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# **ukpostcodevalidator Documentation**

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This library validates the uk postal code based on the formating rules found on this article [https://en.wikipedia.org/wiki/Postcodes\\_in\\_the\\_United\\_Kingdom#Formatting](https://en.wikipedia.org/wiki/Postcodes_in_the_United_Kingdom#Formatting)



# CHAPTER 1

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## Installation

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You can install *ukpostcodevalidator* using pip:

```
pip install ukpostcodevalidator
```





## CHAPTER 2

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### Usage

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To validate the postal code for UK just invoke the validate method on the Uk class as show below:

```
>>> from ukpostcodevalidator import validator
>>> validator.Uk.validate("AA9A 9AA")
```



## CHAPTER 3

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### Running Tests

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To run tests for the project run the following command while inside the root directory ukpostcodevalidator

```
py.test tests.py
```



**class** ukpostcodevalidator.validator.Uk

**classmethod** **check\_inward\_code** (*inwardcode*)

Check the validity of postal code - inward code section.

**valid if :**

- must start with a digit followed by two letters
- the letters don't use CIKMOV.

:return True/False

**classmethod** **check\_outward\_code** (*outwardcode*)

Check the validity of postal code - outward code section.

**code is a valid outward code if:**

- has two and four characters long
- The letters QVX are not used in the first position.
- The letters IJZ are not used in the second position.
- The only letters to appear in the third position are ABCDEFGHJKPSTUW when the structure starts with A9A.
- The only letters to appear in the fourth position are ABEHMNPRVWXY when the structure starts with AA9A.

:return True/False

**classmethod** **check\_postal\_code** (*postcode*)

Checks the basic structure of the code.

**checks the following patterns pass:**

- AA9A 9AA
- A9A 9AA

- A9 9AA
- A99 9AA
- AA9 9AA
- AA99 9AA

**classmethod** **validate** (*code*)

Check the validity of postal code

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