

Package ‘rIP’

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Type Package

Title Detects Fraud in Online Surveys by Tracing and Scoring IP Addresses

Version 0.1.1

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Description Takes as its input an array of IP addresses and the user's X-Key, passes these to <https://iphub.info/>, and returns a dataframe with the ip (used for merging), country code, country name, asn, isp, block, and hostname. Especially important in this is the variable ``block'', which gives a score indicating whether the IP address is likely from a server farm and should be excluded from the data. It is codes 0 if the IP is residential/unclassified (i.e. safe IP), 1 if the IP is non-residential IP (hostping provider, proxy, etc. -- should likely be excluded), and 2 for non-residential and residential IPs (more stringent, may flag innocent respondents). The recommendation from <https://iphub.info/> is to block or exclude those who score block = 1.

Imports httr, utils

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Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

NeedsCompilation no

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getIPinfo *Passes an array of IP addresses to iphub.info and returns a dataframe with details of IP*

Description

Makes a call to an IP address verification service (iphub.info) that returns the information on the IP address, including the internet service provider (ISP) and whether it is likely a server farm being used to disguise a respondent's location.

Usage

```
getIPinfo(d, "i", "key")
```

Arguments

d	Data frame where IP addresses are stored
i	Name of the vector in data frame, d, corresponding to IP addresses in quotation marks
key	User's X-key in quotation marks

Details

Takes an array of IPs and the user's X-Key, and passes these to iphub.info. Returns a dataframe with the IP address (used for merging), country code, country name, asn, isp, block, and hostname.

Value

ipDF A dataframe with the IP address, country code, country name, asn, isp, block, and hostname.

Note

Users must have an active iphub.info account with a valid X-key.

Examples

```
id <- c(1,2,3,4) # fake respondent id's
ips <- c(123.232, 213.435, 234.764, 543.765) # fake ips
data <- data.frame(id,ips)
getIPinfo(data, "ips", "MzI3NDpJcVJKSTdIdXpQSUJLQVhZY1RvRxaXFsFW3jS3xcQ")
```

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