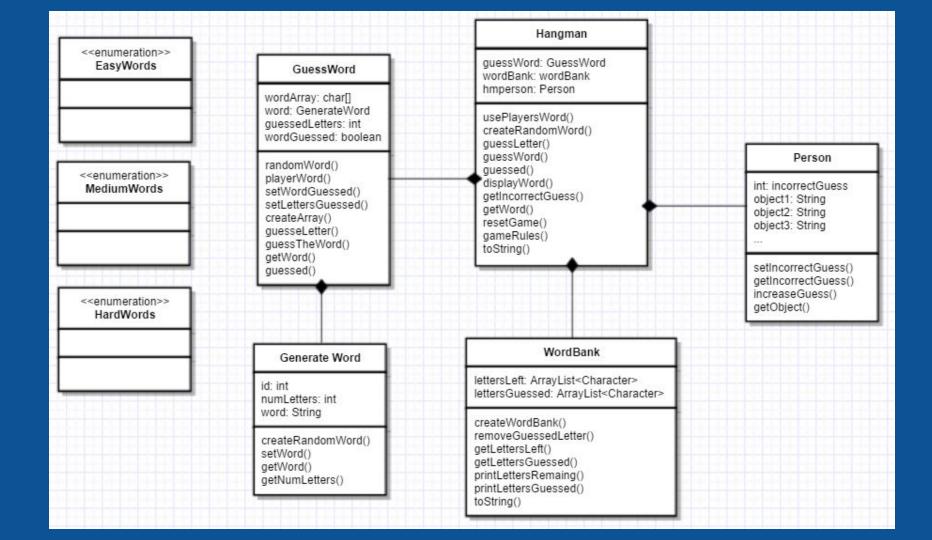
```
Changes not staged for commit:
 (use "git add <file>..." to update what will be committed)
 (use "git checkout -- <file>..." to discard changes in working directory)
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PS C:\Users\Gittie Klein\OneDrive\Documents\MCO152 - Computer Methodology\Klein_G-mco152-2016F_hangman> git add .\src\
PS C:\Users\Gittie Klein\OneDrive\Documents\MCO152 - Computer Methodology\Klein_G-mco152-2016F_hangman> git commit -m
[master 889d4a9] view Ingman after lose
1 file changed
PS C:\Users\Git
Counting object
Delta compressi
Compressing ob
Writing object
Total 5 (delta
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/gittieklein/Klein_G-mco152-2016F_hangman.git
  b81aaaf..889d4a9 master -> master
PS C:\Users\Gittie Klein\OneDrive\Documents\MCO152 - Computer Methodology\Klein_G-mco152-2016F_hangman> git add .\src\
PS C:\Users\Gittie Klein\OneDrive\Documents\MCO152 - Computer Methodology\Klein_G-mco152-2016F_hangman> git commit -m
[master a202d34] always display to string after end of game
1 file changed, 3 insertions(+), 4 deletions(-)
PS C:\Users\Ğittie Klein\OneDrivé\Documents\McO152 - Computer Methodology\Klein_G-mco152-2016F_hangman> git push
Counting objects: 5, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 524 bytes | 0 bytes/s, done.
Total 5 (delta 3), reused 0 (delta 0)
remote: Resolving deltas: 100\% (3/3), completed with 3 local objects.
To https://github.com/gittieklein/Kle<u>in_G</u>-mco152-2016F_hangman.git
  889d4a9..a202d34 master -> master
PS C:\Users\Gittie Klein\OneDrive\Documer()
remote: Counting objects: 5, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 5 (delta 3), reused 5 (delta 3), pack-reused 0
Unpacking objects: 100% (5/5), done.
From https://github.com/gittieklein/Klein_G-mco152-2016F_hangman
```

Your branch is up-to-date with 'origin/master'.



GAME RULES

Game Rules:

WELCOME TO HANGMAN.

- -THE GOAL OF THE GAME IS TO GUESS A WORD, ONE LETTER AT A TIME.
- -EVERY INCORRECT LETTER YOU GUESS ADDS A PART TO THE HANGMAN.
- -AFTER 10 INCORRECT GUESSES, THE HANGMAN IS COMPLETE MAKING IT A GAME OVER.
- -IF AT ANY POINT YOU WOULD LIKE TO GUESS THE ENTIRE WORD, ENTER "0".

The player has an option to have another person enter a word, or the computer to choose a word for him.

MULTI PLAYER

SINGLE PLAYER

```
Enter an option:

1.Play with a friend

2.Play against the computer

2 

Please select a difficulty: easy, medium or hard:
```

| MULTI PLAYER In Main: | | SINGLE PLAYER | | | |
|--------------------------|--|---|--|--|--|
| | | In Main: | | | |
| | hangman.usePlayersWord(playersWord); | hangman.createRandomWord(input.nextLine()); | | | |
| Calls the Hangman class: | | Calls the Hangman class: | | | |
| | <pre>public void usePlayersWord(String word)</pre> | <pre>public void createRandomWord(String level)</pre> | | | |

Which calls the GuessWord class: public void playerWord(String wordX) word.setWord(wordX.toUpperCase());

guessWord.playerWord(word);

Which calls the GuessWord class: public void randomWord(String level) word.createRandomWord(level); createArray(word); createArray(word); Which generates a random word in the

guessWord.randomWord(level);

Which sets the word in the GenerateWord class GenerateWord class

SINGLE PLAYER continued...

GenerateWord Class

```
if(level.equalsIgnoreCase("easy"))
{
    EasyWords w[] = EasyWords.values();
    id = num.nextInt((w.length));
    this.word = w[id].toString();
}
```

- Read in the easy words into an array.
- Generate a random number with the random field "num" that accesses a word at that subscript.
- Locate the enumerated word at that subscript and assign it to the hangman word.

The word for the hangman game is now set

1. Either by receiving a word from the player

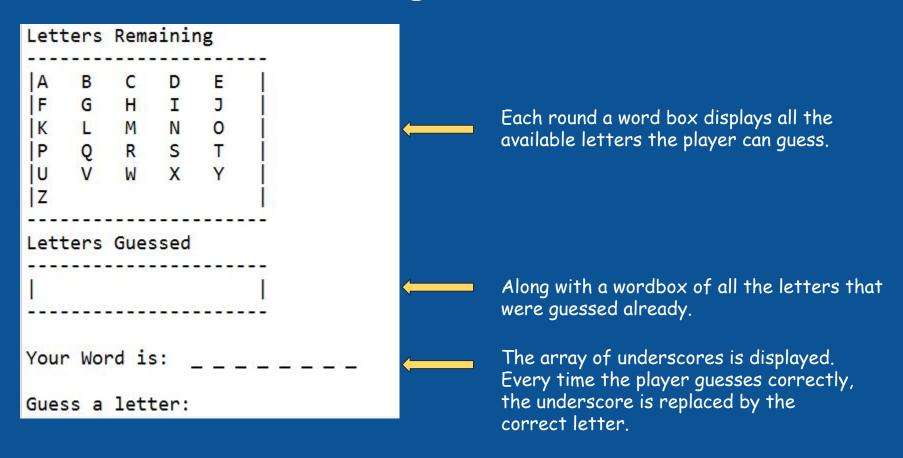
```
public void playerWord(String wordX)
{
      word.setWord(wordX.toUpperCase());
      createArray(word);
}
```

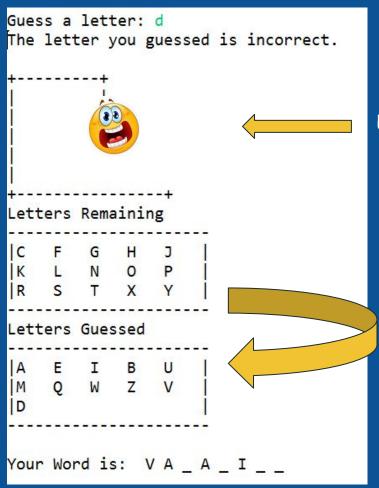
2. Or by generating a random word from an enumerated class based on the choice of level

```
public void randomWord(String level)
{
    word.createRandomWord(level);
    createArray(word);
}
```

An array the size of the word is created and each subscript is assigned an underscore

The game is on!!





Every incorrect guess adds a part to the hangman

Every letter guessed is removed from the letters remaining and added to the letters guessed Word box

If a letter was already guessed, this error message is displayed, but no turns are lost

Guess a letter: a Invalid guess If at any point in the game the player is ready to guess the entire word, he can enter "0" and is prompted for the word

Since we all know the word is vacation.... (10 more days!!!



Your Word is: VA_A_I__

Guess a letter: 0

Guess the word: vacation

Your Word is: V A C A T I O N
Congratulations you guessed the word!

The player has a game over if he guesses 10 incorrect letters, or if he does not guess the word correctly when he enters "O"

| Į | | / \ | | |
|--------------|--------|--------|------|----|
| | | | 1 | |
| + | | | | + |
| Let | ters | Rema | aini | ng |
| N N | 0 | Р | Q | R |
| S | Т | U | V | W |
| X | Y | Z | | |
| Let | ters | Gues | ssed | |
| | | | | |
| | | | | |
| A F | B G | C H | D | E |

The letter you guessed is incorrect.

At the end of each game, the player has an option to play another game or exit

your Word is: K I D __
You lose! The word is KIDS
Would you like to play again? ("Y/N")

CHALLENGES

Unit Testing:

- Private fields with encapsulation hard to have access to test
 For example: we were not able to access the word that the
 computer randomly generated, so could not test methods based on
 the word.
- Solution: After creating an option for the user to enter a word, we were able to test our methods based on our own word.

GitHub:

- In the beginning, we made mistakes in the committing/pushing process that made our repository disorganized.
- Solution: We ended up creating a new repository and just pushed our first group of code as one commit.
- There were a number of times that one of us forgot to pull from gitHub before making changes.
 - Solution: The easiest/cleanest solution we found was to delete our local project and clone it.

CHALLENGES

Hangman:

- After completing the game, we realized our code was not running properly after the player chose to play another game.
 We quickly realized we forgot to reset our hangman, word banks, and boolean variables that
 - We quickly realized we forgot to reset our hangman, word banks, and boolean variables that declares if the player gusssed the word or not!
- Solution: In each class, we created methods that reset the correct fields, and called them all from a method in the hangman class.

```
public void resetGame()
{
    wordBank.resetWordBank();
    guessWord.setWordGuessed(false);
    guessWord.setLettersGuessed(0);
    hmperson.setIncorrectGuess(0);
}
```

```
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