

**Info 6540 – Database Management  
Ontology Assignment**

**The Simpsons**

I created an ontology of characters from the television show “The Simpsons.” I selected main characters from the show, plus those characters immediate family members. I wanted to show whole families and how they were related. Due to the large number of characters, I limited this ontology to the Simpsons, Flanders, Bouvier, and VanHouten Families; and I added Homer’s bar mates Barney Gumble and Moe Szyslak. In total, this includes eighteen characters, all as classes.

Next I added traits of the characters as classes: age category, hair colour, address, work location, school location and family group name. Then I created the object properties to define the relationships among the classes. Most of the object properties connect characters to each other by their relationships (e.g., “has Aunt”, “hasSister”, “isGrandfatherOf”, “isFriendOf”); there are 32 of these object properties. I also created the inverse properties of each of these. Other object properties relate to the traits: e.g., “goesToSchoolAt”, “isAge”, “livesAt”, and “hasHairColour”.

Finally I could create triples in the classes, under each class description. I used the character as the domain to create each relationship. Some examples include: “HomerSimpson hasSon min1 BartSimpson”, “MargeSimpson hasHairColour some BlueHairColour”, and “BarneyGumble goesTo some MoesTavern”.