# **Cooklang: Hacking the Recipe Format**

The way we write recipes hasn't fundamentally changed in centuries. What if we could hack it?

• Alexey Dubovskoy, FOSDEM 2025, CC BY 4 •





### Why Cooking Shouldn't Start with a Scrolling Marathon

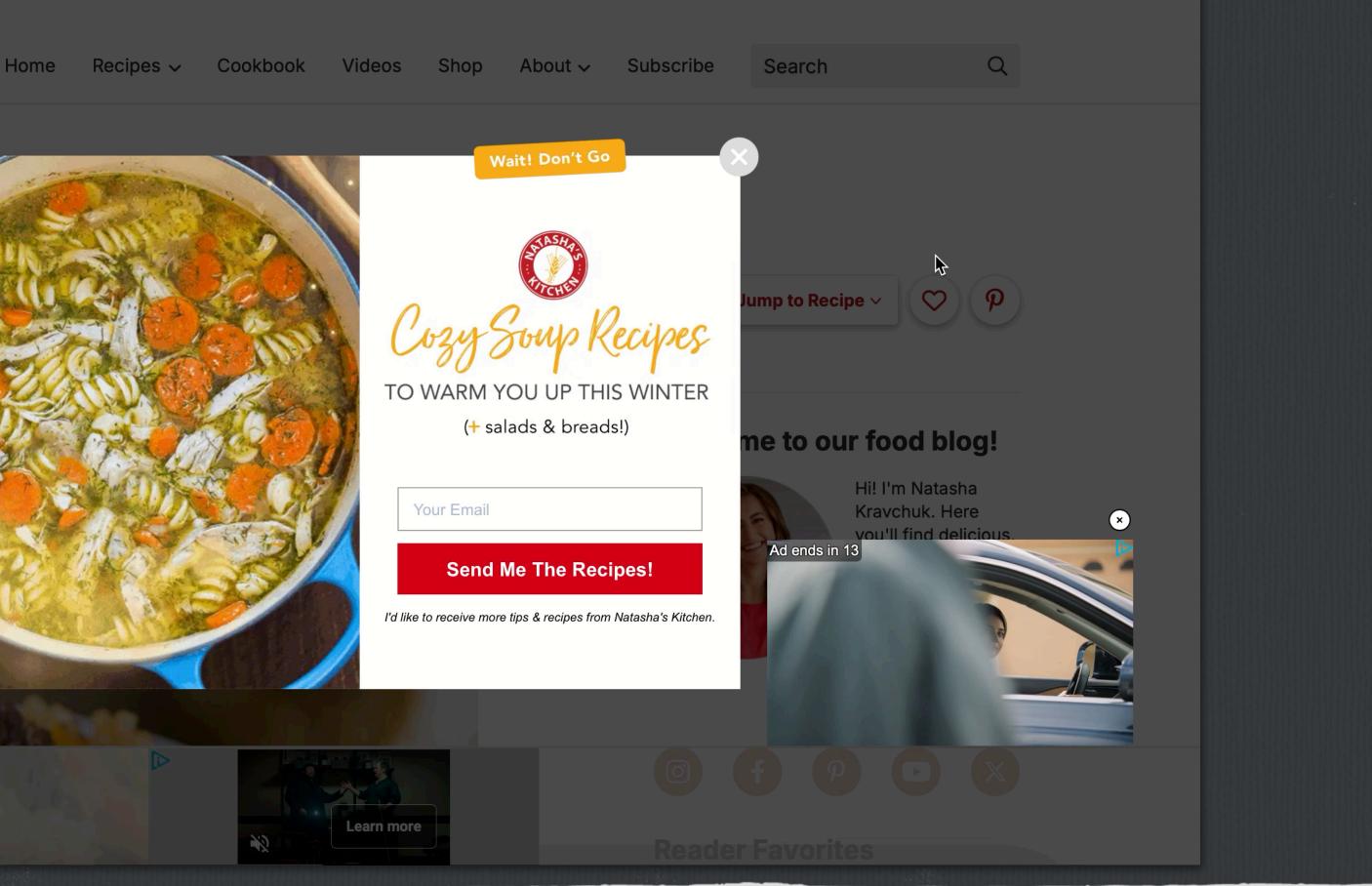


Home > Main Course > Beef

#### **Beef Plov**

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432





# Authentic "innovation"

#### Dishwasher salmon

Article Talk

From Wikipedia, the free encyclopedia

**Dishwasher salmon** is a fish dish made by a cooking technique where salmon is wrapped in aluminum foil and placed in a dishwasher for a full cycle. Dishwasher companies and Consumer Reports have identified potential issues, including inconsistent temperatures and the risk of food poisoning.

#### Safety concerns

Dishwasher companies and Consumer Reports have recommended against cooking fish with a dishwasher because dishwashers are not designed or tested for cooking, dishwashers do not have

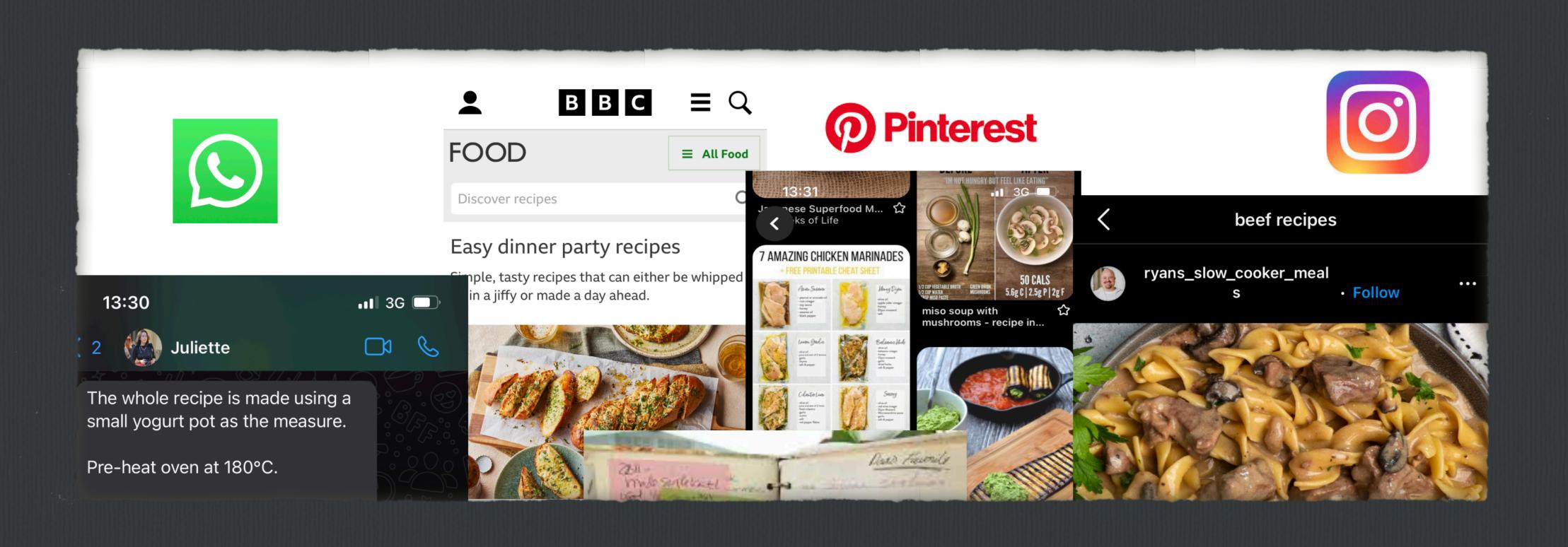
Read	View source	View history	Tools 🗸



Salmon fillets wrapped in aluminum foil and placed on a dishwasher rack



### The Recipe Black Hole: Why Sharing is Still a Mess





## The Personalisation Problem: Do I Really **Own My Recipes?**

- □ I don't own my recipes.
- □ Want to remove garlic? Too bad—no easy way to do it.
- ☐ Adjust proportions to suit my taste? That's a battle.
- **Even with apps like Paprika, adding a recipe is a pain:** 
  - **Copy-paste chaos.**
  - Mobile UI that feels like a maze.
  - □ What happens if the app shuts down?



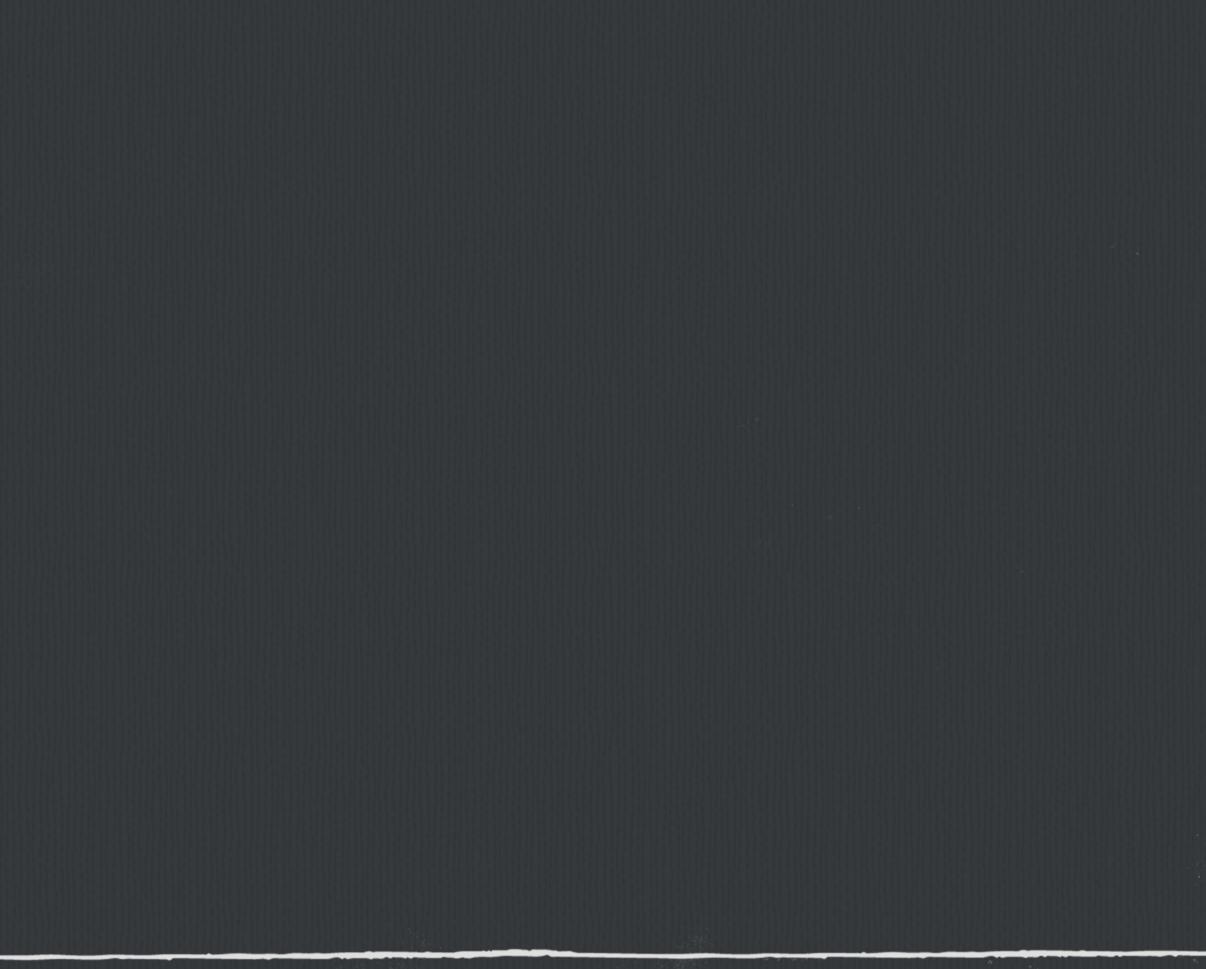
### The Recipe Paradox: Why Meal Planning Feels Harder Than Cooking???





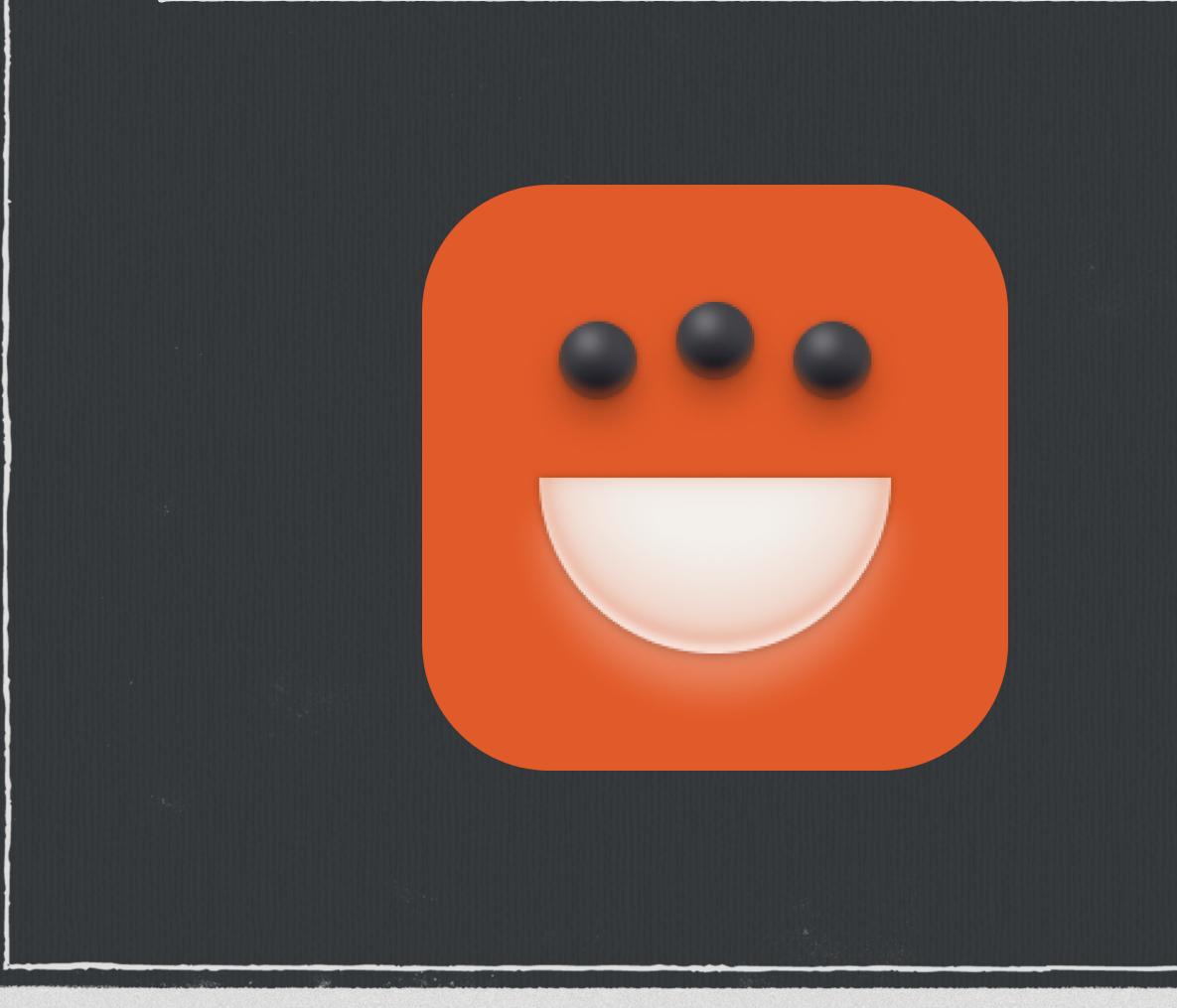
### The Great Wall of Culinary Chaos

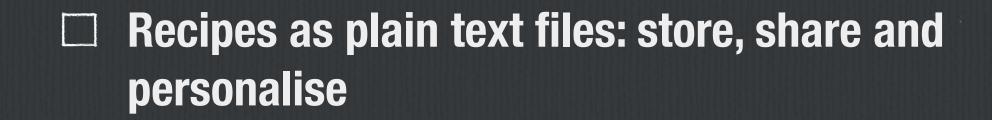
Problem with finding good recipes
 Problem with storing recipes
 Problem with sharing
 Problem with personalisation
 Problem with brain fuel





## The Surprisingly Modern Power of Plain Text





- Make computers work and save our brain fuel
- Small libraries what allow to reuse other's work



#### Easy Pancakes.cook — Recipes

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FOLDE	RS
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- Recipes
  - Baking
  - Breakfast
    - Soups
    - .metadata 19
    - Easy Pancakes.2.jpg
    - Easy Pancakes.cook
    - Easy Pancakes.jpg
    - French Breakfast.cook
    - French Breakfast.jpeg
    - Irish Breakfast.cook
    - Irish Breakfast.jpg
    - Mexican Style Burrito.cook
    - Mexican Style Burrito.jpeg
    - E Shakshuka.cook
    - Shakshuka.jpeg
    - Smoothie bowl.cook
    - Smoothie bowl.jpeg
  - Christmas Dinner
  - Components
  - config

@milk	<mark>{250</mark> %	sml}	and
Pour	into	a bo	wl a
in a	the b large outter	non	-sti
Pour	in 1		

Easy Pancakes.cook

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- away from the sides.
- minute,
- or until cooked through. 15

Line 18, Column 1

Crack the @eggs{3} into a blender, then add the @plain flour{125%g}, @sea salt{1%pinch}, and blitz until smooth.

and leave to stand for 15 minutes.

or a drizzle of **coil** if you want to be a bit healthier) ick **#frying pan{}** on a medium heat, then tilt the pan so the surface.

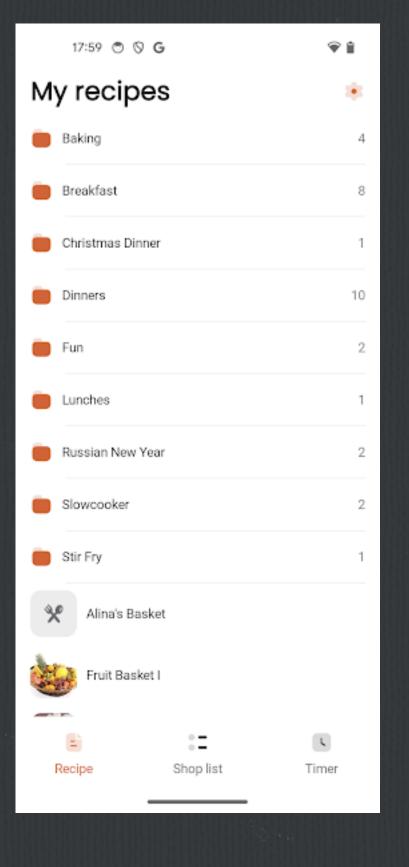
batter and tilt again, so that the batter spreads all over the base, then cook for 1 to 2 minutes, or until it starts to come

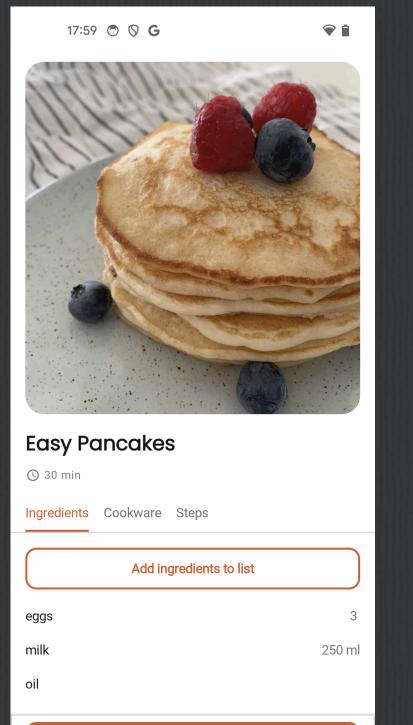
Once golden underneath, flip the pancake over and cook for 1 further

Serve straightaway with your favourite topping.



#### ...turn files into beautiful recipes





←

STEP 2



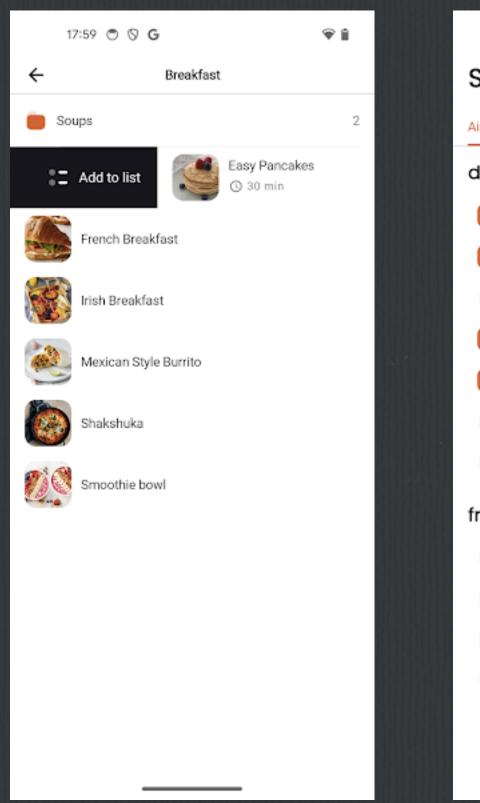
	Add ingredients to list	
S		3
(		250 ml
	Start cooking	

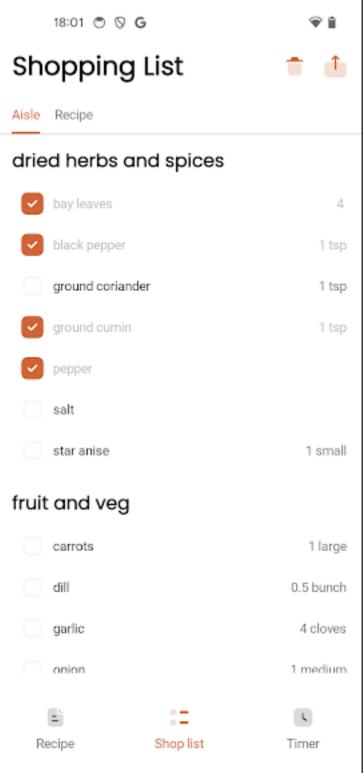


Pour into a bowl and leave to stand for 15 minutes.



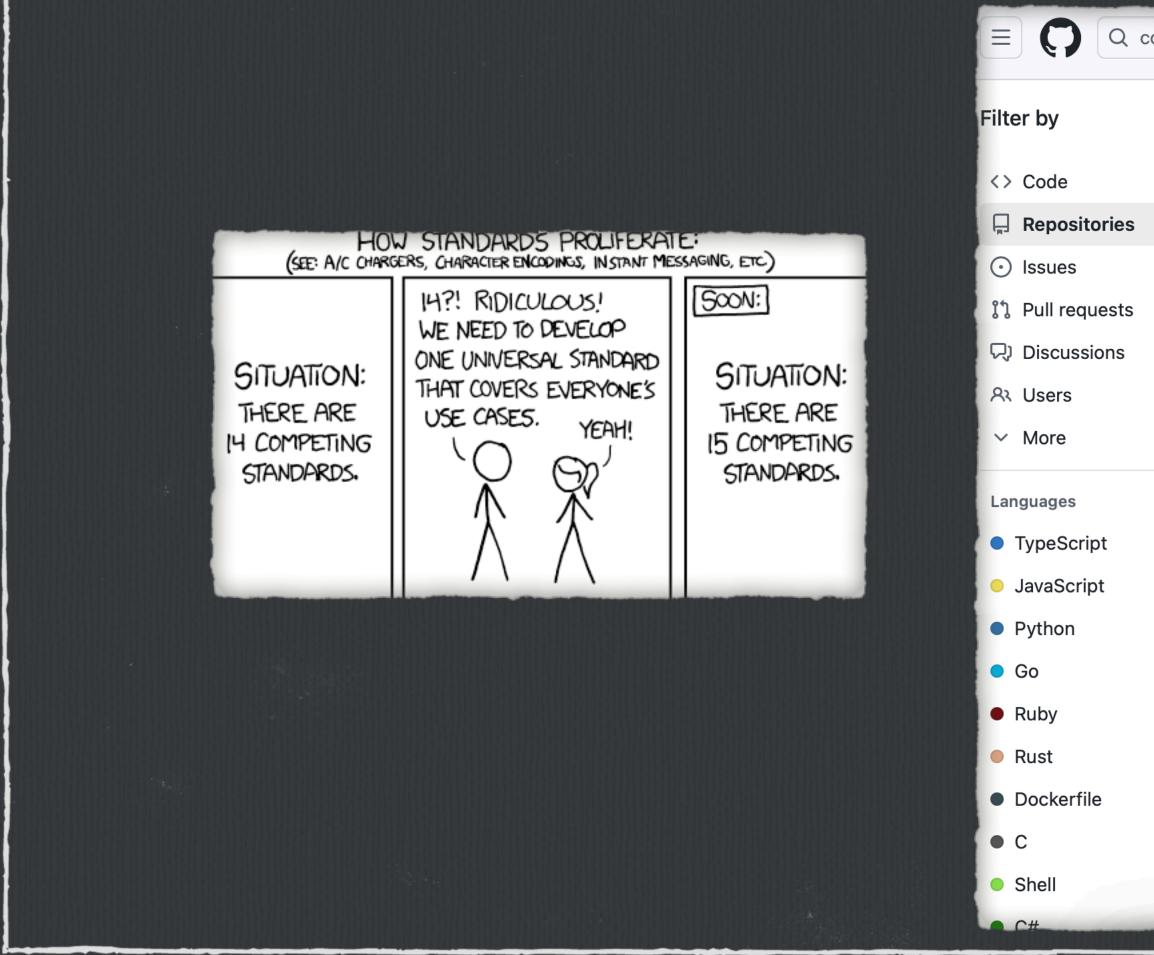
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### Cooklang: More Than a Format—A Growing Ecosystem



cooklang		ii 🗗 🧕
	146 results (231 ms) Sort by: Best match -	Save
4.5k	cooklang/cooklang-obsidian	
146	Edit and display <b>CookLang</b> recipes in Obsidian	Tunstar
451	obsidian obsidian-plugin obsidian-md cooklang	
2k	TypeScript · 🟠 226 · Updated on 15 Nov 2024	
51		
2	<ul> <li>cooklang/spec</li> <li>Home for Cooklang specification and general discussions about the ecosystem</li> <li>cooklang</li> </ul>	\star Unstar
	☆ 605 · Updated 15 days ago	
	<ul> <li>Zheoni/cooklang-chef</li> <li>A CLI to manage cooklang recipes</li> <li>rust cli parser cooking-recipes cooklang</li> <li>Rust · A 74 · Updated 4 days ago</li> </ul>	Tunstar
	<ul> <li>cooklang/cooklang-import</li> <li>A command line tool to import recipes into Cooklang format</li> <li>hacktoberfest cooklang</li> </ul>	Tunstar



[→ **recipes** cook Usage: cook <COMMAND>

#### Commands:

recipe	
server	
shopping-lis	t
seed	
help	

Manage recipe files Run a webserver to serve your recipes on the web t Create a shopping list [aliases: sl] Populate directory with seed recipes Print this message or the help of the given subcommand(s)

#### **Options:**

-h, --help Print help -V, --version Print version

Docs: https://cooklang.org/cli/help/ → recipes

#### **CLI Demo**

🔴 😑 📄 Recipes — dubadub@MacBookPro — ~/recipes — -zsh — 78×19



		MARCH NO.
		[→ rec
		Ingred eggs plai milk sea oil
		Cookwa fryi
		Steps: 1. Cr an [
		2. Po [
		3. Me la co [
		4. Po ov fr [
		5. On or [
		6. Se [ → <b>rec</b>

dients: 3 in flour 125 g 250 ml 1 pinch salt are: ing pan rack the eggs into a blender, then add the plain flour, milk and sea salt, nd blitz until smooth. eggs: 3, plain flour: 125 g, milk: 250 ml, sea salt: 1 pinch] our into a bowl and leave to stand for 15 minutes. -] elt the butter (or a drizzle of oil if you want to be a bit healthier) in a arge non-stick frying pan on a medium heat, then tilt the pan so the butter pats the surface. oil] our in 1 ladle of batter and tilt again, so that the batter spreads all ver the base, then cook for 1 to 2 minutes, or until it starts to come away rom the sides. -]

- r until cooked through. -1
- erve straightaway with your favourite topping.

cipes 📕

Recipes — dubadub@MacBookPro — ~/recipes — -zsh — 84×36

cipes cook recipe read Breakfast/Easy\ Pancakes.cook

nce golden underneath, flip the pancake over and cook for 1 further minute,



```
[ recipes cook recipe read -f json --pretty <u>Breakfast/Easy\ Pancakes.cook</u>
{
  "metadata": {
    "map": {}
  },
  "sections": [
    {
      "name": null,
      "content": [
          "type": "step",
          "value": {
            "items": [
                "type": "text",
                "value": "Crack the "
              },
                "type": "ingredient",
                "index": 0
              },
                "type": "text",
                "value": " into a blender, then add the "
              },
                "type": "ingredient",
                "index": 1
              },
                "type": "text",
                "value": ", "
              },
                "type": "ingredient",
                "index": 2
```

Recipes — dubadub@MacBookPro — ~/recipes — -zsh — 84×36



🛑 🛑 📄 📄 Recipe	es — dubadub@MacB
[→ <b>recipes</b> cook shoppi	.ng-list <u>./Breakfas</u>
ast.cok <u>./Dinners/Sici</u>	lian-style\ Scotta
TRACE checking auto ai	· · · · · · · · · · · · · · · · · · ·
[dried herbs and spice	s]
black pepper	
fennel seeds	1 tsp
ground cinnamon	1 pinch
salt	1 pinch
sea salt	1 pinch
[fruit and veg]	
fresh oregano	2 springs
garlic	2 cloves
lemon	
mushrooms	100 g
[meat and seafood]	
bacon	5 strips
lamb chops	8 large
[milk and dairy]	
butter	30 g
eggs	2 large, 3
milk	250 ml
[oils and dressings]	
extra virgin olive oil	. 1 splash
oil	
[tinned goods and baki	.ng]
baked beans	1 can
plain flour_	125 g
→ recipes	

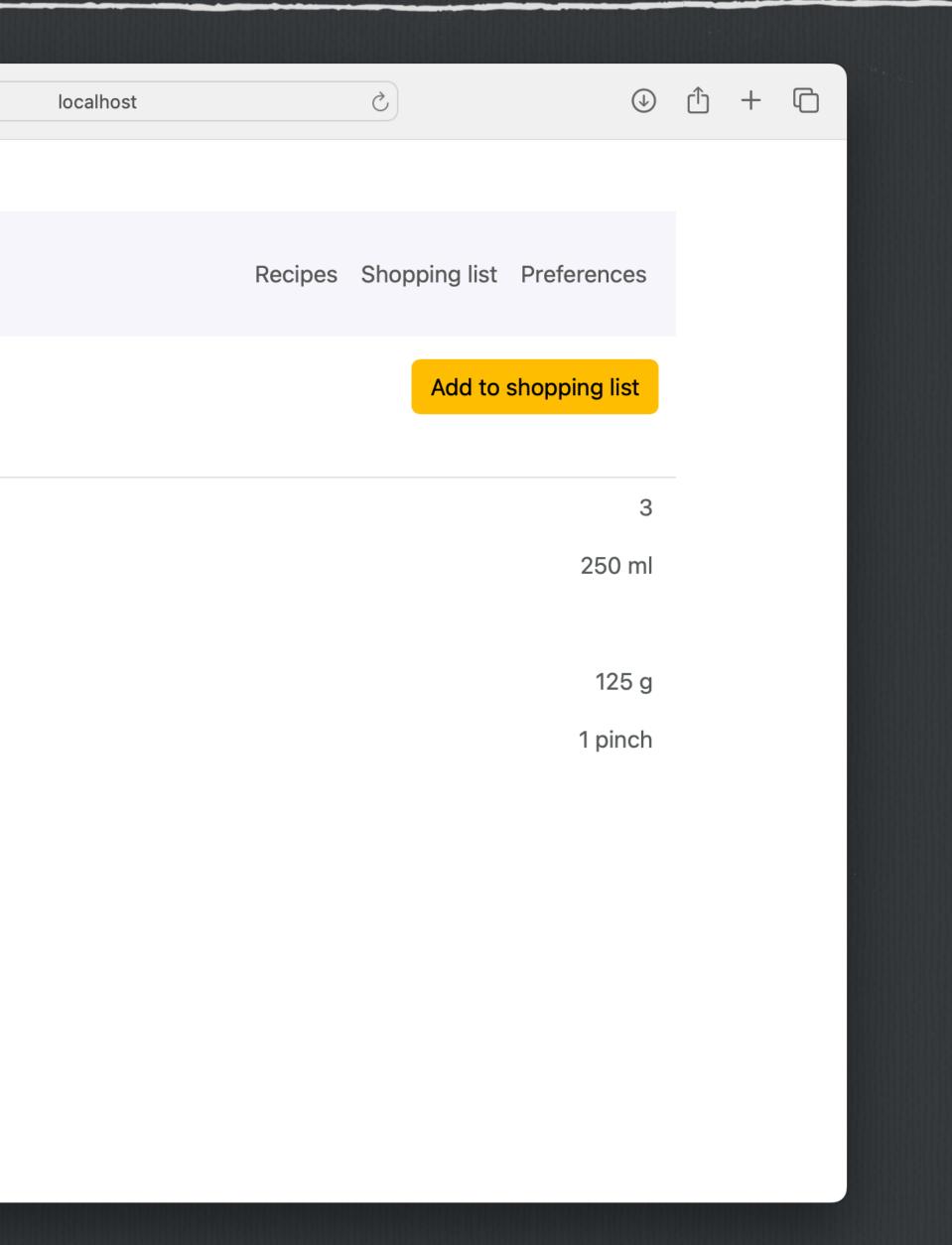
#### BookPro — ~/recipes — -zsh — 87×28

<u>st/Easy\ Pancakes.cook</u> ./Breakfast/Irish\ Breakf] <u>adito\ Lamb\ Chops.cook</u> g/aisle.conf



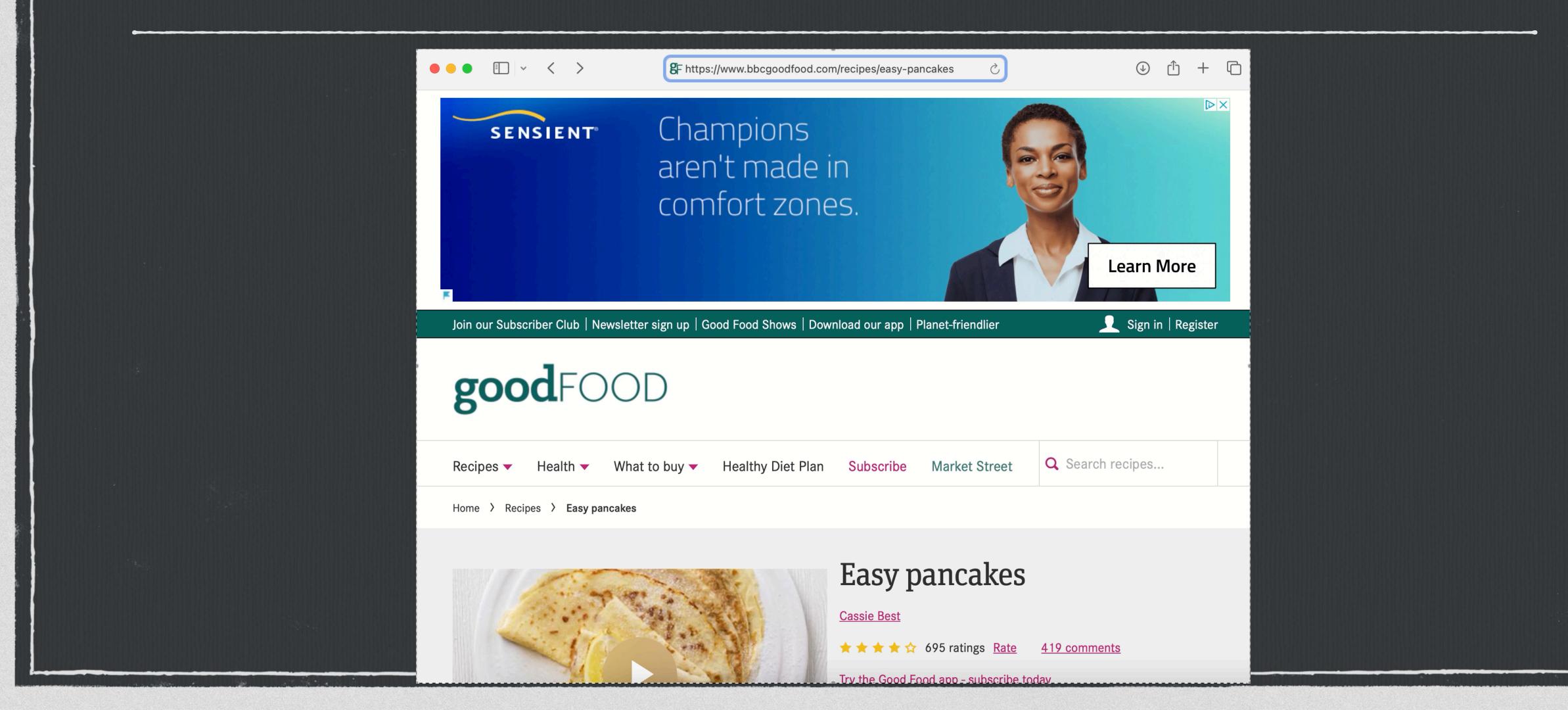


=	~	<	>	(			
	•	••	Cool	<			
	<u>Ho</u>	<u>me</u> /	<u>Break</u>	<mark>fast</mark> / Easy	/ Pan	cakes	
	Ing	gredie	ents	Cookwar	е	Steps	
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	mil	lk					
	oil						
	pla	in flo	our				
	sea	a salt					





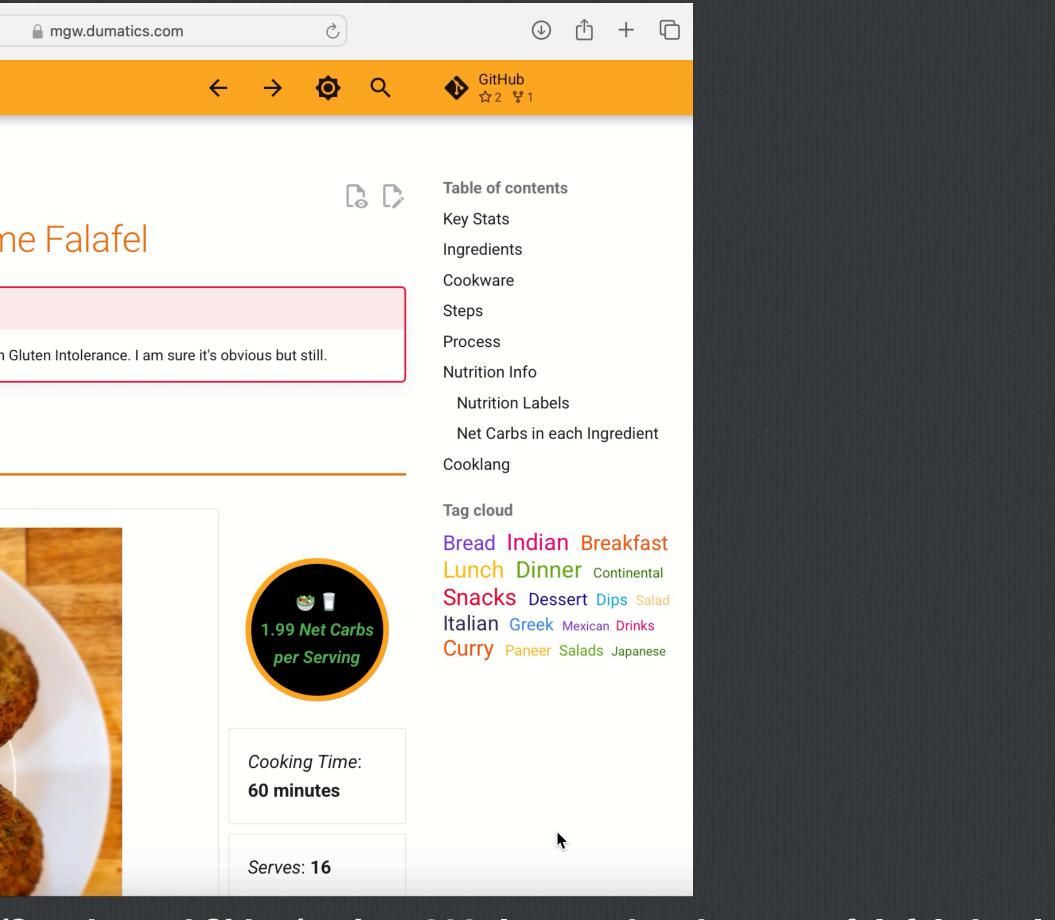
#### cook.md recipe converter





### Cooking with Control: How Cooklang Empowers Dietary Management

	$\equiv$ The Diary Of A Diabetic
	S Greek S Snacks Low Carb Edamame
	O Danger
	This recipe is based on wheat gluten so it is not suitable for those with Glute
	Key Stats
https://mgw.dumatics.com	n/a diabetics iournal/Recipes/Sr



nacks and Sides/recipe\_008\_low\_carb\_edamame\_falafels.html#cooklang



#### Get involved

# □ Visit our web-site <u>https://cooklang.org</u> □ Visit our GitHub <u>https://github.com/Cooklang</u> □ Join our Discord (link on web-site) Learn and experiment with playground, parsers, CLI, Obsidian plugin, ML... **Contribute!** Docs, Rust libraries, JS, ML, ... all waits your contribution **Contact me <u>alexey@cooklang.org</u>**



Thanks! And happy cooking!

