PyJSON5 Documentation

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Some helper functions to inspect `str` objects in Python 3.3 and later.

CHAPTER 1

Installation

```
$ pip install view393
```

CHAPTER 2

Description

`view393.view`(*unicode data*, *, *bool chars=False*)

Returns a memoryview of the input string.

Parameters

- **data** (*str*) – String to observe.
- **chars** (*bool*) – If the argument is truthy, then the result is casted to format `"B"`.

Returns A contiguous, readonly view on the string in native byte-order.

Return type memoryview

`view393.utf8`(*unicode data*)

Returns a memoryview of the UTF-8 representation of the input string.

Calling this function multiple times will return different memoryview object, but the observed buffer is the same, possibly reducing overhead compared to `str.encode("UTF-8")` which generates unrelated `bytes` objects.

Parameters **data** (*str*) – String to observe.

Returns A contiguous, readonly view on the string encoded as UTF-8.

Return type memoryview

`view393.kind`(*unicode data*)

Returns the "kind" of the input string.

Parameters **data** (*str*) – String to query.

Returns E.g. `Kind.ASCII` if the `all(ord(c) <= 0x7f for c in data)`.

Return type *view393.Kind*

class `view393.Kind`

A enum to describe the "kind" of an `str()`.

Enum members:

- **ASCII:** the string only contains US-ASCII data. (This includes the empty string.)the string only contains US-ASCII data. (This includes the empty string.)
- **UCS1:** the string contains some characters that are not representable in ASCII, but all characters are in Latin-1.
- **UCS2:** the string contains some characters that are not representable in Latin-1, but all characters are in the Basic Multilingual Plane.
- **UCS4:** the string contains some characters outside the Basic Multilingual Plane.

format
The applicable `struct` format. E.g. `Kind.UCS4.size == "I"`.

name
The name of this enum value. E.g. `Kind.UCS4.size == "UCS4"`.

size
The itemsize of a single character. E.g. `Kind.UCS4.size == 4`.

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