
asynapixel

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Asyncpixel is a modern, easy to use, feature-rich, and async ready API wrapper for Hypixel.

Features:

- Modern Pythonic API using `async/await` syntax
- Easy to use with an object oriented design

INTRODUCTION!

Asyncpixel is an asynchronous python wrapper for the Hypixel api with 100% coverage. It uses Pydantic models to store the data presenting an easy to use and reliable interface.

1.1 Requirements

- Python 3.8+
- Pydantic
- Aiohttp

1.2 Installation

To install Asyncpixel, run this command in your terminal or use your favourite package manager:

```
$ pip install asyncpixel
```

1.3 Basic Example

```
import asyncpixel
import asyncio

async def main():
    hypixel = asyncpixel.Hypixel("hypixel_api_key")
    player = await hypixel.player("405dcf08b80f4e23b97d943ad93d14fd")
    print(player.stats.bedwars)
    await hypixel.close()

asyncio.run(main())
```


API REFERENCE

The following section outlines the API of `asyncpixel`.

2.1 Client

class `asyncpixel.Hypixel`(*api_key*: *Optional[Union[str, uuid.UUID]] = None*)

Client class for hypixel wrapper.

await `auction_from_player`(*player*: *str*) → *Optional[List[asyncpixel.models.auctions.AuctionItem]]*

Get auction data from player.

Parameters `player` (*str*) – player.

Returns list of auction items.

Return type *List[AuctionItem]*

await `auction_from_profile`(*profile_id*: *str*) → *Optional[List[asyncpixel.models.auctions.AuctionItem]]*

Get auction data from profile.

Parameters `profile_id` (*str*) – profile id.

Returns list of auction items.

Return type *List[AuctionItem]*

await `auction_from_uuid`(*uuid*: *Union[str, uuid.UUID]*) →

Optional[List[asyncpixel.models.auctions.AuctionItem]]

Get auction from uuid.

Parameters `uuid` (*UUID*) – minecraft uuid.

Returns list of auctions.

Return type *List[AuctionItem]*

await `auctions`(*page*: *int = 0*, *retry*: *int = 3*) → *asyncpixel.models.auctions.Auction*

Get the auctions available.

Parameters

- **page** (*int*) – Page of auction list you want. Defaults to 0.
- **retry** (*int*) – Amount of retries to get the data from the api Defaults to 3.

Returns Auction object.

Return type *Auction*

await bazaar() → *asynapixel.models.bazaar.Bazaar*

Get info of the items in the bazaar.

Returns object for bazaar.

Return type *Bazaar*

await boosters() → *asynapixel.models.booster.Boosters*

Get the current online boosters.

Returns object containing boosters.

Return type *Boosters*

await close() → *None*

Used for safe client cleanup.

await game_count() → *asynapixel.models.game_count.GameCounts*

Gets number of players per game.

Returns game counts.

Return type *GameCounts*

await guild_by_id(guild_id: str) → *Optional[asynapixel.models.guild.Guild]*

Get guild by id.

Parameters **guild_id** (*str*) – id of guild.

Returns guild object.

Return type *Guild*

await guild_by_name(guild_name: str) → *Optional[asynapixel.models.guild.Guild]*

Get guild by name.

Parameters **guild_name** (*str*) – name of guild.

Returns guild object.

Return type *Guild*

await guild_by_player(player_uuid: Union[str, uuid.UUID]) → *Optional[asynapixel.models.guild.Guild]*

Get guild by player.

Parameters **player_uuid** (*UUID*) – uuid of a player in the guild.

Returns guild object.

Return type *Guild*

await key_data(key: Optional[str] = None) → *asynapixel.models.key.Key*

Get information about an api key.

Parameters **key** (*str*, *optional*) – api key. Defaults token provided in class.

Raises *InvalidApiKeyError* – No api key available.

Returns Key object.

Return type *Key*

await leaderboards() → Dict[str, List[asynapixel.models.leaderboards.Leaderboards]]

Get the current leaderboards.

Returns raw json response.

Return type Dict[str, Leaderboards]

await news() → List[asynapixel.models.news.News]

Get current skyblock news.

Returns List of news objects.

Return type List[News]

await player(uuid: Union[str, uuid.UUID]) → Optional[asynapixel.models.player.Player]

Get information about a player from their uuid.

Parameters **uuid** (UUID) – uuid of player.

Returns player object.

Return type Player

await player_count() → int

Get the current amount of players online.

Returns number of online players.

Return type int

await player_friends(uuid: Union[str, uuid.UUID]) → Optional[List[asynapixel.models.friends.Friend]]

Get a list of a players friends.

Parameters **uuid** (UUID) – the uuid of the player you wish to get friends from.

Returns returns a list of friend elements.

Return type List[Friend]

await player_status(uuid: Union[str, uuid.UUID]) → Optional[asynapixel.models.status.Status]

Get current online status about a player.

Parameters **uuid** (UUID) – uuid of player.

Returns Status object of player.

Return type Status

await profile(profile: str) → Optional[asynapixel.models.profile.Profile]

Get profile info of a skyblock player.

Parameters **profile** (str) – profile id of player can be gotten from running profiles.

Returns Profile if it exists

Return type Union[Profile, None]

await profiles(uuid: Union[str, uuid.UUID]) → Optional[Dict[str, asynapixel.models.profile.Profile]]

Get info on a profile.

Parameters **uuid** (UUID) – uuid of player.

Returns json response.

Return type Dict[str, Profile]

await recent_games(*uuid: Union[str, uuid.UUID]*) → Optional[List[asynapixel.models.games.Game]]

Get recent games of a player.

Parameters **uuid** (*UUID*) – uuid of player.

Returns list of recent games.

Return type List[*Game*]

await resources_achievements() → Dict[str, Any]

Get the current resources. Does not require api key.

Returns raw json response.

Return type Dict[str, Any]

await resources_challenges() → Dict[str, Any]

Get the current resources. Does not require api key.

Returns raw json response.

Return type Dict[str, Any]

await resources_guilds_achievements() → Dict[str, Any]

Get the current resources. Does not require api key.

Returns raw json response.

Return type Dict[str, Any]

await resources_guilds_permissions() → Dict[str, Any]

Get the current resources. Does not require api key.

Returns raw json response.

Return type Dict[str, Any]

await resources_quests() → Dict[str, Any]

Get the current resources. Does not require api key.

Returns raw json response.

Return type Dict[str, Any]

await resources_skyblock_collections() → Dict[str, Any]

Get the current resources. Does not require api key.

Returns raw json response.

Return type Dict[str, Any]

await resources_skyblock_skills() → Dict[str, Any]

Get the current resources. Does not require api key.

Returns raw json response.

Return type Dict[str, Any]

await uuid_from_name(*username: str*) → Optional[uuid.UUID]

Helper method to get uuid from username.

Parameters **username** (*str*) – username of player

Returns uuid of player

Return type UUID4

`await watchdog_stats()` → *asynapixel.models.watchdog.WatchDog*

Get current watchdog stats.

Returns WatchDog stats object.

Return type *WatchDog*

2.2 Models

Models for asynapixel data objects.

`class asynapixel.models.Auction(*args: Any, **kwargs: Any)`

Main auction object.

Parameters

- **page** (*int*) – Page of auction data.
- **total_pages** (*int*) – Total pages of auctions.
- **total_auctions** (*int*) – Total number of auctions.
- **last_updated** (*datetime.datetime*) – Time last updated.
- **auctions** (*List[AuctionItem]*) – List of auctions.

`class asynapixel.models.AuctionItem(*args: Any, **kwargs: Any)`

Auction model.

Parameters

- **uuid** (*UUID4*) – Id of auction.
- **auctioneer** (*UUID4*) – Id of seller.
- **profile_id** (*UUID4*) – Profile_id of seller.
- **coop** (*str*) – Amount bid.
- **start** (*datetime.datetime*) – Start time of auction.
- **end** (*datetime.datetime*) – End time of auction.
- **item_name** (*str*) – Name of auction item.
- **item_lore** (*str*) – Lore of item.
- **extra** (*str*) – extra.
- **category** (*str*) – Item category
- **tier** (*str*) – Tier of item.
- **starting_bid** (*int*) – Starting Auction bid.
- **item_bytes** (*str*) – Bytes of item.
- **claimed** (*bool*) – Whether the auction has been won.
- **claimed_bidders** (*Optional[List[UUID4]]*) – Amount bid.
- **highest_bid_amount** (*int*) – Highest amount bid.
- **bids** (*List[Bids]*) – List of bids on auction.
- **id** (*str*) – Id of auction.

- **bin** (*bool*) – Whether the auction is BIN (Buy instantly)

active() → *bool*

Return if auction is active - you can bid on it.

lowest_possible_bid() → *int*

Returns next lowest possible bid.

class `asynapixel.models.Bazaar`(*args: *Any*, **kwargs: *Any*)

Bazaar object.

Parameters

- **last_updated** (*datetime.datetime*) – Time last updated.
- **bazaar_items** (*List[BazaarItem]*) – Items in bazaar.

class `asynapixel.models.BazaarItem`(*args: *Any*, **kwargs: *Any*)

Bazaar item.

Parameters

- **product_id** (*str*) – Product id.
- **buy_summary** (*List[BazaarBuySummary]*) – List of sell summary.
- **buy_summary** – List of buy summary.
- **quick_status** (*BazaarQuickStatus*) – Quick status.

class `asynapixel.models.BazaarQuickStatus`(*args: *Any*, **kwargs: *Any*)

Bazaar quick status.

Parameters

- **product_id** (*str*) – Id of product.
- **sell_price** (*int*) – Sell price per unit.
- **sell_volume** (*float*) – Volume of sale.
- **sell_moving_week** (*int*) – Sell moving week.
- **sell_orders** (*int*) – How many orders.
- **buy_price** (*int*) – Buy price.
- **buy_volume** (*float*) – Volume of purchase.
- **buy_moving_week** (*int*) – How many orders.
- **buy_orders** (*int*) – How many orders.

class `asynapixel.models.BazaarSummary`(*args: *Any*, **kwargs: *Any*)

Bazaar object.

Parameters

- **amount** (*int*) – Amount available to buy.
- **price_per_unit** (*float*) – Price per unit.
- **orders** (*int*) – How many orders.

class asynapixel.models.**Bids**(*args: Any, **kwargs: Any)

Bid models.

Parameters

- **auction_id** (*UUID4*) – Id of auction.
- **bidder** (*UUID4*) – Id of bidder.
- **profile_id** (*UUID4*) – Profile_id of seller.
- **amount** (*str*) – Amount bid.
- **timestamp** (*datetime.datetime*) – Timestamp of bid placed.

class asynapixel.models.**Booster**(*args: Any, **kwargs: Any)

Main booster class.

Parameters

- **id** (*str*) – ID
- **purchaser_uuid** (*uuid.UUID*) – UUID of booster.
- **amount** (*int*) – Amount of boosters.
- **original_length** (*int*) – Original length of booster.
- **length** (*int*) – Length of booster.
- **game_type** (*GameType*) – Game type.
- **date_activated** (*datetime.datetime*) – Date boost activated.
- **stacked** (*Union[List[uuid.UUID], bool]*) – Wether boosters stacked.

class asynapixel.models.**Boosters**(*args: Any, **kwargs: Any)

Object containing boosters.

Parameters

- **booster_state_decrementing** (*bool*) – Wether booster state decrementing.
- **boosters** (*List[Booster]*) – List of boosters online.

class asynapixel.models.**Friend**(*args: Any, **kwargs: Any)

Friend object.

Parameters

- **id** (*bool*) – Id of friend.
- **uuid_sender** (*UUID4*) – UUID of player sending friend request.
- **uuid_receiver** (*UUID4*) – UUID of player receiving friend request.
- **started** (*datetime.datetime*) – Time players started being friends.

class asynapixel.models.**Game**(*args: Any, **kwargs: Any)

Game class.

Parameters

- **date** (*datetime.datetime*) – Time game started.
- **game_type** (*GameType*) – Game Type.
- **mode** (*Optional[str]*) – Game mode.

- **map** (*Optional[str]*) – Map the game is on.
- **ended** (*Optional[datetime.datetime]*) – Time game ended. Defaults to None.

class asynapixel.models.**GameCounts**(*args: Any, **kwargs: Any)

Game Count class.

Parameters

- **games** (*Dict[str, GameCountsGame]*) – dict of all game and their game counts.
- **player_count** (*int*) – total number of players online.

class asynapixel.models.**GameCountsGame**(*args: Any, **kwargs: Any)

Game count game.

Parameters

- **players** (*int*) – Number of players in a game.
- **uuid_sender** (*Optional[Dict[str, int]]*) – Dict of game modes and people in them.

class asynapixel.models.**GameType**(*args: Any, **kwargs: Any)

Main game class.

Parameters

- **id** (*str*) – ID
- **purchaser_uuid** (*uuid.UUID*) – UUID of booster.
- **amount** (*int*) – Amount of boosters.
- **original_length** (*int*) – Original length of booster.
- **length** (*int*) – Length of booster.
- **game_type** (*int*) – Game type.
- **date_activated** (*datetime.datetime*) – Date boost activated.
- **stacked** (*Union[List[uuid.UUID], bool]*) – Wether boosters stacked.

class asynapixel.models.**Guild**(*args: Any, **kwargs: Any)

Guild object.

Parameters

- **id** (*str*) – Guild ID.
- **created** (*datetime.datetime*) – Timestamp this guild was created at.
- **name** (*str*) – Name of guild.
- **(str name_lower)** – Priority of role.
- **description** (*str*) – Description of this guild that appears in the guild list and /g info.
- **tag** (*str*) – Tag of guild.
- **exp** (*int*) – Exp or guild.
- **members** (*List[GuildMembers]*) – Array of guild members.
- **achievements** (*Dict[str, int]*) – Guild achievements earned and the current progress.
- **ranks** (*List[Rank]*) – Array of guild ranks.
- **joinable** (*bool*) – Whether this guild can be joined using /g join.

- **legacy_ranking** (*int*) – Ranking in the number of guild coins owned in the legacy guild system (0-indexed).
- **publicly_listed** (*bool*) – Whether this guild is listed in the Guild Finder.
- **preferred_games** (*List[str]*) – This guild’s set preferred games.
- **chat_mute** (*datetime.datetime*) – Timestamp guild chat will be unmuted at, or 0 if guild chat is not muted.
- **guild_exp_by_game_type** (*Dict[str, str]*) – Amount of EXP earned for this guild by which game it was earned in.
- **tag_color** (*Optional[str]*) – Color of this guild’s tag, if set. Defaults to None.

class asynapixel.models.**GuildMembers**(*args: Any, **kwargs: Any)

Members in a guild.

Parameters

- **uuid** (*uuid.UUID*) – UUID of player.
- **rank** (*str*) – Rank of player.
- **joined** (*datetime.datetime*) – Time player joined guild.
- **exp_history** (*Dict[str, int]*) – Exp history of player.
- **quest_participation** (*int*) – How many quests the player has participated in.
- **muted_till** (*Optional[datetime.datetime]*) – Time player unmuted. Defaults to None.

class asynapixel.models.**InvArmor**(*args: Any, **kwargs: Any)

Armor.

Parameters

- **type** (*int*) – Type of armor.
- **data** (*str*) – Data of armor.

class asynapixel.models.**Item**(*args: Any, **kwargs: Any)

News Item.

Parameters

- **material** (*str*) – Material of article.
- **data** (*Optional[int]*) – Data.

class asynapixel.models.**Key**(*args: Any, **kwargs: Any)

Main class for key data.

Parameters

- **key** (*uuid.UUID*) – key text.
- **owner** (*uuid.UUID*) – uuid of owner.
- **limit** (*int*) – Limit of total queries.
- **queries_in_past_min** (*int*) – Queries in the past minute.
- **total_queries** (*int*) – Total queries using the key.

class `asynapixel.models.Leaderboards`(*args: Any, **kwargs: Any)

Game count game.

Parameters

- **path** (*int*) – Path.
- **prefix** (*str*) – Prefix.
- **title** (*str*) – Title of leaderboard.
- **location** (*Tuple[int, int, int]*) – Location of leaderboard in lobby.
- **count** (*int*) – Count of leaderboards.
- **leaders** (*List[uuid.UUID]*) – List of leaders on the leaderboard.

class `asynapixel.models.Members`(*args: Any, **kwargs: Any)

Member.

Parameters

- **last_save** (*datetime.datetime*) – Time last saved.
- **inv_armor** (*InvArmor*) – Armor.
- **first_join** (*datetime.datetime*) – Time first joined.
- **first_join_hub** (*Optional[datetime.datetime]*) – first joined hub.
- **stats** (*Dict[str, int]*) – Member stats.
- **objectives** (*Dict[str, Objective]*) – Objectives.
- **tutorial** (*List[str]*) – Tutorial.
- **quests** (*Dict[str, Quests]*) – Quests done.
- **coin_purse** (*Optional[int]*) – Amount of coins in purse.
- **last_death** (*datetime.datetime*) – Time last died.
- **crafted_generators** (*List[str]*) – Crafted generators.
- **visited_zones** (*Optional[List[str]]*) – Visited zones.
- **fairy_souls_collected** (*int*) – Souls collected.
- **fairy_souls** (*Optional[int]*) – Fairy souls.
- **death_count** (*Optional[int]*) – death count.
- **slayer_bosses** (*Dict[str, Dict[str, Any]]*) – Slayer bosses.
- **pets** (*List[Any]*) – Pets.

property `fairy_bonus`: `Dict[str, int]`

Bonus from fairy.

Returns Fairy bonus.

Return type `Dict[str, int]`

class `asynapixel.models.News`(*args: Any, **kwargs: Any)

News object.

Parameters

- **item** (*Item*) – News item.

- **link** (*str*) – Link to article.
- **text** (*text*) – Text of news.
- **title** (*str*) – Title of news article.

class asynapixel.models.**Objective**(*args: Any, **kwargs: Any)

Armor.

Parameters

- **status** (*str*) – Status of objective.
- **progress** (*int*) – Progress through objective.
- **completed_at** (*Optional[datetime.datetime]*) – Time completed at. Defaults to None.

class asynapixel.models.**Pattern**(*args: Any, **kwargs: Any)

Pattern.

Parameters

- **color** (*int*) – colour.
- **pattern** (*str*) – pattern.

class asynapixel.models.**Player**(*args: Any, **kwargs: Any)

Player.

Parameters

- **uuid** (*UUID4*) – uuid of user.
- **displayname** (*Optional[str]*) – Display name of user.
- **rank** (*Optional[str]*) – Rank of user
- **first_login** (*datetime.datetime*) – First login date.
- **last_login** (*Optional[datetime.datetime]*) – Most recent login date.
- **last_logout** (*Optional[datetime.datetime]*) – Last logout.
- **stats** (*Stats*) – Stats for various game types.
- **social_media** (*Optional[Social]*) – Social media accounts.
- **id** (*Optional[str]*) – id of user.
- **playername** (*Optional[str]*) – Playername.
- **known_aliases** (*Optional[List[str]]*) – known aliases.
- **known_aliases_lower** (*Optional[List[str]]*) – known aliases in lowercase.
- **achievements_one_time** (*Optional[List[str]]*) – Achievements.
- **mc_version_rp** (*Optional[str]*) – Minecraft version.
- **network_exp** (*Optional[float]*) – Network experience.
- **karma** (*Optional[int]*) – Player karma.
- **last_adsense_generate_time** (*Optional[datetime.datetime]*) – Last generate time for adsense.
- **last_claimed_reward** (*Optional[int]*) – Last claimed reward.

- **total_rewards** (*Optional[int]*) – Total rewards.
- **total_daily_rewards** (*Optional[int]*) – Total daily awards.
- **reward_streak** (*Optional[int]*) – Current reward streak.
- **reward_score** (*Optional[int]*) – Reward score.
- **reward_high_score** (*Optional[int]*) – High score for rewards.
- **friend_requests_uuid** (*Optional[List[UUID4]]*) – UUID of friend requests.
- **achievement_tracking** (*Optional[List[str]]*) – Achievement tracking.
- **achievement_points** (*Optional[int]*) – achievement points.
- **current_gadget** (*Optional[str]*) – Current equipped gadget.
- **channel** (*Optional[str]*) – Channel.
- **most_recent_game_type** (*Optional[GameType]*) – Most recent Game Type that has been played.
- **level** (*Optional[float]*) – Level of user.
- **raw** (*Dict[str, Any]*) – raw data

class asynapixel.models.Profile(*args: Any, **kwargs: Any)

Profile.

Parameters

- **profile_id** (*str*) – Id of profile
- **cute_name** (*Optional[str]*) – Cute name of profile
- **members** (*Dict[str, Members]*) – Dict of all members in profile.

class asynapixel.models.Quests(*args: Any, **kwargs: Any)

Armor.

Parameters

- **status** (*str*) – Status of quest.
- **activated_at** (*datetime.datetime*) – Time activated.
- **activated_at_sb** (*datetime.datetime*) – Time activated.
- **completed_at** (*datetime.datetime*) – Time Completed.
- **completed_at_sb** (*datetime.datetime*) – Time Completed.

class asynapixel.models.Rank(*args: Any, **kwargs: Any)

Rank.

Parameters

- **name** (*str*) – Name of rank.
- **default** (*bool*) – wether its the default.
- **created** (*int*) – Created.
- **priority** (*int*) – Priority of role.
- **tag** (*str*) – Tag of role.

class asyncpixel.models.Social(*args: Any, **kwargs: Any)

Social accounts.

Parameters

- **twitter** (*Optional[str]*) – Twitter.
- **youtube** (*Optional[str]*) – YouTube.
- **instagram** (*Optional[str]*) – Instagram.
- **twitch** (*Optional[str]*) – Twitch.
- **discord** (*Optional[str]*) – Discord.
- **hypixel_forums** (*Optional[str]*) – Hypixel Forums.

class asyncpixel.models.Stats(*args: Any, **kwargs: Any)

Game Stats.

Parameters

- **bedwars** (*Optional[Bedwars]*) – bedwars stats.
- **arcade** (*Optional[Arcade]*) – Arcade stats.
- **build_battle** (*Optional[BuildBattle]*) – Build Battle stats.
- **duels** (*Optional[Duels]*) – Duels stats.
- **battleground** (*Optional[Battleground]*) – Battleground stats.
- **hunger_games** (*Optional[HungerGames]*) – Hunger Games stats.
- **ginger_bread** (*Optional[GingerBread]*) – Ginger Bread stats.
- **paintball** (*Optional[Paintball]*) – Paintball stats.
- **quake** (*Optional[Quake]*) – Quake stats.
- **vampirez** (*Optional[VampireZ]*) – VampireZ stats.
- **tnt_games** (*Optional[TNTGames]*) – TNT Games stats.
- **uhc** (*Optional[UHC]*) – UHC stats.
- **mcgo** (*Optional[MCGO]*) – MCGO stats.
- **walls3** (*Optional[Walls3]*) – Walls3 stats.
- **walls** (*Optional[Walls]*) – Walls stats.
- **arena** (*Optional[Arena]*) – Arena stats.
- **sky_clash** (*Optional[SkyClash]*) – SkyClash stats.
- **pit** (*Optional[Pit]*) – Pit stats.
- **housing** (*Optional[Housing]*) – Housing stats.
- **legacy** (*Optional[Legacy]*) – Legacy stats.

class asyncpixel.models.Status(*args: Any, **kwargs: Any)

Status data object.

Parameters

- **online** (*bool*) – Wether player is online.
- **game_type** (*Optional[GameType]*) – Current game player is playing. Defaults to None.

- **mode** (*Optional[str]*) – Mode of current game. Defaults to None.

class asynapixel.models.**WatchDog**(*args: Any, **kwargs: Any)

Base class for watchdog.

Parameters

- **watchdog_last_minute** (*int*) – Watchdog bans in last minute.
- **staff_rolling_daily** (*int*) – Staff bans in the day.
- **watchdog_total** (*int*) – Watchdog total bans.
- **watchdog_rolling_daily** (*int*) – Watchdog bans in the day.
- **staff_total** (*int*) – Staff total bans.

2.3 Player Stats

Player Stats.

class asynapixel.models.players.**Arcade**(*args: Any, **kwargs: Any)

Arcade games stats.

Parameters **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.

class asynapixel.models.players.**Arena**(*args: Any, **kwargs: Any)

Arena games stats.

Parameters **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.

class asynapixel.models.players.**Battleground**(*args: Any, **kwargs: Any)

Battleground games stats.

Parameters **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.

class asynapixel.models.players.**Bedwars**(*args: Any, **kwargs: Any)

Bedwars Stats.

Parameters

- **kills** (*int*) – Total kills across all Bedwars gamemodes. Defaults to 0.
- **wins** (*int*) – Total wins across all Bedwars gamemodes. Defaults to 0.
- **coins** (*int*) – Total coins collected. Defaults to 0.
- **games_played** (*int*) – Number of bedwars games played. Defaults to 0.
- **final_deaths** (*int*) – Number of final deaths across all Bedwars gamemodes. Defaults to 0.
- **deaths** (*int*) – Number of deaths across all Bedwars gamemodes. Defaults to 0.
- **final_kills** (*int*) – Number of final kills across all Bedwars gamemodes. Defaults to 0.
- **losses** (*int*) – Total bedwars games lost. Defaults to 0.
- **beds_lost** (*int*) – Number of beds lost across all Bedwars gamemodes. Defaults to 0.
- **beds_broken** (*int*) – Number of beds broken across all Bedwars gamemodes. Defaults to 0.
- **winstreak** (*int*) – Current winstreak. Defaults to 0.

- **experience** (*int*) – Total bedwars experience. Defaults to 0.
- **singles** (*Optional [BedwarsGame]*) – Stats for the singles Gamemode.
- **doubles** (*Optional [BedwarsGame]*) – Stats for the doubles Gamemode.
- **triples** (*Optional [BedwarsGame]*) – Stats for the triples Gamemode.
- **quads** (*Optional [BedwarsGame]*) – Stats for the quads Gamemode.
- **four_v_four** (*Optional [BedwarsGame]*) – Stats for the four vs four Gamemode.
- **quads_ultimate** (*Optional [BedwarsGame]*) – Stats for the quads ultimate Gamemode.
- **doubles_ultimate** (*Optional [BedwarsGame]*) – Stats for the doubles ultimate Gamemode.
- **castle** (*Optional [BedwarsGame]*) – Stats for the castle Gamemode.
- **entity_attack_deaths** (*int*) – Deaths to an entity. Defaults to 0.
- **entity_attack_final_deaths** (*int*) – Final deaths to an entity. Defaults to 0.
- **fall_deaths** (*int*) – Overall fall deaths. Defaults to 0.
- **fall_final_deaths** (*int*) – Overall final fall deaths Defaults to 0.
- **projectile_deaths** (*int*) – Projectile deaths. Defaults to 0.
- **suffocation_deaths** (*int*) – Overall suffocation deaths. Defaults to 0.
- **magic_deaths** (*int*) – Overall magic deaths. Defaults to 0.
- **entity_explosion_deaths** (*int*) – Overall explosion deaths. Defaults to 0.
- **magic_final_deaths** (*int*) – Overall magic final deaths. Defaults to 0.
- **void_deaths** (*int*) – Overall void deaths. Defaults to 0.
- **void_final_death** (*int*) – Overall void final deaths. Defaults to 0.
- **fire_tick_final_death** (*int*) – Overall fire final deaths. Defaults to 0.
- **void_kills** (*int*) – Overall void kills. Defaults to 0.
- **entity_attack_kills** (*int*) – Overall entity attack kills. Defaults to 0.
- **entity_attack_final_kills** (*int*) – Overall entity attack final kills. Defaults to 0.
- **projectile_final_kills** (*int*) – Overall projectile final kills. Defaults to 0.
- **entity_explosion_kills** (*int*) – Overall entity explosion kills. Defaults to 0.
- **projectile_kills** (*int*) – Overall projectile kills. Defaults to 0.
- **fall_final_kills** (*int*) – Overall final fall kills. Defaults to 0.
- **fall_kills** (*int*) – Overall fall kills. Defaults to 0.
- **resources_collected** (*int*) – Overall resources collected. Defaults to 0.
- **iron_resources_collected** (*int*) – Overall iron resources collected. Defaults to 0.
- **diamond_resources_collected** (*int*) – Overall diamond resources collected. Defaults to 0.
- **emerald_resources_collected** (*int*) – Overall emerald resources collected. Defaults to 0.
- **items_purchased** (*int*) – Overall items purchased. Defaults to 0.

- **permanent_items_purchased** (*int*) – Overall permanent items purchased. Defaults to 0.
- **bedwars_box_rares** (*int*) – Bedwars boxes that are rare. Defaults to 0.
- **bedwars_box** (*int*) – Total Bedwars boxes. Defaults to 0.
- **chest_history_new** (*List[str]*) – Chest history. Defaults to [].
- **bedwars_box_commons** (*int*) – Total common Bedwars boxes. Defaults to 0.
- **spray_glyph_field** (*str*) – Current spray glyph. Defaults to "".
- **active_island_topper** (*str*) – Current island topper. Defaults to "".
- **active_projectile_trail** (*str*) – Current projectile trail. Defaults to "".
- **bedwars_easter_boxes** (*int*) – Bedwars easters boxes. Defaults to 0.
- **Bedwars_opened_chests** (*int*) – Total chests opened in Bedwars. Defaults to 0.
- **Bedwars_opened_rares** (*int*) – Total rare chests opened in Bedwars. Defaults to 0.
- **Bedwars_opened_commons** (*int*) – Total common chests opened in Bedwars. Defaults to 0.
- **active_npc_skin** (*str*) – Current active NPC skin. Defaults to "".
- **favourites_2** (*str*) – Favourites. Defaults to "".
- **Bedwars_opened_epics** (*int*) – Total epic chests opened in Bedwars. Defaults to 0.
- **active_death_cry** (*str*) – Equiped active death cry. Defaults to "".
- **active_kill_effect** (*str*) – Equiped kill effect. Defaults to "".
- **active_sprays** (*str*) – Equiped spray. Defaults to "".
- **active_glyph** (*str*) – Active glyph. Defaults to "".
- **selected_ultimate** (*str*) – Selected Ultimate. Defaults to "".

property beds_broken_per_lost: float

Beds broken per Beds lost.

Returns ratio between beds broken and beds lost.

Return type float

property final_kills_per_final_death: float

Final kills per final death.

Returns ratio between final kills and final deaths.

Return type float

property final_kills_per_kills: float

Final kills per normal kill.

Returns ratio between final kills and normal kills

Return type float

property level: float

Bedwars level/star.

Returns bedwars level + progress towards next level

Return type float

property win_lose: float

Wins per losses.

Returns ratio between game wins and game losses.

Return type float

class asyncpixel.models.players.BedwarsGame(*args: Any, **kwargs: Any)

Bedwars GameMode stats.

Parameters

- **items_purchased** (*int*) – Total Items purchased. Defaults to 0.
- **diamond_resources_collected** (*int*) – Total diamonds collected. Defaults to 0.
- **games_played** (*int*) – Number of games played. Defaults to 0.
- **losses** (*int*) – Games lost for this Game Mode. Defaults to 0.
- **gold_resources_collected** (*int*) – Total gold collected. Defaults to 0.
- **void_deaths** (*int*) – Deaths to the void Defaults to 0.
- **deaths** (*int*) – Total deaths. Defaults to 0.
- **winstreak** (*int*) – Current winstreak. Defaults to 0.
- **beds_lost** (*int*) – Total beds lost. Defaults to 0.
- **final_deaths** (*int*) – Total final deaths. Defaults to 0.
- **entity_attack_deaths** (*int*) – Number of deaths to an entity. Defaults to 0.
- **beds_broken** (*int*) – Beds broken. Defaults to 0.
- **entity_attack_final_deaths** (*int*) – Number of deaths to an entity. Defaults to 0.
- **fall_deaths** (*int*) – Total deaths from fall damage. Defaults to 0.
- **magic_deaths** (*int*) – Total deaths to magic. Defaults to 0.
- **permanent_items_purchased** (*int*) – Number of items that are not lost in the game purchased. Defaults to 0.
- **void_kills** (*int*) – Kills using the void. Defaults to 0.
- **kills** (*int*) – Total Total kills. Defaults to 0.
- **wins** (*int*) – Total games won. Defaults to 0.
- **void_final_deaths** (*int*) – Total final deaths to the void. Defaults to 0.
- **final_kills** (*int*) – Total final kills. Defaults to 0.

property beds_broken_per_lost: float

Beds broken per Beds lost.

Returns ratio between beds broken and lost.

Return type float

property final_kills_per_final_death: float

Final kills per final death.

Returns ratio between final kills and final deaths.

Return type float

property final_kills_per_kills: `float`

Final kills per normal kill.

Returns ratio between final kills and normal kills

Return type `float`

property win_per_lose: `float`

Wins per losses.

Returns ratio between game wins and game losses.

Return type `float`

class `asynapixel.models.players.BuildBattle(*args: Any, **kwargs: Any)`

Build Battle games stats.

Parameters

- **coins** (`int`) – Number of coins gathered in this Game Mode. Defaults to 0.
- **games_played** (`int`) – Total games played. Defaults to 0.
- **score** (`int`) – Score. Defaults to 0.

class `asynapixel.models.players.Duels(*args: Any, **kwargs: Any)`

Duels games stats.

Parameters

- **coins** (`int`) – Number of coins gathered in this Game Mode. Defaults to 0.
- **deaths** (`int`) – Totaldeaths. Defaults to 0.
- **losses** (`int`) – Games lost. Defaults to 0.
- **losses** – Games won. Defaults to 0.
- **damage_dealt** (`int`) – Damage dealt in total. Defaults to 0.
- **rounds_played** (`int`) – Number of rounds played. Defaults to 0.

class `asynapixel.models.players.GingerBread(*args: Any, **kwargs: Any)`

GingerBread games stats.

Parameters **coins** (`int`) – Number of coins gathered in this Game Mode. Defaults to 0.

class `asynapixel.models.players.Housing(*args: Any, **kwargs: Any)`

Housing games stats.

Parameters

- **coins** (`int`) – Number of coins gathered in this Game Mode. Defaults to 0.
- **total_kills** (`int`) – Total kills. Defaults to 0.
- **total_wins** (`int`) – Total wins. Defaults to 0.

class `asynapixel.models.players.HungerGames(*args: Any, **kwargs: Any)`

Hunger Games games stats.

Parameters

- **coins** (`int`) – Number of coins gathered in this Game Mode. Defaults to 0.
- **deaths** (`int`) – Total deaths. Defaults to 0.

- **damage** (*int*) – Total damage dealt. Defaults to 0.
- **wins** (*int*) – Total wins. Defaults to 0.
- **games_played** (*int*) – Total games player. Defaults to 0.

class asynapixel.models.players.**Legacy**(*args: Any, **kwargs: Any)

Legacy games stats.

Parameters

- **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.
- **total_kills** (*int*) – Total kills. Defaults to 0.
- **total_wins** (*int*) – Total wins. Defaults to 0.

class asynapixel.models.players.**MCGO**(*args: Any, **kwargs: Any)

MCGO games stats.

Parameters

- **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.
- **deaths** (*int*) – Total deaths. Defaults to 0.
- **shots_fired** (*int*) – Total shots fired. Defaults to 0.
- **round_wins** (*int*) – Total round wins. Defaults to 0.
- **bombs_planted** (*int*) – Total bombs planted. Defaults to 0.
- **game_wins_deathmatch** (*int*) – Total games won of deathmatch. Defaults to 0.
- **wins** (*int*) – Total wins. Defaults to 0.
- **kills** (*int*) – Total kills. Defaults to 0.

class asynapixel.models.players.**Paintball**(*args: Any, **kwargs: Any)

Paintball games stats.

Parameters

- **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.
- **deaths** (*int*) – Total deaths. Defaults to 0.
- **wins** (*int*) – Total wins. Defaults to 0.
- **shots_fired** (*int*) – Total shots fired. Defaults to 0.

class asynapixel.models.players.**Pit**(*args: Any, **kwargs: Any)

Pit games stats.

Parameters

- **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.
- **total_kills** (*int*) – Total kills. Defaults to 0.
- **total_wins** (*int*) – Total wins. Defaults to 0.
- **shots_fired** (*int*) – Total shots fired. Defaults to 0.

class asynapixel.models.players.**Quake**(*args: Any, **kwargs: Any)

Quake games stats.

Parameters **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.

class `asynapixel.models.players.SkyClash(*args: Any, **kwargs: Any)`

SkyClash games stats.

Parameters `card_packs` (*int*) – Card packs. Defaults to 0.

class `asynapixel.models.players.Skywars(*args: Any, **kwargs: Any)`

Skywars games stats.

Parameters

- **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.
- **games_played** (*int*) – Total games played. Defaults to 0.
- **tokens** (*int*) – Number of tokens. Defaults to 0.
- **souls** (*int*) – Souls. Defaults to 0.
- **winstreak** (*int*) – Current winstreak. Defaults to 0.
- **kills** (*int*) – Total kills. Defaults to 0.
- **deaths** (*int*) – Total deaths. Defaults to 0.
- **wins** (*int*) – Total wins Defaults to 0.
- **losses** (*int*) – Total losses. Defaults to 0.

property `kills_per_death`: `float`

Kills per deaths.

Returns ratio between kills and deaths.

Return type `float`

property `wins_per_lose`: `float`

Wins per losses..

Returns ratio between wins and losses.

Return type `float`

class `asynapixel.models.players.TNTGames(*args: Any, **kwargs: Any)`

TNT games stats.

Parameters

- **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.
- **deaths** (*int*) – Total deaths. Defaults to 0.
- **wins** (*int*) – Total wins. Defaults to 0.
- **record** (*int*) – Record. Defaults to 0.
- **winstreak** (*int*) – Current winstreak. Defaults to 0.

class `asynapixel.models.players.UHC(*args: Any, **kwargs: Any)`

UHC games stats.

Parameters `coins` (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.

class `asynapixel.models.players.VampireZ(*args: Any, **kwargs: Any)`

VampireZ games stats.

Parameters

- **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.
- **human_deaths** (*int*) – Total deaths as a human. Defaults to 0.
- **vampire_deaths** (*int*) – Total deaths as a vampire. Defaults to 0.
- **zombie_kills** (*int*) – Total kills of a zombie. Defaults to 0.
- **vampire_kills** (*int*) – Total kills of a vampire. Defaults to 0.
- **most_vampire_kills_new** (*int*) – Most Vampire kills Defaults to 0.

class asynapixel.models.players.Walls(*args: Any, **kwargs: Any)

Walls games stats.

Parameters

- **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.
- **losses** (*int*) – Games lost. Defaults to 0.
- **deaths** (*int*) – Total deaths. Defaults to 0.

class asynapixel.models.players.Walls3(*args: Any, **kwargs: Any)

Walls3 games stats.

Parameters

- **coins** (*int*) – Number of coins gathered in this Game Mode. Defaults to 0.
- **losses** (*int*) – Games lost. Defaults to 0.
- **deaths** (*int*) – Total deaths. Defaults to 0.

2.4 Utils

Utils.

asynapixel.utils.calc_player_level(xp: Union[float, int]) → float

Calculate player level from xp.

Parameters **xp** (*int*) – amount of xp a player has.

Returns current level of player.

Return type float

asynapixel.utils.get_rank(package_rank: Optional[str] = None, rank: Optional[str] = None, prefix_raw: Optional[str] = None, monthly_package_rank: Optional[str] = None, new_package_rank: Optional[str] = None) → Optional[str]

Get rank of Hypixel player.

Parameters

- **rank** (*Optional[str]*) – rank
- **prefix_raw** (*Optional[str]*) – raw prefix
- **monthly_package_rank** (*Optional[str]*) – monthly package for mvp++
- **new_package_rank** (*Optional[str]*) – new rank format
- **package_rank** (*Optional[str]*) – old rank format

Returns rank

Return type Optional[str]

2.5 Exceptions

Custom exceptions for asynapixel.

exception `asynapixel.exceptions.ApiNoSuccessError`(*source: str*)

Exception raised when api has an error.

exception `asynapixel.exceptions.InvalidApiKeyError`(*message: str = 'Entered API key is not valid'*)

Exception raised when the API key is invalid.

exception `asynapixel.exceptions.RateLimitError`(*retry_after: datetime.datetime*)

Exception raised when Hypixel ratelimit is reached.

CONTRIBUTOR GUIDE

Thank you for your interest in improving this project. This project is open-source under the [GPLv3 license](#) and welcomes contributions in the form of bug reports, feature requests, and pull requests.

Here is a list of important resources for contributors:

- [Source Code](#)
- [Documentation](#)
- [Issue Tracker](#)
- [Code of Conduct](#)

3.1 How to report a bug

Report bugs on the [Issue Tracker](#).

When filing an issue, make sure to answer these questions:

- Which operating system and Python version are you using?
- Which version of this project are you using?
- What did you do?
- What did you expect to see?
- What did you see instead?

The best way to get your bug fixed is to provide a test case, and/or steps to reproduce the issue.

3.2 How to request a feature

Request features on the [Issue Tracker](#).

3.3 How to set up your development environment

You need Python 3.6+ and the following tools:

- Poetry
- Nox
- nox-poetry

Clone the submodules:

```
$ git submodule update --init
```

Install the package with development requirements:

```
$ poetry install
```

You can now run an interactive Python session, or the command-line interface:

```
$ poetry run python  
$ poetry run asynapixel
```

3.4 How to test the project

Run the full test suite:

```
$ nox
```

List the available Nox sessions:

```
$ nox --list-sessions
```

You can also run a specific Nox session. For example, invoke the unit test suite like this:

```
$ nox --session=tests
```

Unit tests are located in the `tests` directory, and are written using the `pytest` testing framework.

3.5 How to submit changes

Open a [pull request](#) to submit changes to this project.

Your pull request needs to meet the following guidelines for acceptance:

- The Nox test suite must pass without errors and warnings.
- Include unit tests. This project maintains 100% code coverage.
- If your changes add functionality, update the documentation accordingly.

Feel free to submit early, though—we can always iterate on this.

To run linting and code formatting checks before committing your change, you can install pre-commit as a Git hook by running the following command:


```
$ nox --session=pre-commit -- install
```

It is recommended to open an issue before starting work on anything. This will allow a chance to talk it over with the owners and validate your approach.

CONTRIBUTOR COVENANT CODE OF CONDUCT

4.1 Our Pledge

We as members, contributors, and leaders pledge to make participation in our community a harassment-free experience for everyone, regardless of age, body size, visible or invisible disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

We pledge to act and interact in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community.

4.2 Our Standards

Examples of behavior that contributes to a positive environment for our community include:

- Demonstrating empathy and kindness toward other people
- Being respectful of differing opinions, viewpoints, and experiences
- Giving and gracefully accepting constructive feedback
- Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience
- Focusing on what is best not just for us as individuals, but for the overall community

Examples of unacceptable behavior include:

- The use of sexualized language or imagery, and sexual attention or advances of any kind
- Trolling, insulting or derogatory comments, and personal or political attacks
- Public or private harassment
- Publishing others' private information, such as a physical or email address, without their explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

4.3 Enforcement Responsibilities

Community leaders are responsible for clarifying and enforcing our standards of acceptable behavior and will take appropriate and fair corrective action in response to any behavior that they deem inappropriate, threatening, offensive, or harmful.

Community leaders have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, and will communicate reasons for moderation decisions when appropriate.

4.4 Scope

This Code of Conduct applies within all community spaces, and also applies when an individual is officially representing the community in public spaces. Examples of representing our community include using an official e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event.

4.5 Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported to the community leaders responsible for enforcement at leon@bowie-co.nz. All complaints will be reviewed and investigated promptly and fairly.

All community leaders are obligated to respect the privacy and security of the reporter of any incident.

4.6 Enforcement Guidelines

Community leaders will follow these Community Impact Guidelines in determining the consequences for any action they deem in violation of this Code of Conduct:

4.6.1 1. Correction

Community Impact: Use of inappropriate language or other behavior deemed unprofessional or unwelcome in the community.

Consequence: A private, written warning from community leaders, providing clarity around the nature of the violation and an explanation of why the behavior was inappropriate. A public apology may be requested.

4.6.2 2. Warning

Community Impact: A violation through a single incident or series of actions.

Consequence: A warning with consequences for continued behavior. No interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, for a specified period of time. This includes avoiding interactions in community spaces as well as external channels like social media. Violating these terms may lead to a temporary or permanent ban.

4.6.3 3. Temporary Ban

Community Impact: A serious violation of community standards, including sustained inappropriate behavior.

Consequence: A temporary ban from any sort of interaction or public communication with the community for a specified period of time. No public or private interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, is allowed during this period. Violating these terms may lead to a permanent ban.

4.6.4 4. Permanent Ban

Community Impact: Demonstrating a pattern of violation of community standards, including sustained inappropriate behavior, harassment of an individual, or aggression toward or disparagement of classes of individuals.

Consequence: A permanent ban from any sort of public interaction within the community.

4.7 Attribution

This Code of Conduct is adapted from the Contributor Covenant, version 2.0, available at https://www.contributor-covenant.org/version/2/0/code_of_conduct.html.

Community Impact Guidelines were inspired by Mozilla's code of conduct enforcement ladder.

For answers to common questions about this code of conduct, see the FAQ at <https://www.contributor-covenant.org/faq>. Translations are available at <https://www.contributor-covenant.org/translations>.

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Version 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program—to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that

patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

“This License” refers to version 3 of the GNU General Public License.

“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”. “Licensees” and “recipients” may be individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

A “covered work” means either the unmodified Program or a work based on the Program.

To “propagate” a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

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