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# **GuessIt Documentation**

*Release 3.0.0*

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GuessIt is a python library that extracts as much information as possible from a video filename.

It has a very powerful matcher that allows to guess properties from a video using its filename only. This matcher works with both movies and tv shows episodes.

For example, GuessIt can do the following:

```
$ guessit "Treme.1x03.Right.Place,.Wrong.Time.HDTV.XviD-NoTV.avi"
For: Treme.1x03.Right.Place,.Wrong.Time.HDTV.XviD-NoTV.avi
GuessIt found: {
  "title": "Treme",
  "season": 1,
  "episode": 3,
  "episode_title": "Right Place, Wrong Time",
  "source": "HDTV",
  "video_codec": "XviD",
  "release_group": "NoTV",
  "container": "avi",
  "mimetype": "video/x-msvideo",
  "type": "episode"
}
```



# CHAPTER 1

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## Migration note

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In GuessIt 3, some properties and values were renamed in order to keep consistency and to be more intuitive.

To migrate from guessit 2.x to guessit 3.x, please read the migration page. To migrate from guessit 0.x or 1.x to guessit 2.x, please read the migration page.



## CHAPTER 2

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### Install

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Installing GuessIt is simple with `pip`:

```
$ pip install guessit
```

You can also install from sources.



GuessIt can be used from command line:

```
$ guessit
usage: guessit [-h] [-t TYPE] [-n] [-Y] [-D] [-L ALLOWED_LANGUAGES]
      [-C ALLOWED_COUNTRIES] [-E] [-T EXPECTED_TITLE] [-G EXPECTED_GROUP]
      [-f INPUT_FILE] [-v] [-P SHOW_PROPERTY] [-a] [-l] [-l] [-j] [-y]
      [-c CONFIG] [--no-embedded-config] [-p] [-V] [--version]
      [filename [filename ...]]

positional arguments:
  filename              Filename or release name to guess

optional arguments:
  -h, --help            show this help message and exit

Naming:
  -t TYPE, --type TYPE  The suggested file type: movie, episode. If undefined,
                        type will be guessed.
  -n, --name-only       Parse files as name only, considering "/" and "\" like
                        other separators.
  -Y, --date-year-first
                        If short date is found, consider the first digits as
                        the year.
  -D, --date-day-first  If short date is found, consider the second digits as
                        the day.
  -L ALLOWED_LANGUAGES, --allowed-languages ALLOWED_LANGUAGES
                        Allowed language (can be used multiple times)
  -C ALLOWED_COUNTRIES, --allowed-countries ALLOWED_COUNTRIES
                        Allowed country (can be used multiple times)
  -E, --episode-prefer-number
                        Guess "serie.213.avi" as the episode 213. Without this
                        option, it will be guessed as season 2, episode 13
  -T EXPECTED_TITLE, --expected-title EXPECTED_TITLE
                        Expected title to parse (can be used multiple times)
```

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-G EXPECTED_GROUP, --expected-group EXPECTED_GROUP
                        Expected release group (can be used multiple times)
--includes INCLUDES   List of properties to be detected
--excludes EXCLUDES   List of properties to be ignored

Input:
-f INPUT_FILE, --input-file INPUT_FILE
                        Read filenames from an input text file. File should
                        use UTF-8 charset.

Output:
-v, --verbose          Display debug output
-P SHOW_PROPERTY, --show-property SHOW_PROPERTY
                        Display the value of a single property (title, series,
                        video_codec, year, ...)
-a, --advanced         Display advanced information for filename guesses, as
                        json output
-s, --single-value     Keep only first value found for each property
-l, --enforce-list     Wrap each found value in a list even when property has
                        a single value
-j, --json             Display information for filename guesses as json
                        output
-y, --yaml             Display information for filename guesses as yaml
                        output

Configuration:
-c CONFIG, --config CONFIG
                        Filepath to the configuration file. Configuration
                        contains the same options as those command line
                        options, but option names have "-" characters replaced
                        with "_". If not defined, guessit tries to read a
                        configuration default configuration file at
                        ~/.guessit/options.(json|yaml|yml) and
                        ~/.config/guessit/options.(json|yaml|yml). Set to
                        "false" to disable default configuration file loading.
--no-embedded-config  Disable default configuration.

Information:
-p, --properties       Display properties that can be guessed.
-V, --values           Display property values that can be guessed.
--version             Display the guessit version.

```

It can also be used as a python module:

```

>>> from guessit import guessit
>>> guessit('Treme.1x03.Right.Place,.Wrong.Time.HDTV.XviD-NoTV.avi')
MatchesDict([('title', 'Treme'), ('season', 1), ('episode', 3), ('episode_title',
↳ 'Right Place, Wrong Time'), ('source', 'HDTV'), ('video_codec', 'XviD'), ('release_
↳ group', 'NoTV'), ('container', 'avi'), ('mimetype', 'video/x-msvideo'), ('type',
↳ 'episode')])

```

MatchesDict is a dict that keeps matches ordering.

Command line options can be given as dict or string to the second argument.

## CHAPTER 4

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### Advanced Configuration

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Find more about Guessit advanced configuration at [advanced configuration page](#).



## CHAPTER 5

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### REST API

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A REST API will be available soon . . .

Sources are available in a dedicated [guessit-rest repository](#).



## CHAPTER 6

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### Support

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This project is hosted on [GitHub](#). Feel free to open an issue if you think you have found a bug or something is missing in guessit.

GuessIt relies on [Rebulk](#) project for pattern and rules registration.



## CHAPTER 7

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### License

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GuessIt is licensed under the LGPLv3 license.