
Pituophis Documentation

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May 18, 2020

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class `pituophis.Item` (*itype='i', text="", path='/', host="", port=0, tls=False*)

Bases: `object`

Server/Client. Represents an item in a Gopher menu.

host = None

The hostname of the target server.

path = None

Where the item links to on the target server.

port = None

The port of the target server. For regular Gopher servers, this is most commonly 70, and for S/Gopher servers it is typically 105.

request ()

Returns a Request to where the item leads.

source ()

Returns the item as a line in a Gopher menu.

text = None

The name, or text that is displayed when the item is in a menu.

tls = None

True if the item leads to an S/Gopher server with TLS enabled.

type = None

The type of item.

class `pituophis.Request` (*host='127.0.0.1', port=70, advertised_port=None, path='/', query="", itype='9', tls=False, tls_verify=True, client="", pub_dir='pub/', alt_handler=False*)

Bases: `object`

Client/Server. Represents a request to be sent to a Gopher server, or received from a client.

advertised_port = None

Server. Used by the default handler. Set this if the server itself is being hosted on another port than the advertised port (like port 70), with a firewall or some other software rerouting that port to the server's real port.

client = None

Server. The IP address of the connected client.

get ()

Client. Sends the request and returns a Response object.

host = None

Client/Server. The hostname of the server.

path = None

Client/Server. The selector string to request, or being requested.

port = None

Client/Server. The port of the server. For regular Gopher servers, this is most commonly 70, and for S/Gopher servers it is typically 105.

pub_dir = None

Server. The default handler uses this as which directory to serve. Default is 'pub/'.

query = None

Client/Server. Search query for the server to process. Omitted when blank.

stream()

Client. Lower-level fetching. Sends the request and returns a `BufferedReader`.

tls = None

Client/Server. Whether the request is to be, or was sent to an S/Gopher server over TLS.

tls_verify = None

Client. Whether to verify the certificate sent from the server, rejecting self-signed and invalid certificates.

type = None

Client. Item type of the request. Purely for client-side usage, not used when sending or receiving requests.

url()

Returns a URL equivalent to the Request's properties.

class `pituophis.Response` (*stream*)

Bases: `object`

Client. Returned by `Request.get()` and `get()`. Represents a received binary object from a Gopher server.

binary = None

The data received from the server as a `Bytes` binary object.

menu()

Decodes the binary as UTF-8 text and parses it as a Gopher menu. Returns a List of Gopher menu items parsed as the `Item` type.

text()

Returns the binary decoded as a UTF-8 String.

`pituophis.get` (*host*, *port=70*, *path='/'*, *query=""*, *tls=False*, *tls_verify=True*)

Client. Quickly creates and sends a Request. Returns a Response object.

`pituophis.handle` (*request*)

Server. Default handler function for Gopher requests while hosting a server. Serves files and directories from the `pub/` directory by default, but the path can be changed in `serve`'s `pub_dir` argument or changing the Request's `pub_dir` directory.

`pituophis.parse_gophermap` (*source*, *def_host='127.0.0.1'*, *def_port='70'*, *gophermap_dir='/'*,
pub_dir='pub/', *tls=False*)

Server. Converts a Bucktooth-style Gophermap (as a String or List) into a Gopher menu as a List of Items to send.

`pituophis.parse_menu` (*source*)

Client. Parses a String as a Gopher menu. Returns a List of Items.

`pituophis.parse_url` (*url*)

Client. Parses a Gopher URL and returns an equivalent Request.

`pituophis.serve` (*host='127.0.0.1'*, *port=70*, *advertised_port=None*, *handler=<function handle>*,
pub_dir='pub/', *alt_handler=False*, *send_period=False*, *tls=False*,
tls_cert_chain='cacert.pem', *tls_private_key='privkey.pem'*, *debug=True*)

Server. Starts serving Gopher requests. Allows for using a custom handler that will return a `Bytes`, `String`, or `List` object (which can contain either `Strings` or `Items`) to send to the client, or the default handler which can serve a directory. Along with the default handler, you can set an alternate handler to use if a 404 error is generated for dynamic applications.

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