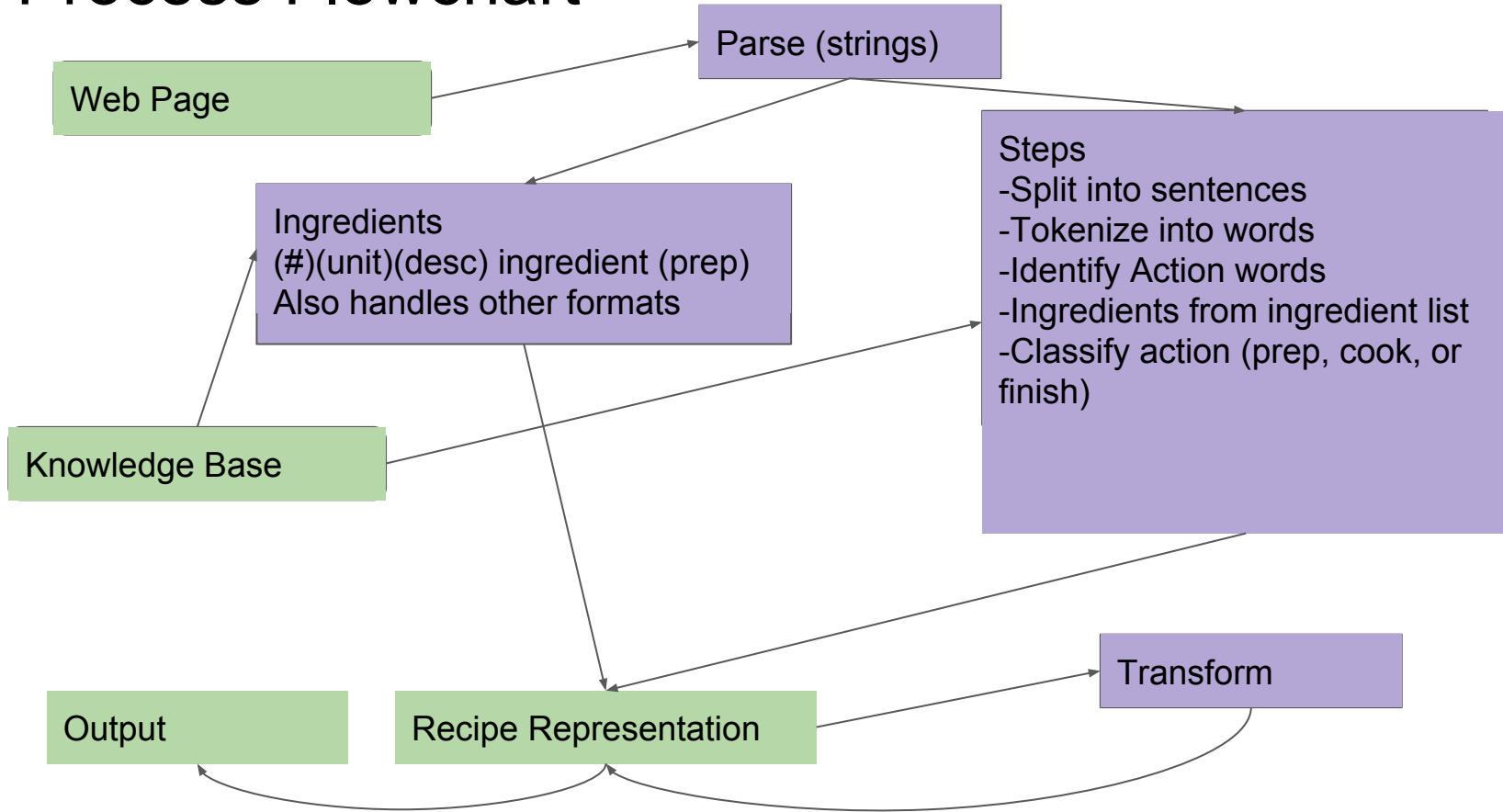
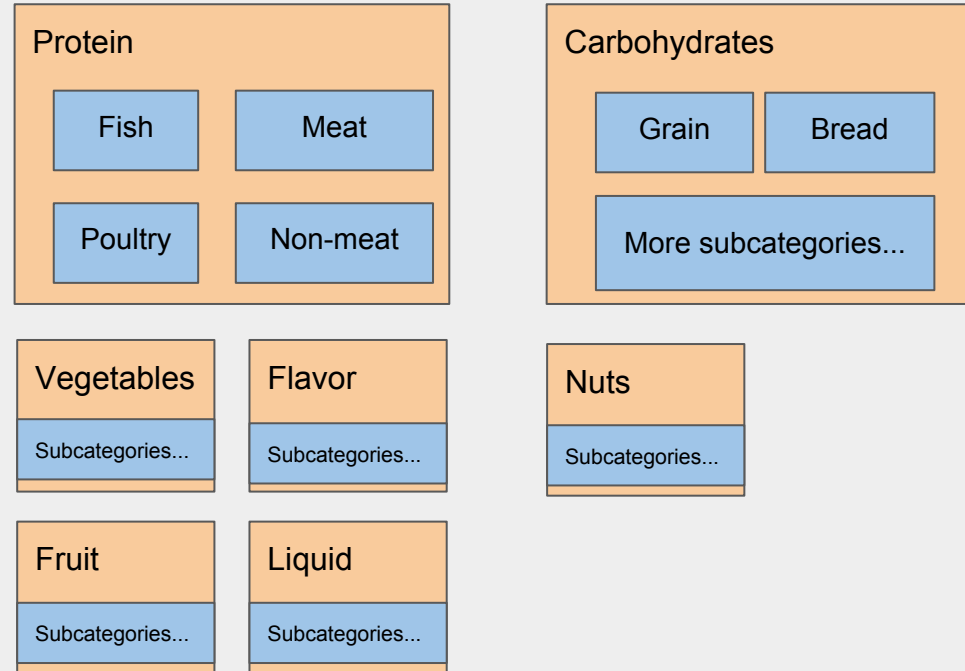


Process Flowchart



Knowledge Base - Ingredients

Pseudo-structure: Ingredients

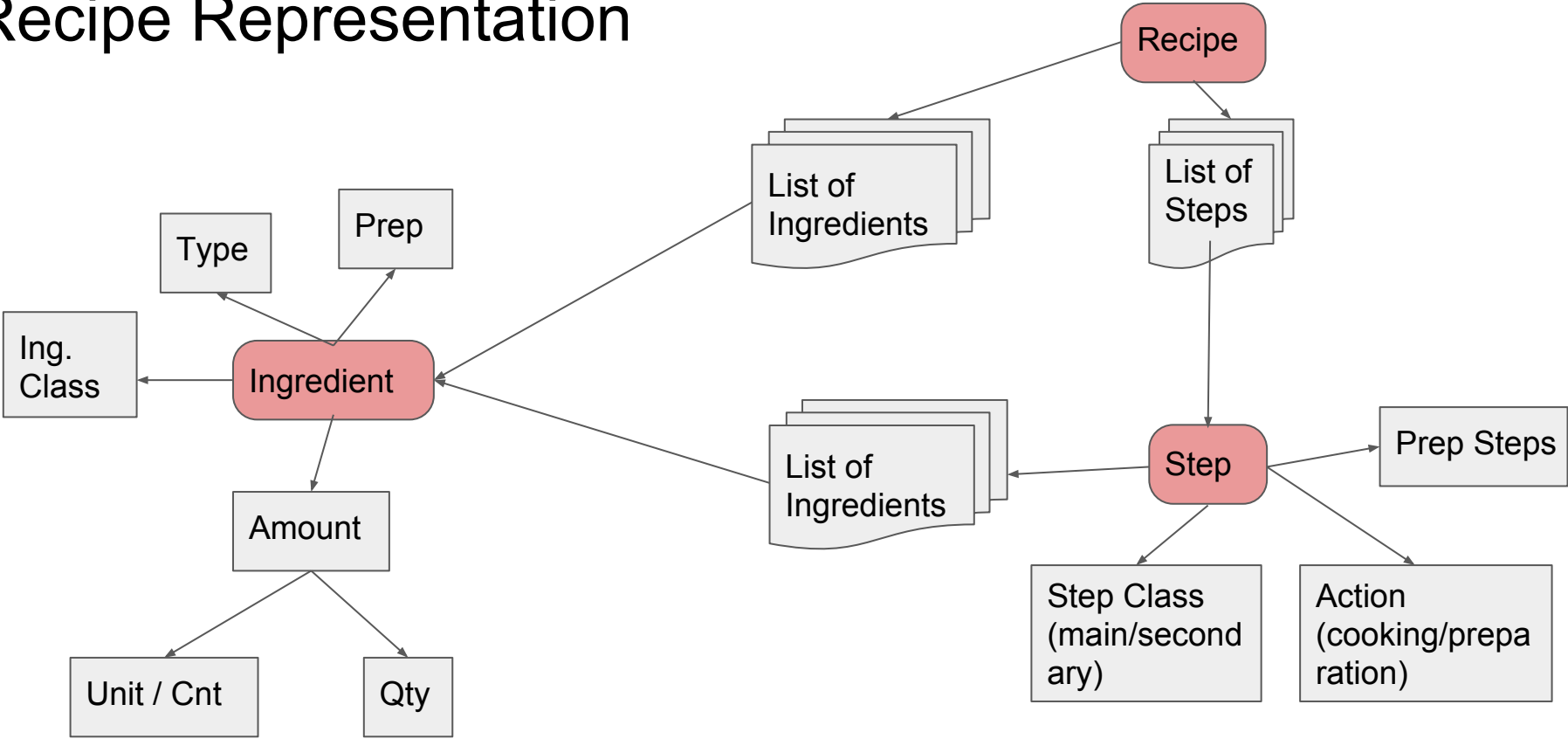


Mongo document structure

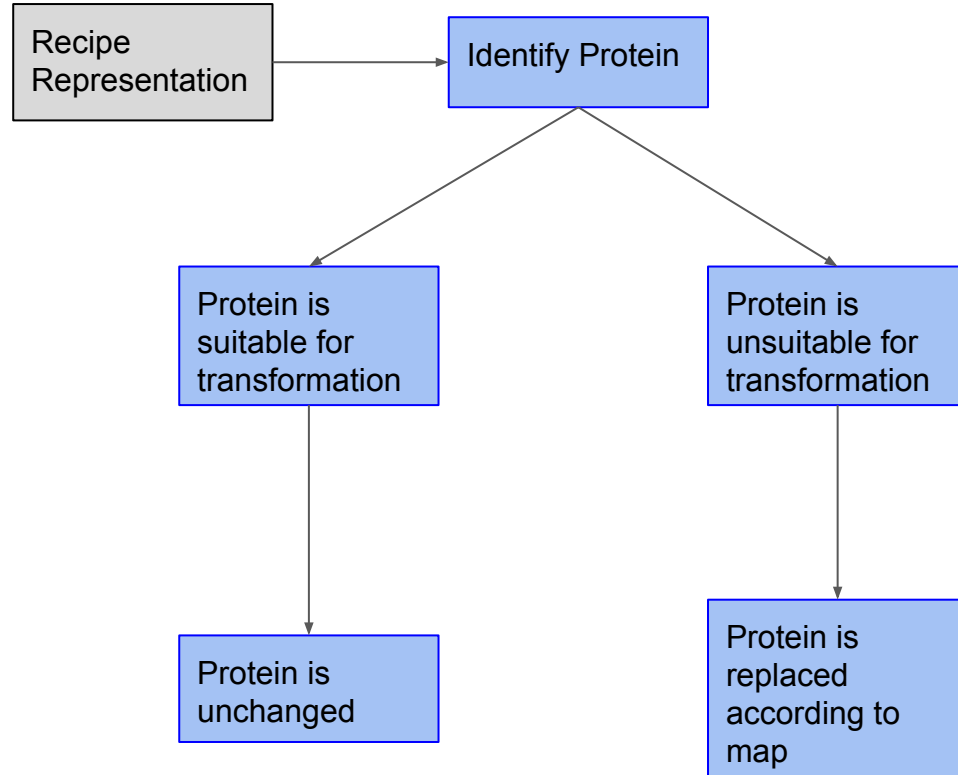
- name (search by this)
- parent ingredient hierarchy (see left)
- default unit type
- quantity -> cups transformation
- Quantity -> ounces transformation
- reference to recipe to decompose to, if there is one
- Carbohydrate, sodium, and glycemic index levels: low, neutral, or high

Code lets ingredients “inherit” properties from their parent hierarchy

Recipe Representation



Vegetarian/Pescatarian Transformation



Map: (defaults to inheriting from parents)

To Vegetarian:

beef -> portobellos/beans

pork/poultry/fish -> tofu

bacon/prosciutto -> salt+butter+panko

meat stock/broth -> vegetable stock

To Pescatarian:

beef -> portobellos/beans

steak -> tuna steak

pork/poultry -> tilapia

bacon/prosciutto -> salt+butter+panko

meat stock/broth -> vegetable stock

From Vegetarian:

beans -> ground beef/pork

portobello -> beef

tofu -> chicken

vegetable stock -> chicken stock

From Pescatarian:

beans -> ground beef/pork

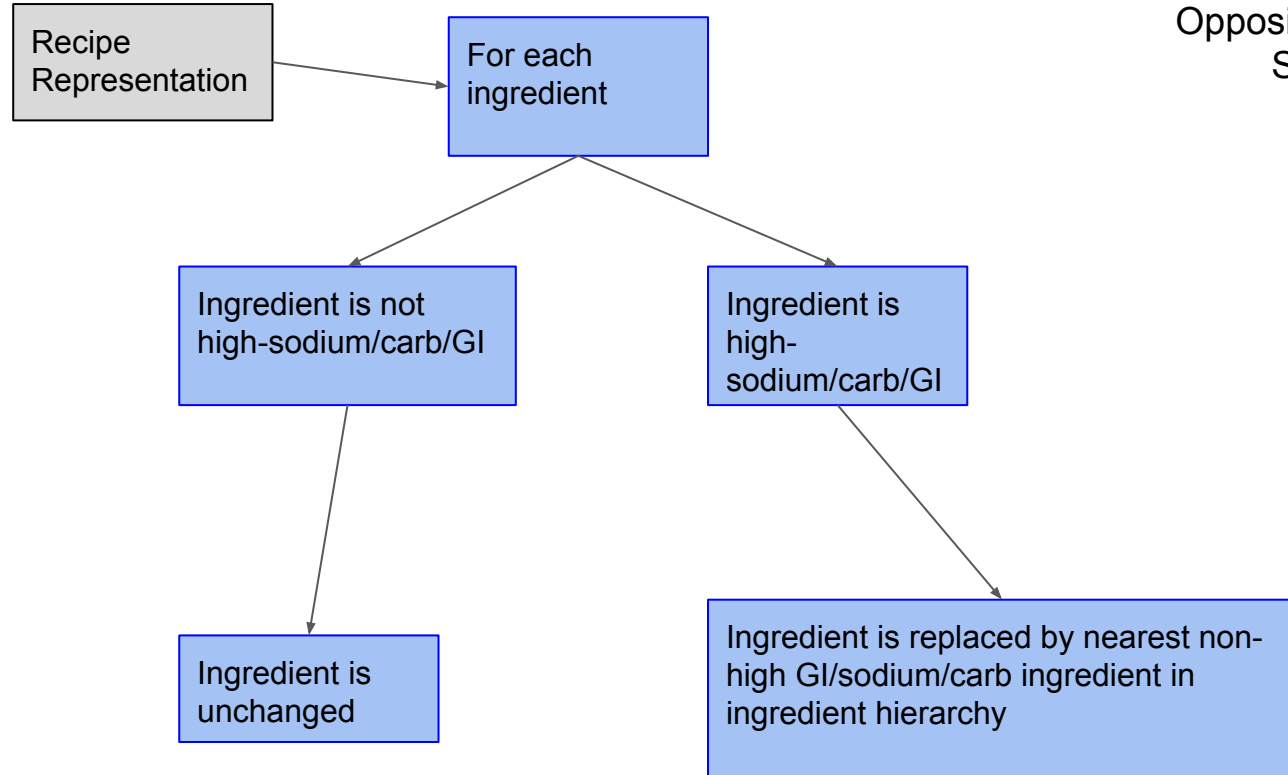
portobellos -> beef

tofu -> chicken

vegetable stock -> chicken stock

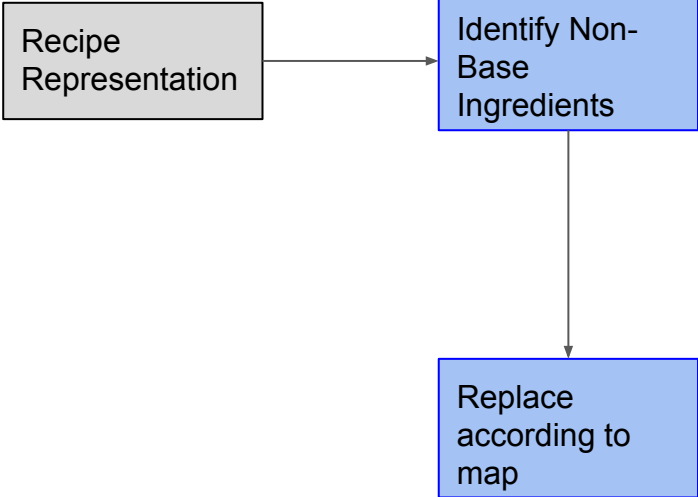
fish -> pork

Health Transformation



Opposite direction transforms:
Same but avoid low

DIY Transformation



Map:

Chicken Stock	http://allrecipes.com/recipe/12983/basic-chicken-stock/	Cheese Sauce	http://allrecipes.com/recipe/23198/cheese-sauce/
Beef Stock	http://allrecipes.com/recipe/12984/basic-beef-stock/	Salsa	http://allrecipes.com/recipe/35304/pico-de-gallo/
Fish Stock	http://allrecipes.com/recipe/175594/dashi-stock-konbudashi/	etc.	
Vegetable Stock	http://allrecipes.com/recipe/12982/basic-vegetable-stock/		
Tomato Sauce	http://allrecipes.com/recipe/23601/basic-sauce-for-pasta/		
Pesto Sauce	http://allrecipes.com/recipe/13937/pesto/		
Alfredo Sauce	http://allrecipes.com/recipe/237995/better-than-olive-garden-alfredo-sauce/		
Yogurt Sauce	http://allrecipes.com/recipe/20313/yogurt-mint-sauce/		

Unit transform database

name :

type of unit : (volume, mass, count?)

list of synonyms : (T, tbsp, tablespoon)

transformation to default unit of that type: (1 tablespoon = 1/16 cup)