Coding Standards

For Team Rapidash Cachers (Johnathan McNutt, Ted Bickham, Zoe Baker)

1. **Naming Conventions**

    1.1 Casing Conventions

    - Class: PascalCapitalization
    - Methods: camelCase
    - Public, static, and scoped Variables: camelCase
    - Private Variables: _camelCase
    - Constants: ALL_CAPS_AND_UNDERSCORES

    1.2 Method and Variable Calling

    - Class level methods or variables called internally should begin with "this."
    - Static methods and variables should begin with the class name followed "." even when called internally.

    1.3 Descriptive Naming

    The following must have descriptive names:

    - Class Names
    - Class Level Variables
    - Method Names
    - Parameters

    Any scoped variables can be named as the programmer wishes

    Example of descriptive name: characterCount

2. **Whitespace Use**

    2.1 Spaces between arithmetic operators and operands

    2.2 Line breaks between unrelated logic

3. **Placement of Brackets**

    Brackets will meet K&R style. Opening brackets placed on same line as class, method, statement, or loop.

4. **Comment Standards**

   4.1 Class Comments

   JavaDoc style; open with class description followed by @author.

   4.2 Method Comments

   JavaDoc style; open with method description. Include @params, @throws, and @returns

   Exception: private methods may contain only @private. Description not needed.

   4.3 Internal Comments

   No internal commenting is required.

5. **Modularity Considerations**

   Each method should be its own separate calculation. If a method can be broken down into smaller methods it should be.