
Chef, why did the chicken *cross* the road?
Because **you didn't** f♥king ***cook*** it, you f♠♣king ***clown***!
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Just Desserts
OWL Project 2018

A Desserts Ontology in OWL

A Database of Desserts defines 154 desserts (e.g. "**Tiramisu**") in terms of 128 ingredients (e.g. "***sugar***", "***cream***", "***coffee***", etc.)

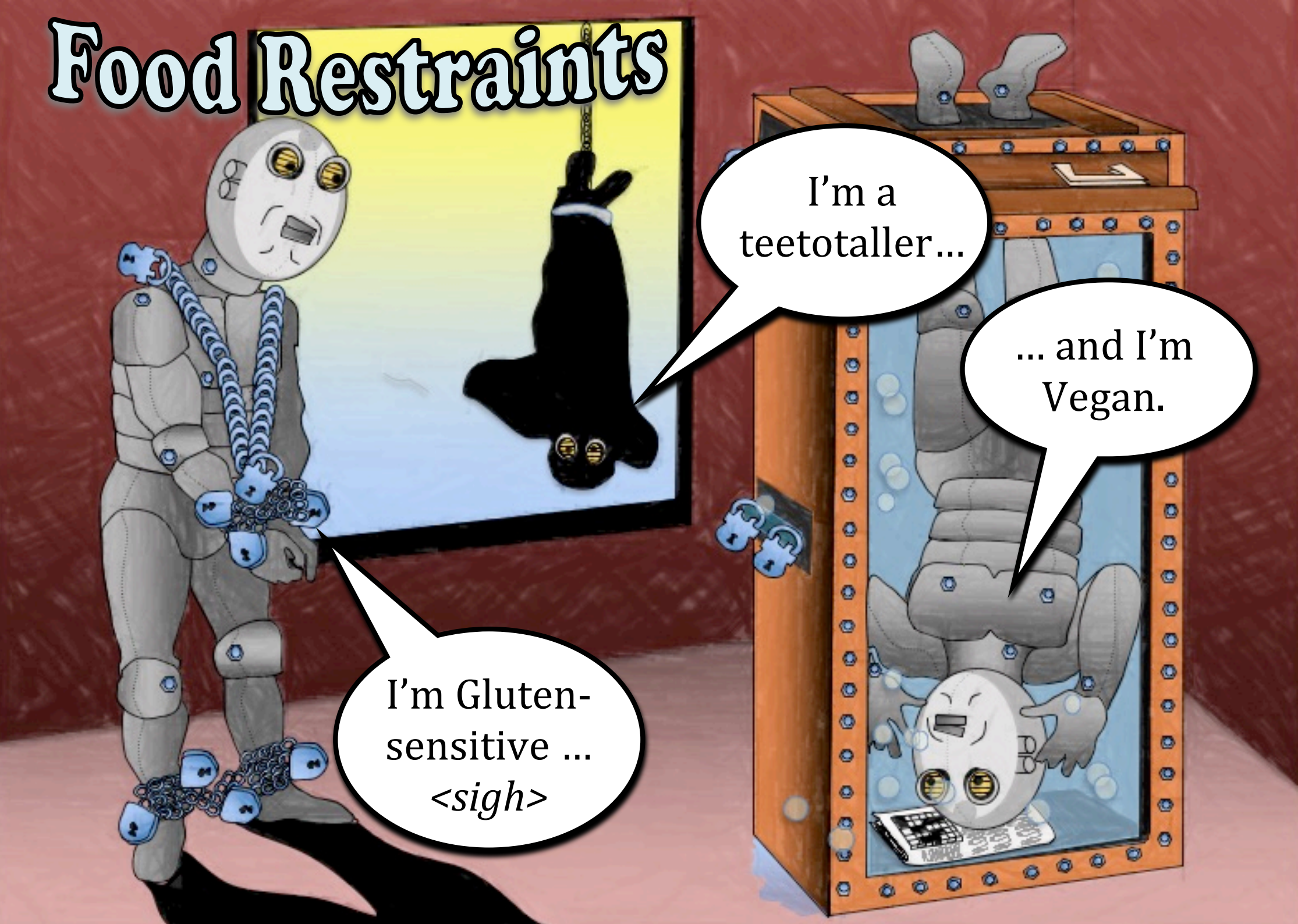
Your Task is to create a corresponding OWL ontology that defines each dessert in terms of its parts AND defines additional inference categories

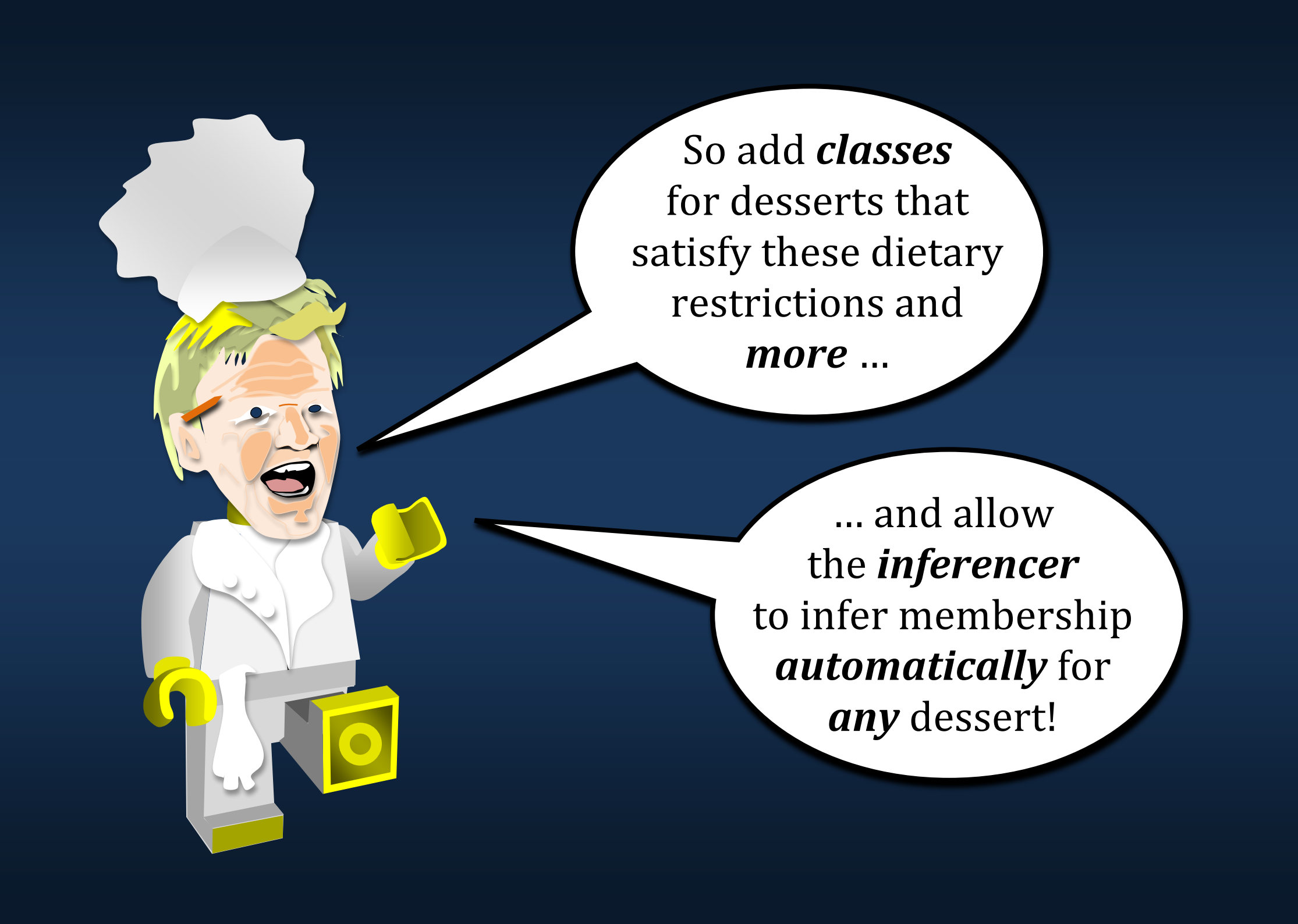
Dessert	Ingredients
Almond tart	almonds, eggs, milk, sugar, flour
Angel food cake	egg whites, sponge, sugar
Apple brown betty	apples, crumbs, butter, brown sugar
Apple Charlotte	apples, sugar, butter, bread slices
Apple crumble	apples, flour, sugar, butter
Banana muffins	bananas, flour, eggs, milk, sugar
Banoffee pie	bananas, cream, toffee, biscuit crumbs
Battenberg cake	sponge, jam, marzipan
Belgian waffles	eggs, milk, flour, sugar, vanilla essence
Biscotti Regina	sesame seeds, orange zest, flour, eggs, milk
Biscuit Tortoni	heavy cream, almonds, chocolate chips, rum

List of Desserts.xlsx

A spreadsheet is a collection of triples (intersections of named columns and rows that each contain one or more values), so the conversion to a “semantic representation” is straightforward.

Food Restraints




So add *classes* for desserts that satisfy these dietary restrictions and *more* ...
... and allow the *inferencer* to infer membership *automatically* for *any* dessert!

Write your ontology in Terse Triple (“turtle”) format …

… thinking carefully about what is a class and what is an individual …

… submit with a short report (~5 pages) by:

May 1st, 2018