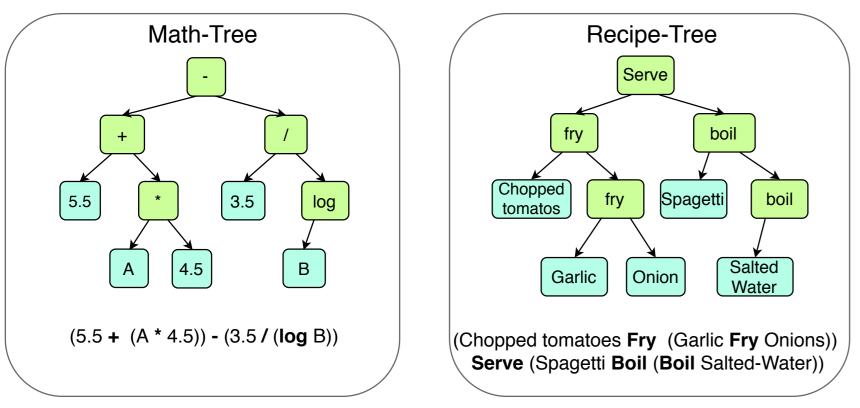
Smart Chef - Evolving Recipes

Carsten Draschner, Hajira Jabeen, Jens Lehmann

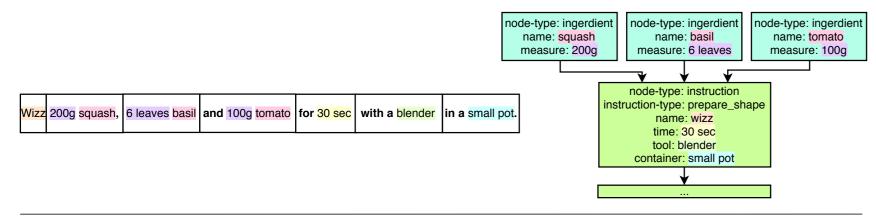
Machine Readable Recipes

- Semantics preserving Recipes Representation
- Recipe Representation inspired by Genetic Programming
- Variables correspond to **Ingredients**
- Mathematical Operations correspond to Preparation Tasks
- Operation Ordering given by Tree Structure

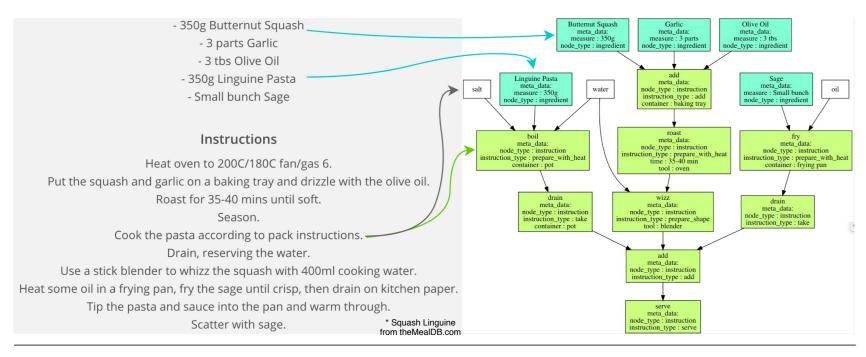


Example Preparation Task to Tree Representation

- Nodes have further Annotations containing Semantic Informations
- Ingredient-Proportions, Cooking-Time, Cooking-Tool, Cooking-Time, Preparation-Type (Heating, Changing Shape)



Complete Recipe Instructions to Tree Representation



Simplified Example Ingredients-Hierarchy-Graph

• Ingredients assigned a Hierchical Food Category Path

