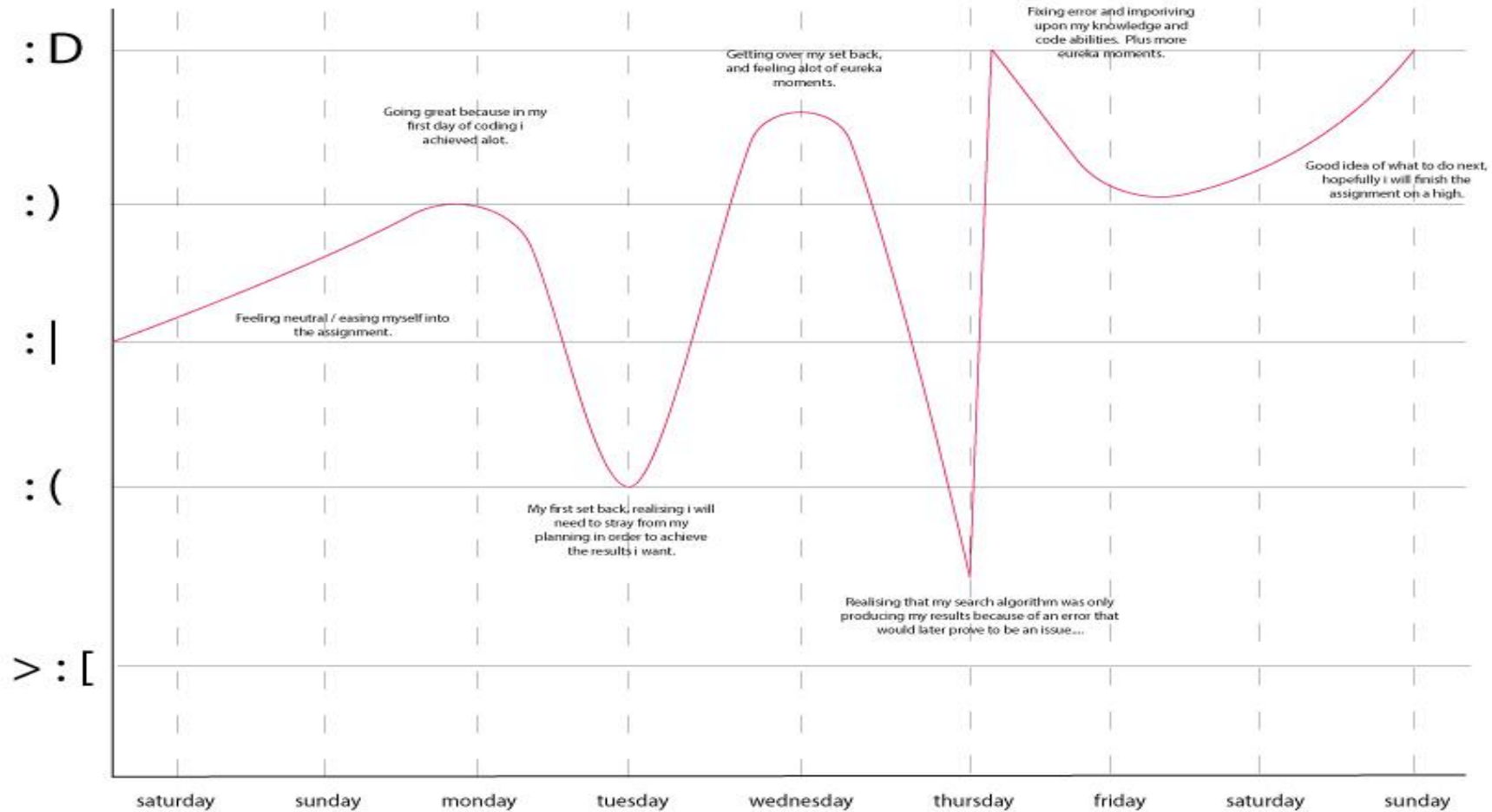
2.27 kg

What do you want to convert?

- [lbs] to kg
- [oz] to grams
- [gallon] to litre
- [quart] to ml
- [kg] to lbs
- [grams] to ounce
- [ml] to quartz
- [litre] to gallon

- [end] back to main menu







difficulties

Search algorithm

```
def search_option1(user_input)
  # Returns recipes with the given @user_input value
  json_recipes.each do |recipe_names, key|
    if key["ingredients"].include?(user_input)
      @targeted_recipe[recipe_names] = key
      @recipe_ingredients.push(key["ingredients"].sort)
    end

    @recipe[recipe_names] = key
    #@recipe_key.push(key)
    @recipe_name.push(recipe_names)
  elsif key["ingredients"] == user_input
    @targeted_recipe[recipe_names] = keys
  else
    puts "That's not an ingredient."
  end
end

p @recipe_ingredients
#pp @recipe_key
puts @recipe_name
@recipe
end
```

Error - always returns
"That's not an ingredient."

```
def search(user_input)
  # Returns recipes with the given @user_input value
  json_recipes.each do |recipe_names, key|
    if key["ingredients"].include?(user_input)
      @targeted_recipe[recipe_names] = key
      @recipe_list.push(recipe_names)
    elsif key["ingredients"] == user_input
      @targeted_recipe[recipe_names] = keys
    end
  end
  @recipe_list
end
```

Current code - returns
desired results however it is
not perfect and difficult to use
the returning values.

```
def search_option2(user_input)
  # Returns recipes with the given @user_input value
  self.get_json
  @json_recipes.each do |recipe_names, key|
    @recipe_ingredients.push(key["ingredients"].sort)
    @recipe_key.push(key)
    @recipe_name.push(recipe_names)
  end

  test1 = user_input.split(' ').sort
  p @recipe_ingredients
  puts ""
  pp @recipe_key
  puts ""
  pp @recipe_name

  if @recipe_ingredients.include?(test1) # WORKING
    puts "(:):(:):(:):)"
  end
end
```

Figuring out my next step
and improving - restructured
JSON object
& store json key/values into
separate variables.



favourites

search algorithm and json

```
{
  "recipes": [{
    "name": "Chicken Soup",
    "description": "This chicken soup is awesome!",
    "ingredients": ["chicken", "stock", "carrots"],
    "directions": [
      "- Preheat oven to 400 degrees F. Blend first five ingredients (milk thru vanilla) in a blender.",
      "- Be careful to see that any flour clumps get well-blended.",
      "- Blend in butter a little at a time in order to temper the eggs.",
      "- Grease muffin tins well and distribute batter evenly between 24 tins  Bake for 15 minutes, or until puffy and golden on top."
    ]
  },
  {
    "name": "Vanilla Cake",
    "description": "This cake soup is awesome!",
    "ingredients": ["flour", "butter", "eggs", "milk", "vanilla"],
    "directions": [
      "- Preheat oven to 400 degrees F. Blend first five ingredients (milk thru vanilla) in a blender.",
      "- Be careful to see that any flour clumps get well-blended.",
      "- Blend in butter a little at a time in order to temper the eggs.",
      "- Grease muffin tins well and distribute batter evenly between 24 tins  Bake for 15 minutes, or until puffy and golden on top."
    ]
  },
  {
    "name": "Mini German Pancakes",
    "description": "These pancakes are awesome!",
    "ingredients": ["butter", "flour", "eggs", "milk"],
    "directions": [
      "- Preheat oven to 400 degrees F. Blend first five ingredients (milk thru vanilla) in a blender.",
      "- Be careful to see that any flour clumps get well-blended.",
      "- Blend in butter a little at a time in order to temper the eggs.",
      "- Grease muffin tins well and distribute batter evenly between 24 tins  Bake for 15 minutes, or until puffy and golden on top."
    ]
  }
]
}
```



favourites

more confidence with methods

```
def search(user_input)
  # Returns recipes with the given @user_input value
  puts File.foreach("ingredient_list.txt") { |line| puts line }
  puts "What Ingredients do you have?"<div data-bbox="570 325 900 431" data-label="Text">

```
def get_json
 recipe_json = File.read('./recipes.json')
 @json_recipes = JSON.parse(recipe_json)
end
```


```

```
def search(user_input)
  # Returns recipes with the given @user_input value
  self.get_json
  @json_recipes.each do |recipe_names, key|
    if key["ingredients"].include?(user_input)
      @targeted_recipe[recipe_names] = key
      @recipe_list.push(recipe_names)
    else puts "That's not an ingredient."
      self.search
    end
  end

  @targeted_recipe
end
```



favourites

eureka moments

- Everything in Ruby is an object.
- Everything you need to create your terminal app is in the Ruby docs.
- The Ruby docs are your best friend.
- Ah! So that's how i use `attr_accessor`.
- Have your methods do ONE thing!

