
LuckyBit API

Release 1.0

LuckyBit Support

January 21, 2015

1	Introduction	3
2	Example	5
3	Querying games	7
3.1	Getting all games	7
3.2	Get specific game by name	8
4	Querying bets	9
4.1	Result pagination	9
4.2	Get all bets	10
4.3	Get bets by sender address	10
4.4	Get bets by transaction id	11
4.5	Get single bet by txit:vout	12
4.6	Get bets by date	12
5	Querying keys and hashes	15
5.1	Get todays hash	15
5.2	Get hash by date	15
5.3	Get secret key by date	15
6	Contact	17

This is the API documentation for LuckyBit - <http://luckyb.it>

Introduction

The LuckyBit API allows read-only access to the LuckyBit database. It aims at facilitating the creation of tools such as betting bots, verifiers and other add-on software.

The API is a REST API using JSON as dataformat. It is available anonymously and does not require identification or authentication.

This documentation has also been published at: <https://github.com/LuckyBit/api>

Example

An example script has been published here: <https://github.com/LuckyBit/bet-verifier> This script shows how to compute the hashes of a bet in order to prove that any given bet is provably fair. The script uses this API and <http://blockchain.info> for an impartial data source.

Querying games

Allows to query for active games. There are at least four active games at any moment in time, namely *blue*, *green*, *yellow*, and *red*. A special *promo* game might be active and thus listed for special occasions. Non-active games (different multipliers, special offers etc) are not listed.

Returns a dictionary of all active games. Every game is identified by its name. It has an `address`, which is the game's associated bitcoin address, a `min_amount` and `max_amount`, which express the game's valid range for betting in bitcoin, a list of `multipliers`, ordered by rank (*rank* = 0 is in the middle and *rank* = 8 is at the border of the multiplier bar).

3.1 Getting all games

URL scheme: `http://luckyb.it/api/getgames`

Returns a dictionary of all three active games.

Example call for querying (command line):

```
curl http://luckyb.it/api/getgames
```

Example return data (JSON):

```
{
  "blue": {...},
  "green": {
    "address": "1LuckyG4tMMZf64j6ea7JhCz7sDpk6vdcS",
    "max_amount": 1.0,
    "min_amount": 0.0005,
    "multipliers": {
      "0": 0.4,
      "1": 1.0,
      "2": 1.1,
      "3": 1.2,
      "4": 1.4,
      "5": 2.0,
      "6": 3.0,
      "7": 5.0,
      "8": 22.0
    }
  },
  "yellow": {...},
  "red": {...}
}
```

3.2 Get specific game by name

URL scheme: `http://luckyb.it/api/getgamebyname/<name>`

Returns the game with the name `name`. Returns `{}` if no game by this name found.

Example call for querying (command line):

```
curl http://luckyb.it/api/getgamebyname/red
```

Example return data (JSON):

```
{
  "red": {
    "address": "1LuckyR1fFHESXYx5QK4UFzv3PEAepPMK",
    "max_amount": 0.02,
    "min_amount": 0.001,
    "multipliers": {
      "0": 0.2,
      "1": 0.2,
      "2": 0.2,
      "3": 2.0,
      "4": 4.0,
      "5": 9.0,
      "6": 24.0,
      "7": 130.0,
      "8": 999.0
    }
  }
}
```

Querying bets

Allows to query bets from LuckyBit. Only bets that have been published (i.e., displayed on the website) are listed.

In general, bets are identified by `txid:vout`, with `txid` being the transaction id and `vout` being the number of the output in the description.

Field description:

- `bet_amount`: amount of bet, in bitcoin
- `binary_string`: movement of coin in triangle encoded as *0 = left* and *1 = right*
- `created_at`: timestamp of creation
- `game_address`: address of the game the bet was sent to
- `game_name`: name of the game the bet was sent to
- `multiplier_obtained`: multiplier obtained by the bet (depends on game)
- `payout_amount`: payout amount in bitcoin
- `player_address`: address from which the bet was sent from
- `txin_id`: transaction id of bet
- `txin_vout`: vout of bet in transaction `txin_id`
- `txout_id`: id of payout transaction
- `type`: type of bet, either `VALID_BET` or `INVALID_MIN` or `INVALID_MAX`

4.1 Result pagination

Bet results are paginated, that is, at maximum LuckyBit returns 100 bets on one page of results. Developers have to select pages in order to browse through all available results.

Parameter description:

- `limit`: limit the amount of values returned (min 1, max 100)
- `page`: allows to access a certain page of the result set

In case the last page has been surpassed, LuckyBit returns an empty result set (`{}`).

Example parameters that return the results 61-70 of all bets:

```
curl http://luckyb.it/api/getbets?limit=10&page=6
```

4.2 Get all bets

URL scheme: `http://luckyb.it/api/getbets`

Gets all bets. Returns a dictionary in which bets are identified by `txid:vout`.

Example call for querying (command line):

```
curl http://luckyb.it/api/getbets
```

Example return data (JSON):

```
{
  "0a7746ffb8f4afaf06832dfd4de205ed23f85fb40adb4d71509e0520b66b4eae:0": {
    "bet_amount": 0.00528974,
    "binary_string": "1110000001110100",
    "created_at": "2014-11-25 19:16:30",
    "game_address": "1LuckyY9fRzcJre7aou7ZhWVXktxjjBb9S",
    "game_name": "yellow",
    "multiplier_obtained": 0.5,
    "payout_amount": 0.00264487,
    "player_address": "1CzpDGmLulyeEFa9qquMVpDUhNv9gKoR7S",
    "txin_id": "0a7746ffb8f4afaf06832dfd4de205ed23f85fb40adb4d71509e0520b66b4eae",
    "txin_vout": 0,
    "txout_id": "c6373983dc4f8015fb435f22a95e398fb0c85155d3e5e2363b3c8bfd1ee28785",
    "type": "VALID_BET"
  },
  [...]
}
```

4.3 Get bets by sender address

URL scheme: `http://luckyb.it/api/getbetsbyaddress/<address>`

Gets all bets sent from the specific bitcoin address `address`. Returns a dictionary in which bets are identified by `txid:vout`.

Note: You can search by substring, that is, it is sufficient to specify a part of the address you are looking for.

Note: The search is case-sensitive.

Example call for querying (command line):

```
curl http://luckyb.it/api/getbetsbyaddress/1JHP6cCrn7CzMDvMkqne77k6qUVq9DteoB
```

Example return data (JSON):

```
{
  "1aec4a5bfdf5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff:0": {
    "bet_amount": 0.001,
    "binary_string": "0100000100000000",
    "created_at": "2013-11-13 20:39:46",

```

```

    "game_address": "1LuckyG4tMMZf64j6ea7JhCz7sDpk6vdcS",
    "game_name": "green",
    "multiplier_obtained": 3,
    "payout_amount": 0.003,
    "player_address": "1JHP6cCrn7CzMDvMkqne77k6qUVq9DteoB",
    "txin_id": "1aec4a5bdfd5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff",
    "txin_vout": 0,
    "txout_id": "2554b98311479428a714ed930988e016cc93ece05ba21b64b9be9311a28854ce",
    "type": "VALID_BET"
  },
  "1aec4a5bdfd5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff:2": {...},
  "1aec4a5bdfd5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff:3": {...},
  "7b35ae0cf8e8e7a94bd845eb31947736ccca99bd83795f3b30014ad0aa14f561:0": {...},
  "c3021f1231f61e2f735c49ba6f4d9e2506a8bbb945a16e0541c29fd1ee976abd:0": {...}
}

```

4.4 Get bets by transaction id

URL scheme: `http://luckyb.it/api/getbetsbytxid/<txid>`

Gets all bets sent in a specific bitcoin transaction, identified by `txid`. Returns a dictionary in which bets are identified by `txid:vout`.

Note: You can search by substring, that is, it is sufficient to specify a part of the `txid` you are looking for.

Note: The search is case-sensitive.

Example call for querying (command line):

```
curl http://luckyb.it/api/getbetsbytxid/1aec4a5bdfd5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff
```

Example return data (JSON):

```

{
  "1aec4a5bdfd5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff:0": {
    "bet_amount": 0.001,
    "binary_string": "0100000100000000",
    "created_at": "2013-11-13 20:39:46",
    "game_address": "1LuckyG4tMMZf64j6ea7JhCz7sDpk6vdcS",
    "game_name": "green",
    "multiplier_obtained": 3,
    "payout_amount": 0.003,
    "player_address": "1JHP6cCrn7CzMDvMkqne77k6qUVq9DteoB",
    "txin_id": "1aec4a5bdfd5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff",
    "txin_vout": 0,
    "txout_id": "2554b98311479428a714ed930988e016cc93ece05ba21b64b9be9311a28854ce",
    "type": "VALID_BET"
  },
  "1aec4a5bdfd5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff:2": {...},
  "1aec4a5bdfd5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff:3": {...},
  "7b35ae0cf8e8e7a94bd845eb31947736ccca99bd83795f3b30014ad0aa14f561:0": {...},
  "c3021f1231f61e2f735c49ba6f4d9e2506a8bbb945a16e0541c29fd1ee976abd:0": {...}
}

```

4.5 Get single bet by txid:vout

URL scheme: `http://luckyb.it/api/getbetbytxidvout/<txid>:<vout>`

Gets a single bet, that is, a specific vout in a specific transaction, identified by `txid:vout`. Returns a dictionary in which bets are identified by `txid:vout`.

Note: This call gets a single bet, and is called therefore `/api/getbet` rather than `/api/getbets`

Note: The search is case-sensitive.

Example call for querying (command line):

```
curl http://luckyb.it/api/getbetbytxidvout/1aec4a5bdfdf5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff:3
```

Example return data (JSON):

```
{
  "1aec4a5bdfdf5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff:3": {
    "bet_amount": 0.001,
    "binary_string": "0100000110001011",
    "created_at": "2013-11-13 20:39:46",
    "game_address": "1LuckyR1fFHESXYx5QK4UFzv3PEAepPMK",
    "game_name": "red",
    "multiplier_obtained": 0.2,
    "payout_amount": 0.0002,
    "player_address": "1JHP6cCrn7CzMDvMkqne77k6qUVq9DteoB",
    "txin_id": "1aec4a5bdfdf5de4e40f875b4fc7b5a08d0c82e01966a718790daa519e6e80fff",
    "txin_vout": 3,
    "txout_id": "bb58d6ae2fa02a04b819bc7422d1210f32a69da25c994389bc07e9ec531aac44",
    "type": "VALID_BET"
  }
}
```

4.6 Get bets by date

URL scheme: `http://luckyb.it/api/getbetsdate/<date>`

Gets all bets sent on a specific date, identified by `date` using the format `YYYY-MM-DD`. Returns a dictionary in which bets are identified by `txid:vout`.

Example call for querying (command line):

```
curl http://luckyb.it/api/getbetsbydate/2013-12-31
```

Example return data (JSON):

```
{
  "0005a10e440fb736d307f1c275be46ad3769ff9738f726703424ea3a1aea8f62:0": {
    "bet_amount": 0.001,
    "binary_string": "1100110011111110",
    "created_at": "2013-12-31 04:25:15",
    "game_address": "1LuckyR1fFHESXYx5QK4UFzv3PEAepPMK",
    "game_name": "red",
    "multiplier_obtained": 2,
    "payout_amount": 0.002,
  }
}
```



```
    "player_address": "1Bqbu2rgJVWfw1aAw3VM98JBkNdE9Cuw4G",
    "txin_id": "0005a10e440fb736d307f1c275be46ad3769ff9738f726703424ea3a1aea8f62",
    "txin_vout": 0,
    "txout_id": "a6ca48610622db2cc1a34a0ba527008bfac5c349f4208b0cb070c6d9aa1ae30d",
    "type": "VALID_BET"
  },
  [...]
}
```

Querying keys and hashes

Allows to query secret keys and their hashes. All secret keys are strings 64 characters long. Hashes are SHA256 hashes of these strings.

5.1 Get today's hash

URL scheme: `http://luckyb.it/api/getcurrenthash`

Returns the hash of the currently used secret key, identified by the date.

Example call for querying (command line):

```
curl http://luckyb.it/api/getcurrenthash
```

Example return data (JSON):

```
{
  "2014-01-12": "1892e0e8235f470b79f1c99a9dec874ca345eb44da36b38ecb1d925981d737c8"
}
```

5.2 Get hash by date

URL scheme: `http://luckyb.it/api/gethashbydate/<date>`

Returns the hash of the day `date`, identified by the date.

Example call for querying (command line):

```
curl http://luckyb.it/api/gethashbydate/2013-11-13
```

Example return data (JSON):

```
{
  "2013-11-13": "bd1cdea0ec811eac0debfcba6c2155207ab37a4cf9c1c59981dd2e534f5962a2"
}
```

5.3 Get secret key by date

URL scheme: `http://luckyb.it/api/getkeybydate/<date>`

Returns the secret key of a specific date, identified by `date` using the format `YYYY-MM-DD`

Note: You can only query the secret keys starting from yesterday.

Example call for querying (command line):

```
curl http://luckyb.it/api/getkeybydate/2013-11-13
```

Example return data (JSON):

```
{  
  "2013-11-13": "f8cbabfe1d051eca2ee607477d35ed3271e2fd39354f09b79187c8af7694c959"  
}
```

Contact

- Follow us on Twitter: <https://twitter.com/LuckyBitGame>
- Bitcointalk support thread: <https://bitcointalk.org/index.php?topic=757624>
- LuckyBit support: support@luckyb.it