

OWL Ontology Fragment (in DL syntax)

$\text{wine:Wine} \leq \text{food:PotableLiquid} \cap (\geq 1 \text{ wine:madeFromGrape}) \cap$
 $(=1 \text{ wine:hasMaker}) \cap \forall \text{ wine:hasMaker wine:Winery}) \cap$
 $(=1 \text{ wine:hasColor}) \cap \dots$

$\text{wine:madeFromGrape} \leq \text{wine:Wine} \times \text{wine:WineGrape}$

$\text{wine:hasColor} \leq \text{wine:Wine} \times \text{wine:WineColor}$

$\text{wine:WineColor} = \{ \text{wine:White}, \text{wine:Rose}, \text{wine:Red} \}$

$\text{wine:White} \neq \text{wine:Rose} \quad \text{wine:White} \neq \text{wine:Red} \quad \text{wine:Rose} \neq \text{wine:Red}$

$\text{wine:WineDescriptor} = \text{wine:WineTaste} \cup \text{wine:WineColor}$

$\text{wine:WhiteWine} = \text{wine:Wine} \cap (\text{wine:hasColor wine:White})$

$\text{wine:Riesling} = \text{wine:Wine} \cap (\leq 1 \text{ wine:madeFromGrape}) \cap$
 $(\text{wine:madeFromGrape wine:RieslingGrape})$

$\text{wine:Riesling} \leq \text{wine:hasColor wine:White}$