# Welcome to the Riot API Bootcamp!

KNOW MORE, WIN MORE.

### RIOT API BOOTCAMP SYLLABUS

#### Basics (Python, GitHub, Notepad++)

- 1. Resources to get started
- 2. Setting up an environment
- 3. Downloading GitHub repos
- 4. JSON explanation & Notepad++ example
- 5. Project: read csv file, convert to data frame, create graphs

#### 2. Riot API introduction

- 1. What is an API?
- 2. Getting access & Registering your App
- 3. What end points are there/what data is available?
- 4. Explanation of puuid/account name
- 5. Project: make an API call on the website & download the data

#### 3. Automating API interactions

- 1. Introduction to libraries (Cassiopeia, Riot Watcher)
- 2. Getting help (documentation, Discord)
- 3. Project: automate an API call using a library

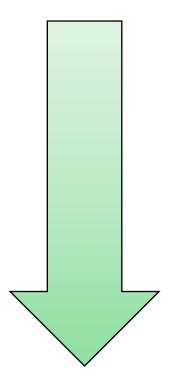
#### 4. Single Endpoint Data

- 1. Use case explanation (e.g., in-depth match analysis, leaderboards)
- 2. Code example- getting challenger leaderboard
- 3. Project: request last 25 games for an account and determine the most common champion(s)

#### 5. Large Scale Data Collection

- 1. Use case explanation (e.g., match history of top 50 players)
- 2. Setting up a process pipeline
- 3. Comparing 1 file approach vs. functions across files approach
- 4. Project: determine number of roles (TOP, MID, etc) on the challenger ladder using the last 5 games

5 Modules covering core topics
Project at the end of each



# Module 2: Riot API introduction

**RIOT API BOOTCAMP** 

Slide Deck



# MODULE 2: INTRODUCTIONS

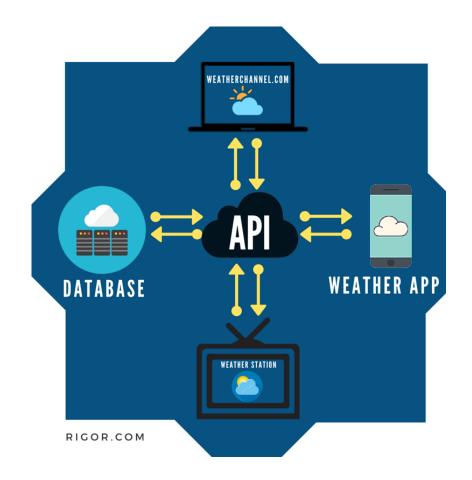
#### 2. Riot API introduction

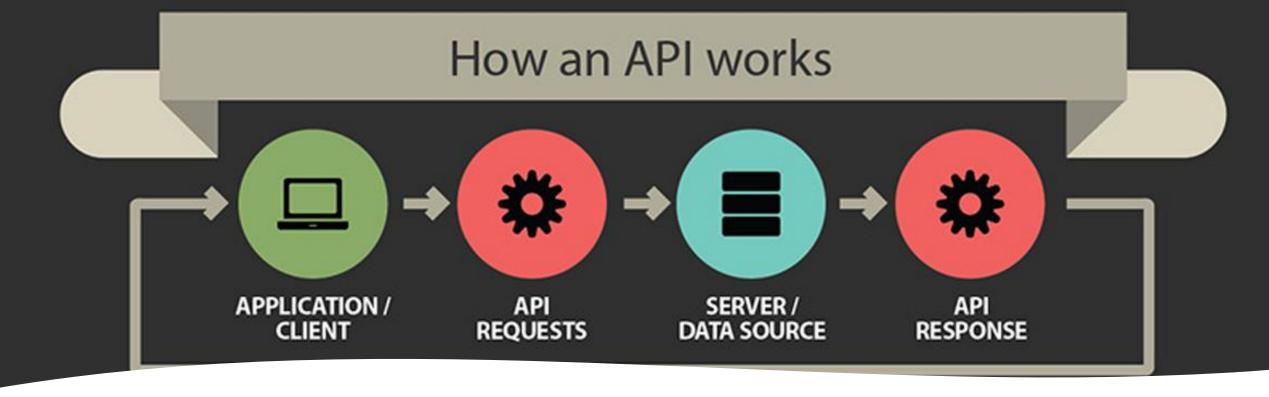
- 1. What is an API?
- 2. Getting access & Registering your App
- 3. What end points are there/what data is available?
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- 5. Project: make an API call on the website & download the data

LET'S DIVE IN

# WHAT IS AN API?

- API= Application Programming Interface
- Application programming interfaces, or APIs, simplify software development and innovation by enabling applications to exchange data and functionality easily and securely.
- An API, enables companies to open up their applications' data and functionality to external thirdparty developers, business partners, and internal departments within their companies.
- Developers don't need to know how an API is implemented; they simply use the interface to communicate with other products and services.





# HOW DOES AN API WORK?

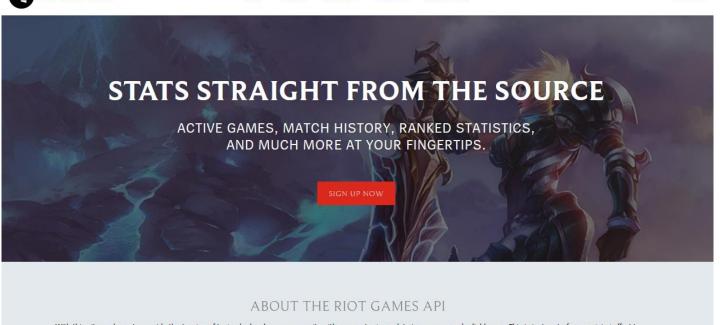
- **1.** A client application initiates an API call to retrieve information—also known as a *request*. This request is processed from an application to the web server via the API's Uniform Resource Identifier (URI) and includes a request verb, headers, and sometimes, a request body.
- 2. After receiving a valid request, the API makes a call to the external program or web server.
- **3.** The server sends a *response* to the API with the requested information.
- **4.** The API transfers the data to the initial requesting application.

#### https://developer.riotgames.com/



APIS DOCS POLICIES STATUS CHANNELS LOGIN





With this site we hope to provide the League of Legends developer community with access to game data in a secure and reliable way. This is just part of our ongoing effort to respond to players' and developers' requests for data and to arm the community with more ways to contribute to the player experience. We want this API to meet the same high standards as our in-game experiences, so we'll be iterating and evolving as we hear your feedback and suggestions (so share 'em all).

GET STARTED

Dive into the API with this short and sweet guide

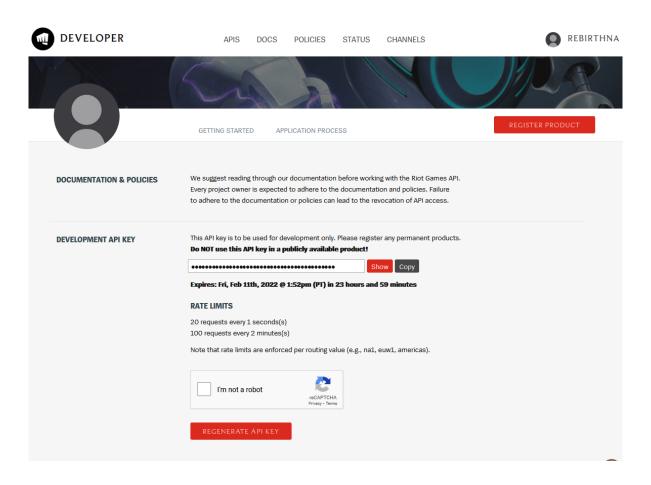
FULL API REFERENCE Learn about each endpoint and the data returned

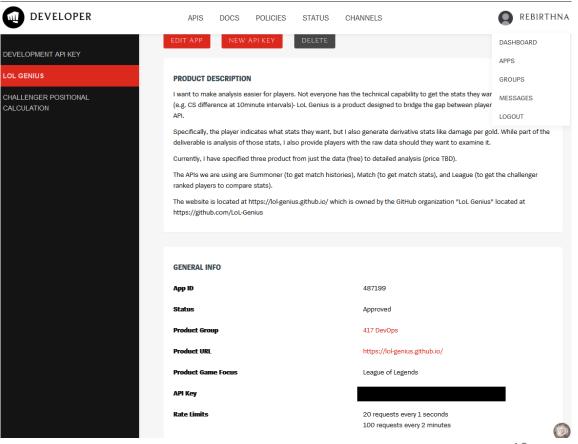
ISSUE TRACKER
Report an issue or check the status
of existing issues



### ACCESSING THE RIOT API

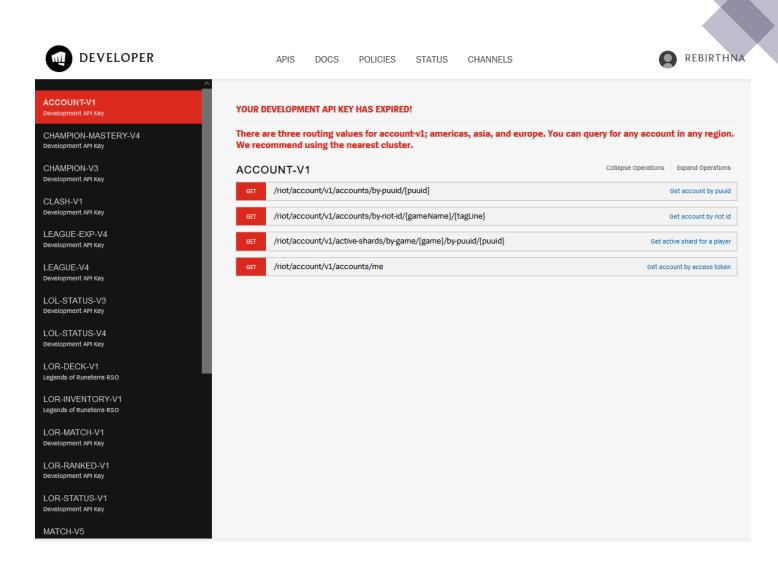
- Every account has a daily developer API key
- Registering an app gives you a static API key for that product
- DO NOT SHARE YOUR API KEY





### RIOT API ENDPOINTS

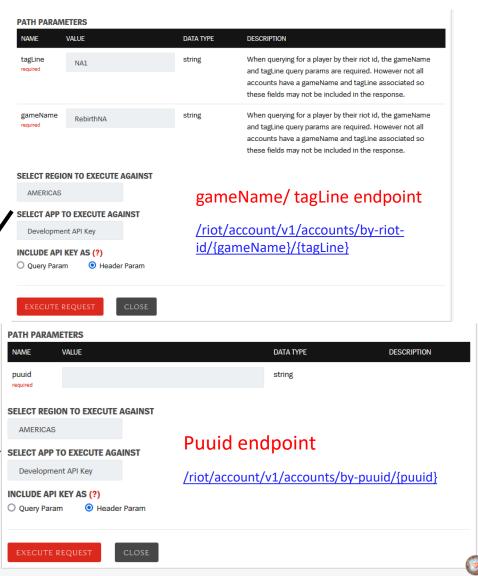
- Each entry on the side is an endpoint
- Each endpoint has a different purpose and returns different values
- Most commonly used endpoints:
  - Account-v1
  - League-v4
  - Match-v5
  - Summoner-v4



## GAME NAME VS. PUUID

- Game name and tagline are what you are used to seeing
- puuid (and sometimes accountID) is what Riot uses internally to reference players
- You can get one from the other (same API response)
- When searching for a player, you will need one of those instead of just their name/tag





# MAKING A REQUEST ON THE WEBSITE

#### **DEMONSTRATION** with

/riot/account/v1/accounts/by-riot-id/{gameName}/{tagLine}

. . .

 $/riot/account/v1/accounts/by-riot-id/\{gameName\}/\{tagLine\}$ 

Get account by riot id

#### Jump to Inputs

RESPONSE CLASSES

Return value: AccountDto

#### AccountDto

NAME	DATA TYPE	DESCRIPTION
puuid	string	
gameName	string	This field may be excluded from the response if the account doesn't have a gameName.
tagLine	string	This field may be excluded from the response if the account doesn't have a tagLine.



## QUESTIONS?

#### Contact me



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It is my hope that this course is easy to understand and follow

Have a question or want additional details? Just reach out!

If you want to know more about my work (LoL Genius) or have questions about something you're building, LMK!