<https://stackoverflow.com/questions/47549891/vue-js-cannot-read-property-push-of-undefined/47551570>

vue 객체의 data 안의 리스트가

axios.get('https://api.twitch.tv/helix/games/top')

                    .then(function(response){

메서드 내부에서 접근되지 않는 문제가 있었다.

기존에는

.then(function(response){

으로 썼었는데,

.then((response) =>{

문법으로 적으니

this.streamGameList

this 명령으로

        data : {

            inputText: '',

            streamGameList : []

        },

의 값에 접근할 수 있었다.

맨 위 링크는 위 문제를 해결하는데 참조한 스택오버플로 링크 페이지이다.

‘바인딩’? 에 관한 문제였었던 것 같다.

# [**콜백 내에서 올바른 'this'에 액세스하는 방법은 무엇입니까?**](https://stackoverflow.com/questions/20279484/how-to-access-the-correct-this-inside-a-callback)

<https://stackoverflow.com/questions/20279484/how-to-access-the-correct-this-inside-a-callback>

JavaScript에서 **함수의 this 키워드**는 다른 언어와 조금 다르게 동작합니다. 또한 [엄격 모드](https://developer.mozilla.org/ko/docs/Web/JavaScript/Reference/Strict_mode)와 비엄격 모드에서도 일부 차이가 있습니다.

대부분의 경우 this의 값은 함수를 호출한 방법이 결정합니다. 실행하는 중 할당으로 설정할 수 없고 함수를 호출할 때 마다 다를 수 있습니다. ECMAScript 5는 [함수를 어떻게 호출했는지 상관하지 않고](https://developer.mozilla.org/ko/docs/Web/JavaScript/Reference/Operators/this#bind_%EB%A9%94%EC%84%9C%EB%93%9C) this 값을 설정할 수 있는 [bind](https://developer.mozilla.org/ko/docs/Web/JavaScript/Reference/Global_Objects/Function/bind) 메서드를 도입했고, ECMAScript 2015는 스스로의 this 바인딩을 제공하지 않는 [화살표 함수](https://developer.mozilla.org/ko/docs/Web/JavaScript/Reference/Functions/%EC%95%A0%EB%A1%9C%EC%9A%B0_%ED%8E%91%EC%85%98)를 추가했습니다

<https://developer.mozilla.org/ko/docs/Web/JavaScript/Reference/Operators/this>

<https://blog.meeta.io/10>

Curl 명령어 설명 잘되있는 블로그 --

<https://m.blog.naver.com/javaking75/220776461230>

# Get Top Games

<https://dev.twitch.tv/docs/api/reference#get-top-games>

## GET <https://api.twitch.tv/helix/games/top>

{

    "data": [

        {

            "id": "509658",

            "name": "Just Chatting",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Just%20Chatting-{width}x{height}.jpg"

        },

        {

            "id": "21779",

            "name": "League of Legends",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/League%20of%20Legends-{width}x{height}.jpg"

        },

        {

            "id": "33214",

            "name": "Fortnite",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Fortnite-{width}x{height}.jpg"

        },

        {

            "id": "138585",

            "name": "Hearthstone",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Hearthstone-{width}x{height}.jpg"

        },

        {

            "id": "29595",

            "name": "Dota 2",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Dota%202-{width}x{height}.jpg"

        },

        {

            "id": "29307",

            "name": "Path of Exile",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Path%20of%20Exile-{width}x{height}.jpg"

        },

        {

            "id": "32399",

            "name": "Counter-Strike: Global Offensive",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/./Counter-Strike:%20Global%20Offensive-{width}x{height}.jpg"

        },

        {

            "id": "32982",

            "name": "Grand Theft Auto V",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Grand%20Theft%20Auto%20V-{width}x{height}.jpg"

        },

        {

            "id": "18122",

            "name": "World of Warcraft",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/World%20of%20Warcraft-{width}x{height}.jpg"

        },

        {

            "id": "493057",

            "name": "PLAYERUNKNOWN'S BATTLEGROUNDS",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/PLAYERUNKNOWN%27S%20BATTLEGROUNDS-{width}x{height}.jpg"

        },

        {

            "id": "488552",

            "name": "Overwatch",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Overwatch-{width}x{height}.jpg"

        },

        {

            "id": "512710",

            "name": "Call of Duty: Modern Warfare",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/./Call%20of%20Duty:%20Modern%20Warfare-{width}x{height}.jpg"

        },

        {

            "id": "511399",

            "name": "Super Mario Maker 2",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Super%20Mario%20Maker%202-{width}x{height}.jpg"

        },

        {

            "id": "491931",

            "name": "Escape From Tarkov",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Escape%20From%20Tarkov-{width}x{height}.jpg"

        },

        {

            "id": "511224",

            "name": "Apex Legends",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Apex%20Legends-{width}x{height}.jpg"

        },

        {

            "id": "32959",

            "name": "Heroes of the Storm",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Heroes%20of%20the%20Storm-{width}x{height}.jpg"

        },

        {

            "id": "491487",

            "name": "Dead by Daylight",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Dead%20by%20Daylight-{width}x{height}.jpg"

        },

        {

            "id": "509660",

            "name": "Art",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Art-{width}x{height}.jpg"

        },

        {

            "id": "27471",

            "name": "Minecraft",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/Minecraft-{width}x{height}.jpg"

        }

    ],

    "pagination": {

        "cursor": "eyJzIjoyMCwiZCI6ZmFsc2UsInQiOnRydWV9"

    }

}

# Get Games

<https://dev.twitch.tv/docs/api/reference#get-games>

## GET https://api.twitch.tv/helix/games

{

    "data": [

        {

            "id": "21779",

            "name": "League of Legends",

            "box\_art\_url": "https://static-cdn.jtvnw.net/ttv-boxart/League%20of%20Legends-{width}x{height}.jpg"

        }

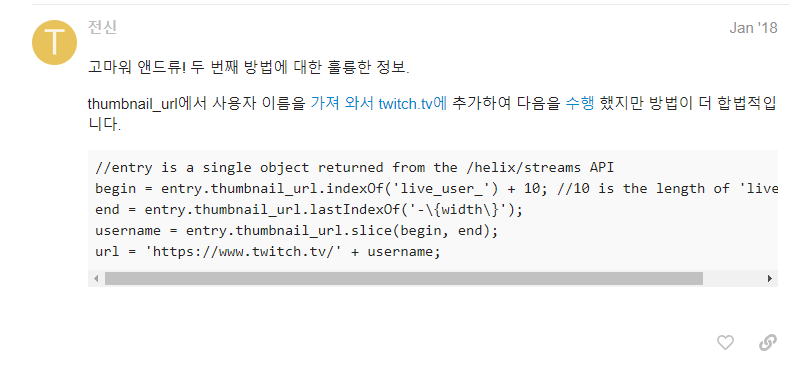
    ]

}

# Get Streams

<https://dev.twitch.tv/docs/api/reference#get-streams>

<https://api.twitch.tv/helix/streams?first=20&game_id=21779&language=ko>



//entry is a single object returned from the /helix/streams API

begin = entry.thumbnail\_url.indexOf('live\_user\_') + 10; //10 is the length of 'live\_user\_'

end = entry.thumbnail\_url.lastIndexOf('-\{width\}');

username = entry.thumbnail\_url.slice(begin, end);

url = 'https://www.twitch.tv/' + username;

## GET <https://api.twitch.tv/helix/streams>

{

    "data": [

        {

            "id": "36490761952",

            "user\_id": "110690086",

            "user\_name": "Myth",

            "game\_id": "33214",

            "type": "live",

            "title": "Day 6 on the sticks - MERRY CHRISTMAS - Code : Myth #EpicPartner",

            "viewer\_count": 14391,

            "started\_at": "2019-12-25T06:37:36Z",

            "language": "en",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_myth-{width}x{height}.jpg",

            "tag\_ids": [

                "6ea6bca4-4712-4ab9-a906-e3336a9d8039"

            ]

        },

        {

            "id": "36490940128",

            "user\_id": "71190292",

            "user\_name": "Trainwreckstv",

            "game\_id": "509658",

            "type": "live",

            "title": "MERRY CHRISTMAS - recap, gordo, cs | !twitter | !merch",

            "viewer\_count": 13329,

            "started\_at": "2019-12-25T07:23:27Z",

            "language": "en",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_trainwreckstv-{width}x{height}.jpg",

            "tag\_ids": [

                "6ea6bca4-4712-4ab9-a906-e3336a9d8039"

            ]

        },

        {

            "id": "355486129",

            "user\_id": "57025612",

            "user\_name": "Thijs",

            "game\_id": "138585",

            "type": "live",

            "title": "SantaThijs - Top50 AFK Priest, MERRY XMAS  STREAM!🌲🎅",

            "viewer\_count": 10763,

            "started\_at": "2019-12-25T09:04:56Z",

            "language": "en",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_thijs-{width}x{height}.jpg",

            "tag\_ids": [

                "6ea6bca4-4712-4ab9-a906-e3336a9d8039",

                "b157e8d6-b7ba-49f4-836f-09886c072f1f",

                "d9f4aac9-0ca6-4181-828b-4594725bfa0c",

                "631e282e-2017-4964-b88b-d91a3ac9e356"

            ]

        },

        {

            "id": "355829537",

            "user\_id": "70075625",

            "user\_name": "SilverName",

            "game\_id": "138585",

            "type": "live",

            "title": "Start #5 EU 10814, road to 12000! Внеплановый микроток",

            "viewer\_count": 9556,

            "started\_at": "2019-12-25T11:17:55Z",

            "language": "ru",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_silvername-{width}x{height}.jpg",

            "tag\_ids": [

                "0569b171-2a2b-476e-a596-5bdfb45a1327",

                "b157e8d6-b7ba-49f4-836f-09886c072f1f",

                "631e282e-2017-4964-b88b-d91a3ac9e356"

            ]

        },

        {

            "id": "355261697",

            "user\_id": "36483360",

            "user\_name": "Zizaran",

            "game\_id": "29307",

            "type": "live",

            "title": "Ziz - HAPPY CHRISTMAS! | !MSI PC Giveaway Today 6pm GMT! <Method> | !Atlas !3.9 !Zizmas",

            "viewer\_count": 8383,

            "started\_at": "2019-12-25T05:45:46Z",

            "language": "en",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_zizaran-{width}x{height}.jpg",

            "tag\_ids": [

                "6ea6bca4-4712-4ab9-a906-e3336a9d8039"

            ]

        },

        {

            "id": "36491440704",

            "user\_id": "49045679",

            "user\_name": "우왁굳",

            "game\_id": "31750",

            "type": "live",

            "title": "8시) 크리스마스 특집 아르마3 솔로특공부대 - 인질을 구출해라",

            "viewer\_count": 7399,

            "started\_at": "2019-12-25T10:33:01Z",

            "language": "ko",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_woowakgood-{width}x{height}.jpg",

            "tag\_ids": [

                "ab2975e3-b9ca-4b1a-a93e-fb61a5d5c3a4"

            ]

        },

        {

            "id": "36491423232",

            "user\_id": "137404969",

            "user\_name": "소니쇼",

            "game\_id": "509658",

            "type": "live",

            "title": "2019 COTY 소니쇼 최고의 게임",

            "viewer\_count": 6581,

            "started\_at": "2019-12-25T10:25:03Z",

            "language": "ko",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_sonycast\_-{width}x{height}.jpg",

            "tag\_ids": [

                "ab2975e3-b9ca-4b1a-a93e-fb61a5d5c3a4"

            ]

        },

        {

            "id": "36491074272",

            "user\_id": "102845970",

            "user\_name": "김도",

            "game\_id": "32959",

            "type": "live",

            "title": "-히-",

            "viewer\_count": 6485,

            "started\_at": "2019-12-25T08:04:08Z",

            "language": "ko",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_kimdoe-{width}x{height}.jpg",

            "tag\_ids": [

                "ab2975e3-b9ca-4b1a-a93e-fb61a5d5c3a4"

            ]

        },

        {

            "id": "36490599696",

            "user\_id": "131925215",

            "user\_name": "김진우",

            "game\_id": "509658",

            "type": "live",

            "title": "[지누]",

            "viewer\_count": 6307,

            "started\_at": "2019-12-25T06:01:57Z",

            "language": "ko",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_jinu6734-{width}x{height}.jpg",

            "tag\_ids": [

                "ab2975e3-b9ca-4b1a-a93e-fb61a5d5c3a4"

            ]

        },

        {

            "id": "36491427408",

            "user\_id": "29506118",

            "user\_name": "超負荷",

            "game\_id": "21779",

            "type": "live",

            "title": "FW 超負荷 開一下",

            "viewer\_count": 6202,

            "started\_at": "2019-12-25T10:26:52Z",

            "language": "zh",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_sam1268-{width}x{height}.jpg",

            "tag\_ids": [

                "74c92063-a389-4fd2-8460-b1bb82b04ec7"

            ]

        },

        {

            "id": "355621105",

            "user\_id": "30816637",

            "user\_name": "AdmiralBulldog",

            "game\_id": "29595",

            "type": "live",

            "title": "RIP VOICE 🎅 🎁 Only christmas songs today 🎄 | 👉 !raffle !glhf || [A] @AdmiralBulldog",

            "viewer\_count": 5639,

            "started\_at": "2019-12-25T10:04:47Z",

            "language": "en",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_admiralbulldog-{width}x{height}.jpg",

            "tag\_ids": [

                "6ea6bca4-4712-4ab9-a906-e3336a9d8039"

            ]

        },

        {

            "id": "36491481552",

            "user\_id": "130433306",

            "user\_name": "케인",

            "game\_id": "509658",

            "type": "live",

            "title": "[케인] 김희철, 도티  독거노인 가정방문",

            "viewer\_count": 5272,

            "started\_at": "2019-12-25T10:51:57Z",

            "language": "ko",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_kanetv8-{width}x{height}.jpg",

            "tag\_ids": [

                "ab2975e3-b9ca-4b1a-a93e-fb61a5d5c3a4"

            ]

        },

        {

            "id": "36491446960",

            "user\_id": "137687203",

            "user\_name": "녹두로",

            "game\_id": "511399",

            "type": "live",

            "title": "크리스마스 특집 서서담",

            "viewer\_count": 5224,

            "started\_at": "2019-12-25T10:35:49Z",

            "language": "ko",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_nokduro-{width}x{height}.jpg",

            "tag\_ids": [

                "ab2975e3-b9ca-4b1a-a93e-fb61a5d5c3a4"

            ]

        },

        {

            "id": "36489550432",

            "user\_id": "92371909",

            "user\_name": "플러리",

            "game\_id": "511399",

            "type": "live",

            "title": "슈마메 S+ 가는 방송",

            "viewer\_count": 5085,

            "started\_at": "2019-12-25T02:54:44Z",

            "language": "ko",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_flurry1989-{width}x{height}.jpg",

            "tag\_ids": [

                "ab2975e3-b9ca-4b1a-a93e-fb61a5d5c3a4"

            ]

        },

        {

            "id": "36491176432",

            "user\_id": "47711988",

            "user\_name": "OGN",

            "game\_id": "461067",

            "type": "live",

            "title": "[OGN] LG UltraGear OSL FUTURES Phase2 TEKKEN 7 - 팀전 B조",

            "viewer\_count": 4961,

            "started\_at": "2019-12-25T08:41:51Z",

            "language": "ko",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_ogn-{width}x{height}.jpg",

            "tag\_ids": [

                "ab2975e3-b9ca-4b1a-a93e-fb61a5d5c3a4"

            ]

        },

        {

            "id": "355444865",

            "user\_id": "166279350",

            "user\_name": "Loeya",

            "game\_id": "33214",

            "type": "live",

            "title": "Merry Christmas! New alerts + Giveaways every hour! - !MERCH",

            "viewer\_count": 4819,

            "started\_at": "2019-12-25T08:40:43Z",

            "language": "en",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_loeya-{width}x{height}.jpg",

            "tag\_ids": [

                "6ea6bca4-4712-4ab9-a906-e3336a9d8039"

            ]

        },

        {

            "id": "36490913680",

            "user\_id": "60216187",

            "user\_name": "SimCopter1",

            "game\_id": "490744",

            "type": "live",

            "title": "Happy Christmas Eve and Third Night of Hanukkah ❤️",

            "viewer\_count": 4684,

            "started\_at": "2019-12-25T07:16:05Z",

            "language": "en",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_simcopter1-{width}x{height}.jpg",

            "tag\_ids": [

                "6ea6bca4-4712-4ab9-a906-e3336a9d8039"

            ]

        },

        {

            "id": "36490459920",

            "user\_id": "27934574",

            "user\_name": "SirhcEz",

            "game\_id": "21779",

            "type": "live",

            "title": "conqueror mundo holy crazy !porofessor | SirhcEz cafe & chill | #LeaguePartner",

            "viewer\_count": 4595,

            "started\_at": "2019-12-25T05:34:27Z",

            "language": "en",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_sirhcez-{width}x{height}.jpg",

            "tag\_ids": [

                "6ea6bca4-4712-4ab9-a906-e3336a9d8039"

            ]

        },

        {

            "id": "36488471408",

            "user\_id": "12338326",

            "user\_name": "FORMAL",

            "game\_id": "512710",

            "type": "live",

            "title": "Best POV Worldwide!! #T2P",

            "viewer\_count": 4307,

            "started\_at": "2019-12-24T23:24:31Z",

            "language": "en",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_formal-{width}x{height}.jpg",

            "tag\_ids": [

                "6ea6bca4-4712-4ab9-a906-e3336a9d8039"

            ]

        },

        {

            "id": "36491101888",

            "user\_id": "25236843",

            "user\_name": "狂暴小建",

            "game\_id": "32982",

            "type": "live",

            "title": "【小建】陪你過聖誕",

            "viewer\_count": 4146,

            "started\_at": "2019-12-25T08:13:57Z",

            "language": "zh",

            "thumbnail\_url": "https://static-cdn.jtvnw.net/previews-ttv/live\_user\_a541021-{width}x{height}.jpg",

            "tag\_ids": [

                "74c92063-a389-4fd2-8460-b1bb82b04ec7"

            ]

        }

    ],

    "pagination": {

        "cursor": "ZXlKeklqb3hORE01TVM0NE9EWXhPVFF5TmpFME5qSXNJbVFpT21aaGJITmxMQ0owSWpwMGNuVmxmUT09IGV5SnpJam8wTVRRMkxqYzNNVGN6TURZM056SXpOU3dpWkNJNlptRnNjMlVzSW5RaU9uUnlkV1Y5"

    }

}

# Get Streams Metadata

<https://dev.twitch.tv/docs/api/reference#get-streams-metadata>

## GET <https://api.twitch.tv/helix/streams/metadata>

{

    "data": [

        {

            "user\_id": "110690086",

            "user\_name": "Myth",

            "game\_id": "33214",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "71190292",

            "user\_name": "Trainwreckstv",

            "game\_id": "509658",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "57025612",

            "user\_name": "Thijs",

            "game\_id": "138585",

            "overwatch": null,

            "hearthstone": {

                "broadcaster": {

                    "hero": {

                        "type": "Alternate hero",

                        "class": "Priest",

                        "name": "Tyrande Whisperwind"

                    }

                },

                "opponent": {

                    "hero": {

                        "type": "Classic hero",

                        "class": "Rogue",

                        "name": "Valeera Sanguinar"

                    }

                }

            }

        },

        {

            "user\_id": "70075625",

            "user\_name": "SilverName",

            "game\_id": "138585",

            "overwatch": null,

            "hearthstone": {

                "broadcaster": {

                    "hero": {

                        "type": "Classic hero",

                        "class": "Priest",

                        "name": "Anduin Wrynn"

                    }

                },

                "opponent": {

                    "hero": null

                }

            }

        },

        {

            "user\_id": "36483360",

            "user\_name": "Zizaran",

            "game\_id": "29307",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "49045679",

            "user\_name": "우왁굳",

            "game\_id": "31750",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "137404969",

            "user\_name": "소니쇼",

            "game\_id": "509658",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "102845970",

            "user\_name": "김도",

            "game\_id": "32959",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "131925215",

            "user\_name": "김진우",

            "game\_id": "509658",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "29506118",

            "user\_name": "超負荷",

            "game\_id": "21779",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "30816637",

            "user\_name": "AdmiralBulldog",

            "game\_id": "29595",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "130433306",

            "user\_name": "케인",

            "game\_id": "509658",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "137687203",

            "user\_name": "녹두로",

            "game\_id": "511399",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "92371909",

            "user\_name": "플러리",

            "game\_id": "511399",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "47711988",

            "user\_name": "OGN",

            "game\_id": "461067",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "166279350",

            "user\_name": "Loeya",

            "game\_id": "33214",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "60216187",

            "user\_name": "SimCopter1",

            "game\_id": "490744",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "27934574",

            "user\_name": "SirhcEz",

            "game\_id": "21779",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "12338326",

            "user\_name": "FORMAL",

            "game\_id": "512710",

            "overwatch": null,

            "hearthstone": null

        },

        {

            "user\_id": "25236843",

            "user\_name": "狂暴小建",

            "game\_id": "32982",

            "overwatch": null,

            "hearthstone": null

        }

    ],

    "pagination": {

        "cursor": "ZXlKeklqb3hORE01TVM0NE9EWXhPVFF5TmpFME5qSXNJbVFpT21aaGJITmxMQ0owSWpwMGNuVmxmUT09IGV5SnpJam8wTVRRMkxqYzNNVGN6TURZM056SXpOU3dpWkNJNlptRnNjMlVzSW5RaU9uUnlkV1Y5"

    }

}

# 동작 순서.

1. GET Top Games 메서드 호출하여 top 20 게임들 {name : id}으로 저장
2. 사용자 발화와 일치하는 게임명 key 값이 있는지 확인하고, 있으면 해당 게임의 ID와 language 값으로 GET Get Streams 메서드 호출하여 live 방송 response 얻기  
   thumbnail\_url 에서 live\_user\_name 추출하고 ‘https://www.twitch.tv/’ url 뒤에 붙여서 바로가기 만들기, 썸네일 크기 숫자도 임의 지정하기   
   {게임 id: response에 link생성 후 string으로 변환하여 저장 }
3. 입력받은 게임의 id 저장한 값으로 로컬 storage에서 값 읽어와서 화면에 썸네일 이미지(링크 연결), 밑에 title명, user\_name, viewer\_count 정보 출력



<https://stackoverflow.com/questions/2010892/storing-objects-in-html5-localstorage>