Diagram

M

Langauge Model

C

?

V

Games (visually)
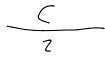
Requirements by Game:
- **Mad Libs:**
    1. Get a story:
        i. Accept a topic to search on Wikipedia, some # of links to click on (w/ a default value, probably hardcode a max value),
        ii. scrape some portion of the page we land on as the base mad lib story
    2. Remove some number of words from a **String**, then **return that new String**
    3. Given a **String** of text with words missing, fill in the blanks

- **Find the Real Quote**
    1. Scrape a set of quotes
    2. Process a set of scraped qutoes into a table
    3. Replace some # of words in the quote @ random (difficulty based)
        i. **Note: Strategy pattern**

- **"How well do you know your favorite Song?"**
    1. Get a song:
        i. Accept a song title and artist. Search google, genius, etc. (**tbd**) for lyrics
    2. Remove some # of words from a **String** of text @ random
        i. Add locations of all removed words to a list, return (Optional return)
        ii. Return the modified list too

- Song game versions:
1. Remove words, Generate a word bank, guess which is correct to fill out the lyrics
    1. Compare to the original song array @ the location user tried to insert into
2. Remove words, fill in the words at random, compare to the correct lyrics, guess which is correct
3. Remove words, fill in words at random, have user try to guess which words were specifically filled in, and which specific words were originally in the song
    1. Keep a list of locations in the array of words which correspond to words that were replaced by the language model. If the user selects a location that is in the array, that word was replaced. If the location selected is not in the array, the word is a correct lyric (not replaced).

Requirements by Game:
- **Mad Libs:**
    1. Story input: Request a topic name from the user, Optional: accept a # of neighbor pages/neighbor distance
        i. Optional/Implementation detail: Limit topics to a set "word bank"/topic list (aka "black list" NSFW topics, if we choose)
- **Find the Real Quote:**
    ○ **Tells you if you guess the quote correctly
- **"How well do you know your favorite Song?"**
    ○ Condition artist & song name
        ▪ Format given song and artist name as url to be searched for: genius.com/ Artist-name-song-name-lyrics
    ○ On-click: returns clicked location back to Model: from click to index

- Views by game:
- MainGame View thing
    1. MadLibView
        a. Some way to enter in a topic
        b. Some way to input a # of neighor links
        c. Receive a complete madlib, some pretty way of displaying it
    2. QuoteView

    3. SongGameView(s):