

```
import requests
import pandas as pd
```

▼ Ether Balance - single address

```
requests.get('https://api.etherscan.io/api?module=account&action=balance&address=0x4976a4a02f38326660d17bf34b431dc6e2eb2327&tag=latest&apikey=

{'status': '1', 'message': 'OK', 'result': '64644073539126076035958'}
```

▼ Normal Transactions List

```
data = requests.get('https://api.etherscan.io/api?module=account&action=txlist&address=0xddbd2b932c763ba5b1b7ae3b362eac3e8d40121a&startblock=
data = pd.DataFrame(data['result'])
data.tail().T
```

5		
blockNumber	101773	
timeStamp	1439827863	
hash	0x70bc1a43c9e80caae6b69fe845ba1567826413a8e42d...	0xf0ee803e14i
nonce	5	
blockHash	0xe802363e95a7e4700058c64f308ff726eba63ec7a400...	0x4b55bddbcea
transactionIndex	5	
from	0x1a56a50c378d21d0aa544ed9a482300c7f6e78ec	0xddbd2t
to	0xddbd2b932c763ba5b1b7ae3b362eac3e8d40121a	0xc987f
value	845125590000000000000000	
gas	21000	
gasPrice	100000000000	
isError	0	
txreceipt_status		
input	0x	
contractAddress		
cumulativeGasUsed	126000	
gasUsed	21000	
confirmations	16872762	
methodId	0x	
functionName		

▼ ERC20 Token transfer events

```
erc20 = pd.DataFrame(requests.get('https://api.etherscan.io/api?module=account&action=tokenx&contractaddress=0x9f8f72aa9304c8b593d555f12ef65
erc20.head().T
```

0		
blockNumber	4730207	
timeStamp	1513240363	
hash	0xe8c208398bd5ae8e4c237658580db56a2a94dfa0ca38...	0x9c82e89b7f6i
nonce	406	
blockHash	0x022c5e6a3d2487a8ccf8946a2ffb74938bf8e5c8a3f6...	0x87a4d04a6dE
from	0x642ae78fafbb8032da552d619ad43f1d81e4dd7c	0x4e833f
contractAddress	0x9f8f72aa9304c8b593d555f12ef6589cc3a579a2	0x9f8f7
to	0x4e83362442b8d1bec281594cea3050c8eb01311c	0x69076e
value	5901522149285533025181	
tokenName	Maker	
tokenSymbol	MKR	
tokenDecimal	18	
transactionIndex	81	
gas	940000	

Contracts

```
requests.get('https://api.etherscan.io/api?module=contract&action=getabi&address=0xBB9bc244D798123fDe783fCc1C72d3Bb8C189413&apikey=A1C15S3AXQ
```

```
'[{"constant":true,"inputs":[{"name":"","type":"uint256"}],"name":"proposals","outputs":[{"name":"recipient","type":"address"}, {"name":"amount","type":"uint256"}, {"name":"description","type":"string"}, {"name":"votingDeadline","type":"uint256"}, {"name":"open","type":"bool"}, {"name":"proposalPassed","type":"bool"}, {"name":"proposalHash","type":"bytes32"}, {"name":"proposalDeposit","type":"uint256"}, {"name":"newCurator","type":"bool"}, {"name":"yea","type":"uint256"}, {"name":"nay","type":"uint256"}, {"name":"creator","type":"address"}],"type":"function"}, {"constant":false,"inputs":[{"name":"sender","type":"address"}, {"name":"amount","t
```

Transactions

```
requests.get('https://api.etherscan.io/api?module=transaction&action=gettxreceiptstatus&txhash=0x513c1ba0bebfb66436b5fed86ab668452b7805593c050
```

```
{'status': '1', 'message': 'OK', 'result': {'status': '1'}}
```

Block

```
requests.get('https://api.etherscan.io/api?module=block&action=getblockreward&blockno=2165403&apikey=A1C15S3AXQH7PVVDX63VVK2IBAEC5448Z').json
```

```
{'status': '1',
 'message': 'OK',
 'result': {'blockNumber': '2165403',
 'timeStamp': '1472533979',
 'blockMiner': '0x13a06d3dfe21e0db5c016c03ea7d2509f7f8d1e3',
 'blockReward': '5314181600000000000',
 'uncles': [{'miner': '0xbcdfc35b86bedf72f0cda046a3c16829a2ef41d1',
 'unclePosition': '0',
 'blockreward': '3750000000000000000'}],
 'miner': '0xd0c9855c722ff0c78f21e43aa275a5b8ea60dce',
 'unclePosition': '1',
 'blockreward': '3750000000000000000'},
 'uncleInclusionReward': '3125000000000000000'}}
```

Logs

```
logs = pd.DataFrame(requests.get('https://api.etherscan.io/api?module=logs&action=getLogs&fromBlock=379224&toBlock=latest&address=0x339901226
logs.tail().T
```

365

address	0x33990122638b9132ca29c723bdf037f1a891a70c	0x33990122
topics	[0xf63780e752c6a54a94fc52715dbc5518a3b4c3c2833...	[0xf63780e752c6a
data		
blockNumber	0x18df11	
blockHash	0x4e8ce9e93e37817c9c653f04f207f8cf822cf2b049f2...	0xb8c337586eb40c
timeStamp	0x57502078	
gasPrice	0x4a817c800	
gasUsed	0x104c2	
logIndex	0x	
transactionHash	0xe8b0588b803621a50d4eccbb71e2f9463c0d6c267e6d...	0x84d0668ff085c8
transactionIndex	0x	

▼ GETH/Parity Proxy

```
requests.get('https://api.etherscan.io/api?module=proxy&action=eth_getStorageAt&address=0x6e03d9cce9d60f3e9f2597e13cd4c54c55330cfd&position=0')

{'jsonrpc': '2.0',
 'id': 1,
 'result': '0x0000000000000000000000000000000000000000000000000000000000000000'}
```

▼ Token data

```
requests.get('https://api.etherscan.io/api?module=stats&action=tokensupply&contractaddress=0x57d90b64a1a57749b0f932f1a3395792e12e7055&apikey=')

{'status': '1', 'message': 'OK', 'result': '21265524714464'}
```

▼ Gas data

```
requests.get('https://api.etherscan.io/api?module=gastracker&action=gasestimate&gasprice=2000000000&apikey=A1C15S3AXQH7PVVDX63VVK2IBAEC5448Z')

{'status': '1', 'message': 'OK', 'result': '3615'}
```

▼ Stats

```
requests.get('https://api.etherscan.io/api?module=stats&action=ethsupply2&apikey=A1C15S3AXQH7PVVDX63VVK2IBAEC5448Z').json()

{'status': '1',
 'message': 'OK',
 'result': {'EthSupply': '1223738662178000000000000000',
 'Eth2Staking': '1120587352164414000000000',
 'BurntFees': '3050035195547082238775916'}}
```

