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# Pituophis Documentation

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**May 16, 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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