

## **Motivation**

Being a LOL player, I am unsatisfied with my skills in the game. Since I am also a computer science freshman in college, there is not enough time for me to dive into The Summoner's Rift and train slowly to become an expert of it.

However, with this chance of making a final project, I immediately came up with the idea of creating a program about League of Legends that can enhance my skills in the game, and, at the same time, boost my programming skills while building this project up. Since I haven't seen any website or program that gives the precise statistics of each champion in different levels, and compares them, so it drifted me of making one.

## **Overview**

By using this program, we will be able to find out the champions with the highest statistics, analyze, get the newest information of changes in the game, and related videos of the champion; then we can come up with a new playstyle more easily, and apply it in a game.

## **Description of the project plan**

To start with, I will need to get the data of all the champion's statistics from the api of Riot, the company of LOL. Then I should break apart the json file into several parts, getting the information I need. After that, sort out the data and get the ranking of the champions' statics. Finally, transform the data into a discord bot and print out on a discord server. User will be able to enter commands having the bot to give detailed information of a specific champion and videos about it, or the news of the game, to acquire newest patches, or so-called changes, of the game.

With this project, we can easily see the rankings through different champions and get a closer look on their stats; combined with the support of videos about them, the project can give a user a deeper recognition into the champion.

*To listing out the tasks...*

1. Catch champions' info from Riot API
2. Analyze info
3. Rank info
4. Merge in to discord bot
5. Customize output interface

*Web data/services needed:*

1. Youtube API

2. Discord API
3. LOL website (news category)
4. Data given on Riot website

## How Users interact

By typing the following on discord server prints out the given information:

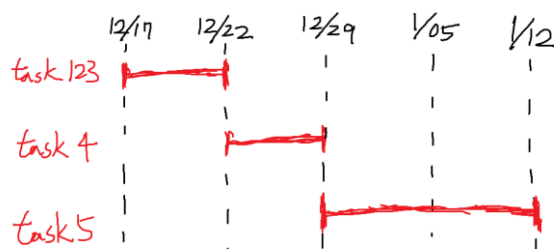
1. !help: lists out all the commands
2. !version: current version of the game
3. !news: Recent news of the game
4. !compare: Starting to compare statics of champions.

Then by entering what you would like to compare gives you the ranking.

(There might be a general ranking)

5. !champ [ChampionName]: List the Ranking of each stats of the champion, and top five videos about it.
6. Other fun commands optional.

## Task schedule



## Update1: week1

Decided to crawl the news from the official website. (since champ data are cdn, not counted.)

Completed code for catching video url and lol news.

Completed code for comparing champion information.

## Update2: week2

Completed discord bot basic format.

Merged the codes on to the bot.

### **Update3: week3**

Decorated the output data format.

Fixed some bugs and the way it outputs.

Added new function that checks for new news and prints it out.

### **Instructions:**

(In lol.py)

#### **!news:**

Lists out the newest 5 update news.

#### **!list [level]:**

List the top 6 champions of each stats on the current level.

#### **!champ [championName] [level]:**

Shows the rank of each stats of the certain champion on the current level.

### **background:**

the program checks for new updates every 6 hours.

It will show the newest update if found.

### **Some extra Easter eggs:**

(In fun.py)


When you type in certain words, the bot will print out some images and texts.


### **In the future:**

The bot will check for new updates about the patch and update the champion information every day.

The bot directly prints out the newest news rather than giving the url.


## Demo:

小宏LR 今天 09:20  
!champ 亞菲利歐

League Compare Bot 機器人 今天 09:20

### 亞菲利歐 (等級1)

生命: Rank 67 530.0	生命回復: Rank 16 3.25	魔力: Rank 34 348.0
魔力回復: Rank 46 6.5	物攻: Rank 25 57.0	物防: Rank 18 28.0
魔防: Rank 8 26.0	攻速: Rank 24 0.64	攻擊距離: Rank 5 550
跑速: Rank 6 330		



### 列出了最相關的幾部影片:

影片1:  
[你需要的一份亞菲利歐攻略 | 英雄聯盟](#)

影片2:  
[【YD解說】29殺！試玩亞菲利歐](#)

影片3:  
[【小魚解說】亞菲利歐居然能這樣玩？](#)

影片4:  
[【LOL新角】新英雄「亞菲利歐」現身！操作難度史上最高！全新機制、不需要點技能的英雄！亞菲利歐AD實測！](#)

影片5:  
[新英雄亞菲利歐 | 操作難度史上最高！拳頭史上最完美的英雄！ | 新英雄ADC實戰示範 | 英雄聯盟](#)

