asyncudp Documentation

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Asyncio high level UDP sockets.

Project homepage: https://github.com/eerimoq/asyncudp

Documentation: https://asyncudp.readthedocs.org/en/latest

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ONE

INSTALLATION

```
$ pip install asyncudp
```

CHAPTER

TWO

TEST

```
$ python3 -m unittest
```

CHAPTER

THREE

EXAMPLES

3.1 Client

```
import asyncio
import asyncudp

async def main():
    sock = await asyncudp.create_socket(remote_addr=('127.0.0.1', 9999))
    sock.sendto(b'Hello!')
    print(await sock.recvfrom())
    sock.close()

asyncio.run(main())
```

3.2 Server

```
import asyncio
import asyncudp

async def main():
    sock = await asyncudp.create_socket(local_addr=('127.0.0.1', 9999))

    while True:
        data, addr = await sock.recvfrom()
        print(data, addr)
        sock.sendto(data, addr)

asyncio.run(main())
```

CHAPTER

FOUR

FUNCTIONS AND CLASSES

async asyncudp.**create_socket**(*local_addr=None*, *remote_addr=None*)

Create a UDP socket with given local and remote addresses.

```
>>> sock = await asyncudp.create_socket(local_addr=('127.0.0.1', 9999))
```

class asyncudp.**Socket**(*transport*, *protocol*)

A UDP socket. Use *create_socket()* to create an instance of this class.

close()

Close the socket.

sendto(*data*, *addr=None*)

Send given packet to given address `addr`. Sends to `remote_addr` given to the constructor if `addr` is `None`.

```
>>> sock.sendto(b'Hi!')
```

async recvfrom()

Receive a UDP packet.

Raises ClosedError on connection error, often by calling the close() method from another task.

```
>>> data, addr = sock.recvfrom()
```

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