

Zodiac Sign Ontology

Description

The ontology focuses on relations between zodiac signs and their traits. There are 12 total zodiac, or astrological signs. Zodiac signs are often equated with various aspects of a person's personality depending on what signs they are born under.

Zodiac signs also have many traits that are said to affect behaviour and other aspects of personality within a sign, such as what season, ruling planets, elements, and quality one is associated with.

The ontology concerns information about the zodiac signs, and covers their seasons, qualities, elements, and rulings planets, as well as the months the signs cover. For brevity within this assignment, the ontology covers all 12 signs and various traits, but not specific data ranges or personality traits associated with the signs or their traits.

Classes

Top level classes within the category of Thing includes: Zodiac Signs, Element, Month, Quality, Ruling Planet, and Season. Each of these classes are disjoint with no overlap within these categories. Annotations include a definition of each of the terms.

Within high level classes are subclasses, which are divided by trait. For example, Season has the subclasses: Fall, Winter, Spring, and Summer.

Object Properties

The Object Properties of the ontology and their inverses depict the relationship between Zodiac Signs and their traits. They are listed below:

- (ZodiacSign) hasElement (Element) / isElementof
- (ZodiacSign) hasMonth (Month) / isMonthof
- (ZodiacSign) hasQuality (Quality) / isQualityof
- (ZodiacSign) hasRulingPlanet (Ruling Planet) / isRulingPlanetof
- (ZodiacSign) hasSeason (Season) / isSeasonof

Relationships that Asymmetric and Irreflexive include: hasMonth and hasRulingPlanet. These are properties where the domain and range are disjoint.

Relationships that Asymmetric, Irreflexive, and Inverse functional include hasElement, hasQuality, and hasSeason. These are properties that have a disjoint domain and range and can have at most one outgoing value or relationship.