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# HexBytes Documentation

*Release 0.2.1*

**The Ethereum Foundation**

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Python *bytes* subclass that decodes hex, with a readable console output



## 1.1 hexbytes package

### 1.1.1 Quickstart

Install with:

```
pip install hexbytes
```

Example *HexBytes* usage:

```
>>> from hexbytes import HexBytes

# convert from bytes to a prettier representation at the console
>>> HexBytes(b"\x03\x08wf\xbfh\xe7\x86q\xd1\xeaCj\xe0\x87\xdat\xa1'a\xda\xc0_
↳\x01\x1a\x9e\xdd\xc4\x90\x0b\xfb;")
HexBytes('0x03087766bf68e78671d1ea436ae087da74a12761dac020011a9eddc4900bf13b')

# HexBytes accepts the hex string representation as well, ignoring case and 0x_
↳prefixes
>>> hb = HexBytes('03087766BF68E78671D1EA436AE087DA74A12761DAC020011A9EDDC4900BF13B')
HexBytes('0x03087766bf68e78671d1ea436ae087da74a12761dac020011a9eddc4900bf13b')

# get the first byte:
>>> hb[0]
3

# show how many bytes are in the value
>>> len(hb)
32

# cast back to the basic `bytes` type
>>> bytes(hb)
b"\x03\x08wf\xbfh\xe7\x86q\xd1\xeaCj\xe0\x87\xdat\xa1'a\xda\xc0_
↳\x01\x1a\x9e\xdd\xc4\x90\x0b\xfb;"
```

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## 1.1.2 HexBytes

**class** `hexbytes.main.HexBytes`

Bases: `bytes`

HexBytes is a *very* thin wrapper around the python built-in `bytes` class. It has these three changes:

1. Accepts more initializing values, like hex strings, non-negative integers, and booleans
2. Returns hex with prefix '0x' from `HexBytes.hex()`
3. The representation at console is in hex

**hex** () → str

Just like `bytes.hex()`, but prepends "0x"

## 1.2 Release Notes

### 1.2.1 HexBytes v0.2.1 (2020-06-02)

#### Features

- Officially support bytearray, int, and bool as inputs to `HexBytes`. Drop the dependency on eth-utils, for a much smaller & faster install. (#12)

### 1.2.2 v0.2.0

Released June 3, 2019

- **Breaking Changes**
  - Dropped Python3.5 support (only in name at this release, but py3.6 features will be used soon #10)
- Features
  - A slice of HexBytes will now produce another HexBytes object #9
- Maintenance
  - Added type hints #7

### 1.2.3 v0.1.0

Released Mar 1, 2018

- Marked stable
- eth-utils v1.0.1 support



### 1.2.4 v0.1.0-beta.1

Released Feb 21, 2018

- pypy3 support
- eth-utils v1-beta.2 support
- Some generic template updates

### 1.2.5 v0.1.0-beta.0

Released Jan 30, 2018

- Tested a basic integration with eth-rlp
- Given the simplicity of the project and the longer usage history in web3.py, it is reasonable to bump to beta immediately.

### 1.2.6 v0.1.0-alpha.2

Released Jan 30, 2018

- Added hypothesis tests
- Added some docs
- Update eth-utils to get all required functionality
- Passes all tests

### 1.2.7 v0.1.0-alpha.1

- Launched repository, claimed names for pip, RTD, github, etc



## CHAPTER 2

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### Indices and tables

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- genindex
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## H

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