

Byte Sized Recipes

A Programmers Cookbook

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Background

I always found cooking recipes confusing. They are often filled with unnecessary background information, and the instructions are harder to follow than they should be. That's why I typically freestyle when I cook. Then, one day, I was talking with my partner, Angela, about an idea for a coding cookbook. The concept was to present recipes as code—they are, after all, a set of instructions, just like code. The code format allows you to see the logical relationship between ingredients and cooking utensils much more clearly. After discussing it at length, I decided to pursue the idea. I developed a grammar for my new language and wrote a custom VS Code extension to provide proper syntax highlighting. Then, I used AI to translate some of my favorite recipes into my .food programming language. The result is this book. It's a first attempt, and feedback is appreciated.

How to use this book

Every recipe has three main parts: declarations, functions, and the `cook()` function. The declarations list the ingredients and their quantities, as well as the necessary cooking utensils. Every recipe begins with the `cook()` function, which is the main function of the language—always start there! Due to space constraints, I had to break up some of the recipes into separate functions. When following the `cook()` function, you might see something like this:

```
fn cook() {  
  
    prepareIngredients()  
  
    return "Food"  
}
```

Here, `prepareIngredients()` indicates that you should execute all the steps within the `prepareIngredients()` function block before continuing. Green text, such as `// Preparation`, represents a comment and isn't an instruction—it's simply there to offer hints and organize the recipes. I've tried to keep things as simple as possible, but if you find the syntax confusing, you can always ask a programmer if you aren't one yourself, or simply consult an AI.


```
41
42  fn cook() {
43      prepareIngredients()
44
45      // Cooking
46      roasting_pot.heat("medium")
47      roasting_pot.add(oil)
48      roasting_pot.add(pork_tenderloin)
49      roasting_pot.brown("10 minutes")
50
51      roasting_pot.add(onion)
52      roasting_pot.add(garlic)
53      roasting_pot.add(apple)
54      roasting_pot.add(red_bell_pepper)
55      roasting_pot.add(pineapple)
56      roasting_pot.mix()
57
58      roasting_pot.cover()
59      roasting_pot.braise("5 minutes on low heat")
60
61      roasting_pot.add(water)
62      roasting_pot.add(curry_sauce_mix)
63      roasting_pot.stir()
64      roasting_pot.boil()
65
66      wait("few minutes without heat to let flavors meld")
67
68      return "Curry Meat"
69  }
```



```
32
33  fn cook() {
34      prepareIngredients()
35
36      // Cooking
37      pot.heat("medium-high")
38      pot.add(goulash_meat)
39      pot.brown("until seared")
40
41      pot.add(onion)
42      pot.add(garlic)
43      pot.saute("until translucent")
44
45      pot.add(bell_pepper)
46      pot.add(tomatoes)
47      pot.add(potatoes)
48      pot.add(carrots)
49      pot.add(celery)
50
51      pot.add(salt)
52      pot.add(caraway_seeds)
53      pot.add(paprika)
54
55      pot.add(water, "to cover ingredients")
56      pot.boil()
57      pot.simmer("1-1.5 hours until meat is tender")
58
59      return "Goulash Soup"
60  }
```

```
1  //lasagna.food
2
3  // Ingredients
4  ground_meat = new GroundMeat("500g")
5  peas = new Peas("1 small can")
6  tomatoes = new Tomato("1 large can")
7  onion_meat = new Onion("1 medium")
8  garlic = new Garlic("1 clove")
9  italian_herbs = new ItalianHerbs("to taste")
10 tomato_paste = new TomatoPaste("to taste")
11 cream_meat = new Cream("some")
12 butter = new Butter("40g")
13 ham = new Ham("50g, cooked")
14 onion_bechamel = new Onion("1 small")
15 flour = new Flour("for roux")
16 meat_broth = new MeatBroth("250ml")
17 milk = new Milk("250ml")
18 salt = new Salt("to taste")
19 pepper = new BlackPepper("to taste")
20 parmesan = new Parmesan("grated")
21 lasagna_noodles = new LasagnaNoodles("1 package")
22 grated_cheese = new GratedCheese("for topping")
23
24 // Utensils
25 pot = new Pot()
26 pan = new Pan()
27 saucepan = new Saucepan()
28 knife = new Knife()
29 baking_dish = new BakingDish()
30 oven = new Oven()
31
32 fn prepareMeatSauce() {
33     onion_meat = knife.chop(onion_meat)
34     garlic = knife.mince(garlic)
35
36     pan.heat("medium")
37     pan.add(onion_meat)
38     pan.brown("until golden")
39     pan.add(ground_meat)
40     pan.brown("until crumbly")
41     pan.add(garlic)
42     pan.add(tomatoes)
43     pan.add(peas)
44     pan.boil()
45     pan.add(italian_herbs)
46     pan.add(tomato_paste)
47     pan.add(cream_meat)
48     pan.simmer("to blend flavors")
49 }
```

```
50  fn prepareBechamelSauce() {
51      ham = knife.chop(ham)
52      onion_bechamel = knife.chop(onion_bechamel)
53
54      saucepan.heat("medium")
55      saucepan.add(butter)
56      saucepan.add(ham)
57      saucepan.add(onion_bechamel)
58      saucepan.fry("until golden")
59      saucepan.add(flour)
60      saucepan.stir("to make roux")
61      saucepan.add(meat_broth)
62      saucepan.add(milk)
63      saucepan.stir("until smooth")
64      saucepan.add(salt)
65      saucepan.add(pepper)
66      saucepan.add(parmesan)
67      saucepan.simmer("5 minutes")
68  }
69
70  fn cook() {
71      // Cook lasagna noodles
72      pot.boil("salted water")
73      pot.add(lasagna_noodles)
74      pot.cook("according to package directions")
75      lasagna_noodles = pot.drain()
76
77      prepareMeatSauce()
78      prepareBechamelSauce()
79
80      // Assembly
81      baking_dish.grease()
82      baking_dish.layer(pan, "meat sauce")
83      baking_dish.layer(lasagna_noodles)
84      baking_dish.layer(saucepan, "béchamel sauce")
85      baking_dish.layer(pan, "meat sauce")
86      baking_dish.layer(lasagna_noodles)
87      baking_dish.layer(saucepan, "béchamel sauce")
88      baking_dish.top(grated_cheese)
89
90      // Baking
91      oven.preheat("200C")
92      oven.bake(baking_dish, "25 minutes")
93
94      return "Lasagna"
95  }
```



```
38
39  fn prepareFilling() {
40      // Prepare filling
41      knife.slice(cooked_ham, "strips")
42      knife.divide(broccoli, "florets")
43      pot.boil("salt water")
44      pot.add(broccoli)
45      pot.cook("1 minute")
46      drain(pot)
47      rinse(broccoli, "cold water")
48
49      knife.slice(red_bell_pepper, "strips")
50      knife.dice(mozzarella)
51
52      filling_bowl = new Bowl()
53      filling_bowl.add(broccoli)
54      filling_bowl.add(red_bell_pepper)
55      filling_bowl.add(mozzarella)
56      filling_bowl.add(salt_filling)
57      filling_bowl.add(pepper)
58      filling_bowl.mix()
59  }
60
61  fn cook() {
62      prepareDough()
63      prepareFilling()
64
65      // Assembly
66      rolling_pin.roll(dough_portions, "20cm rounds on flour")
67      fill(dough_portions, filling_bowl, "half of each round")
68      knife.fold(dough_portions, "other half over")
69      knife.press(dough_portions, "edges firmly")
70
71      // Baking
72      baking_sheet.line("parchment paper")
73      baking_sheet.add(dough_portions)
74      oven.preheat("250C")
75      oven.bake(baking_sheet, "15 minutes until golden brown")
76
77      return "Pizza Pockets - serve with tzatziki"
78  }
```



```
35
36 fn prepareSauce() {
37     // Prepare topping sauce
38     sauce_bowl = new Bowl()
39     sauce_bowl.add(tomato_cans)
40     sauce_bowl.add(tomato_paste)
41     sauce_bowl.add(garlic)
42     sauce_bowl.add(spices)
43     sauce_bowl.mix("into paste")
44 }
45
46 fn cook() {
47     prepareDough()
48     prepareSauce()
49
50     dough = mixing_bowl.get()
51     dough_portions = divide(dough, "4 portions")
52
53     // Assembly
54     rolled_dough = rolling_pin.roll(dough_portions,
                                     "thin circles")
55
56     baking_sheet.add(rolled_dough)
57     baking_sheet.spread(sauce_bowl)
58     baking_sheet.add(salami)
59     baking_sheet.add(anchovies)
60
61     // Baking
62     oven.preheat("200C")
63     oven.bake(baking_sheet, "15-20 minutes")
64
65     return "Pizza"
66 }
```



```
1  //polpetinen.food
2
3  // Ingredients
4  ground_beef = new GroundBeef("250g")
5  smoked_bacon = new SmokedBacon("125g")
6  garlic = new Garlic("1 clove")
7  parsley = new Parsley("fresh, chopped")
8  eggs = new Eggs("2")
9  emmental = new Emmental("60g, grated")
10 bread_roll = new BreadRoll("1, soaked")
11 salt = new Salt("to taste")
12 pepper = new BlackPepper("to taste")
13 mixed_spices = new MixedSpices("oregano, to taste")
14 oil = new Oil("2 tbsp")
15 onions = new Onion("2 medium")
16 tomatoes = new Tomato("500g")
17 hot_broth = new Broth("250ml, hot")
18
19 // Utensils
20 mixing_bowl = new Bowl()
21 knife = new Knife()
22 pan = new Pan()
23 saucepan = new Saucepan()
24 sieve = new Sieve()
25
26 fn prepareTomatoSauce() {
27     // Prepare tomato sauce
28     onions = knife.chop(onions)
29     saucepan.heat("medium")
30     saucepan.add(oil)
31     saucepan.add(onions)
32     saucepan.brown("until golden")
33
34     saucepan.add(tomatoes)
35     saucepan.saute("until soft")
36     saucepan.add(hot_broth)
37     saucepan.simmer("until tender")
38
39     // Strain sauce
40     sieve.strain(saucepan)
41     season(saucepan, "salt, pepper, oregano")
42 }
```

```
43
44 fn prepareMeatballs() {
45     // Prepare meat mixture
46     garlic = knife.mince(garlic)
47     smoked_bacon = knife.chop(smoked_bacon, "fine")
48     soak(bread_roll, "milk")
49     squeeze_dry(bread_roll)
50
51     mixing_bowl.add(ground_beef)
52     mixing_bowl.add(smoked_bacon)
53     mixing_bowl.add(garlic)
54     mixing_bowl.add(parsley)
55     mixing_bowl.add(eggs)
56     mixing_bowl.add(emmental)
57     mixing_bowl.add(bread_roll)
58     mixing_bowl.add(salt)
59     mixing_bowl.add(pepper)
60     mixing_bowl.add(mixed_spices)
61     mixing_bowl.mix("until combined")
62
63     meatballs = mixing_bowl.form("small balls")
64
65     // Brown meatballs
66     pan.heat("medium")
67     pan.add(meatballs)
68     pan.brown("all sides")
69 }
70
71 fn cook() {
72     prepareMeatballs()
73     prepareTomatoSauce()
74
75     // Combine
76     saucepan.add(meatballs)
77     saucepan.simmer("until heated through")
78
79     return "Polpetinen"
80 }
```

