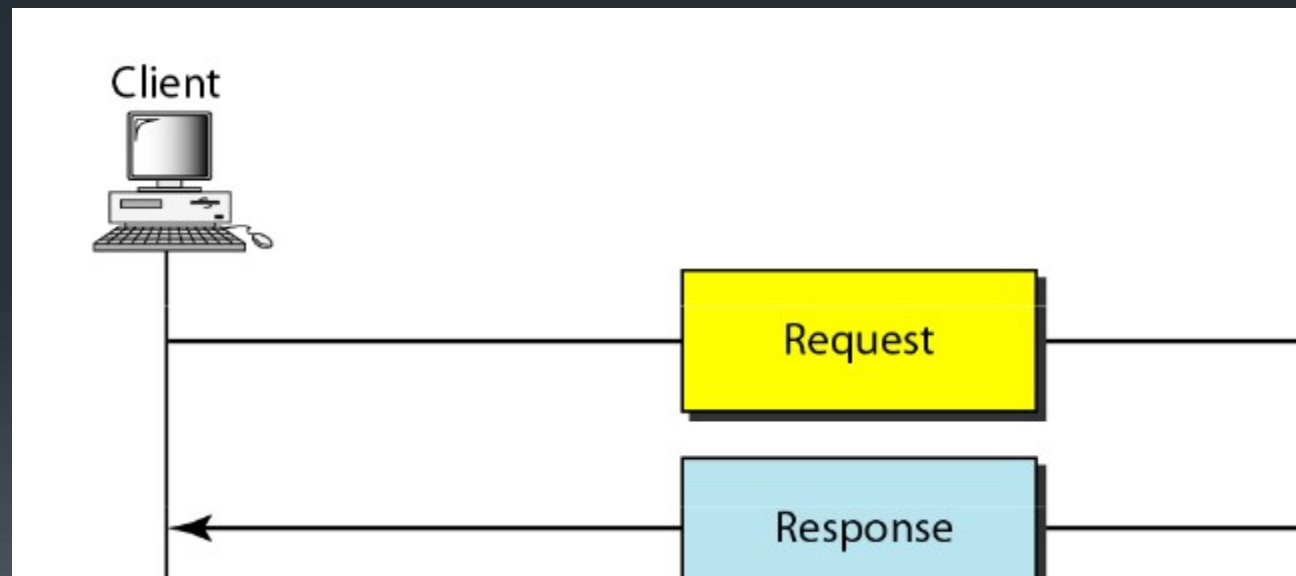




HTTP

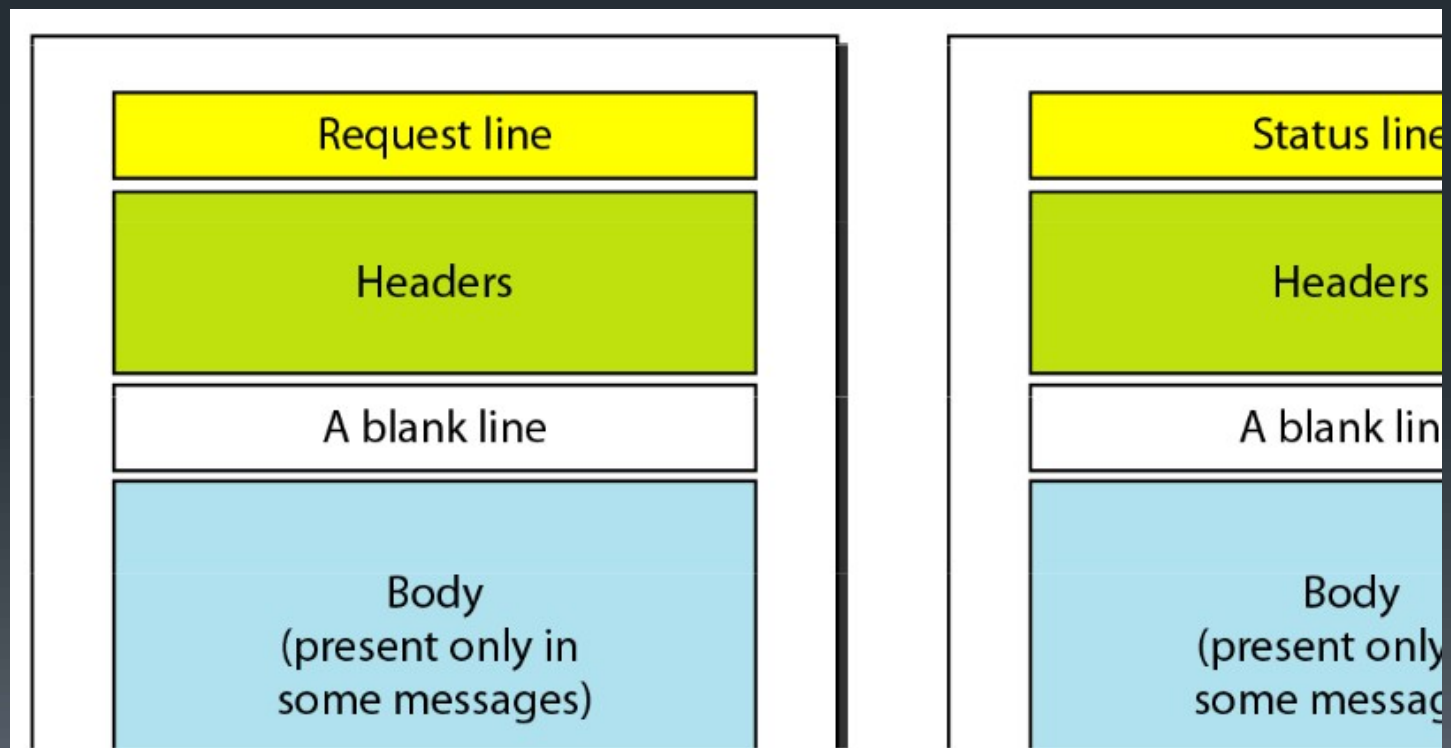




Hyper Text Transfer Protocol(HTTP)



- *Non persistent versus persistent connection*

HTTP



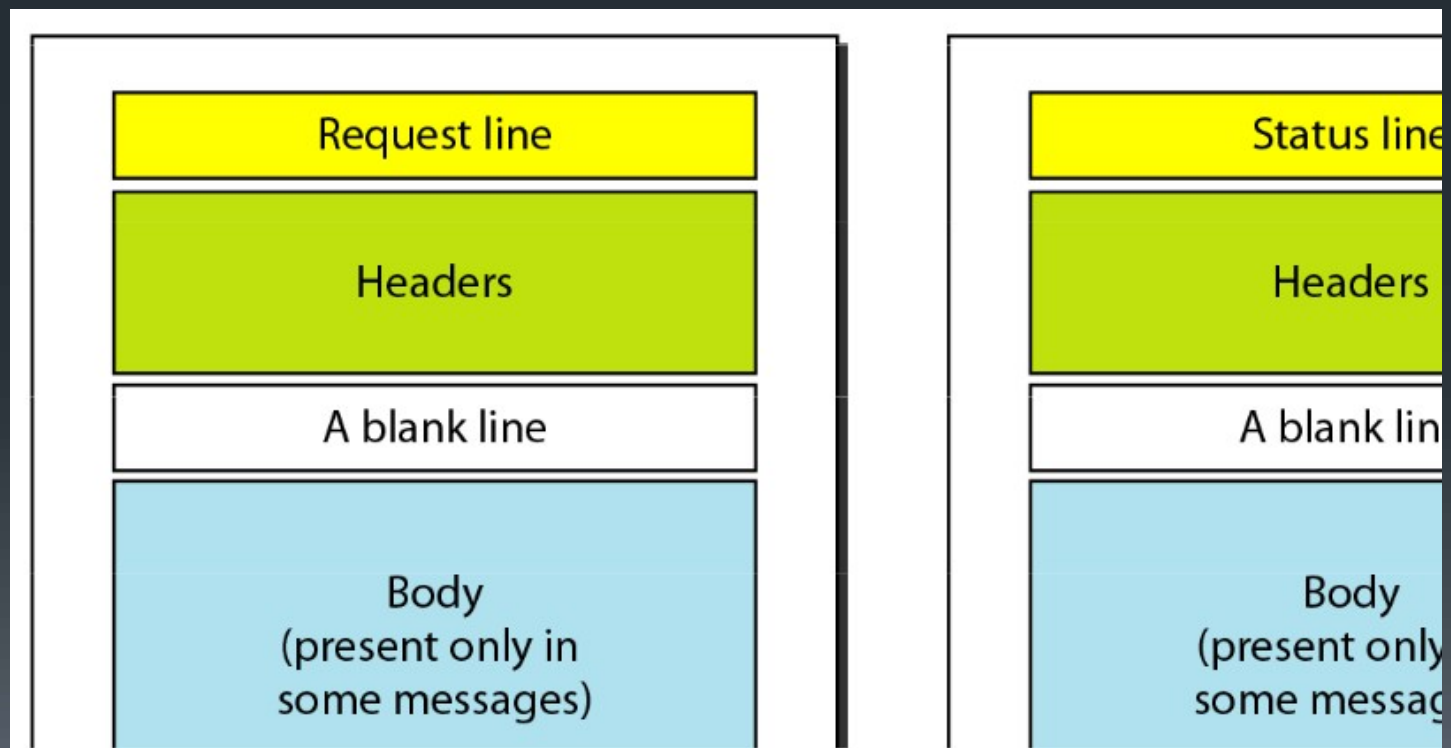


<i>Method</i>	<i>Action</i>
GET ✓	Requests a document from the server
HEAD ✓	Requests information about a document but not the d
POST	Sends some information from the client to the server
PUT	Sends a document from the server to the client
TRACE	Echoes the incoming request
CONNECT	Reserved



<i>Header</i>	<i>Description</i>
Accept ✓	Shows the medium format the client can accept
Accept-charset	Shows the character set the client can handle
Accept-encoding	Shows the encoding scheme the client can accept
Accept-language	Shows the language the client can accept
Authorization	Shows what permissions the client has
From	Shows the e-mail address of the user
Host ✓	Shows the host and port number of the server
If-modified-since	Sends the document if newer than specified
If-match	Sends the document only if it matches given
If-non-match	Sends the document only if it does not match
If-range	Sends only the portion of the document that

HTTP

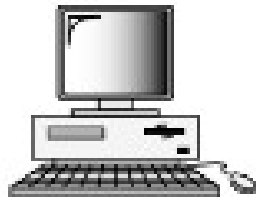




HTTP

<i>Header</i>	<i>Description</i>
Accept-range	Shows if server accepts the range requested by
Age	Shows the age of the document
Public	Shows the supported list of methods
Retry-after	Specifies the date after which the server is ava
Server	Shows the server name and version number

Client

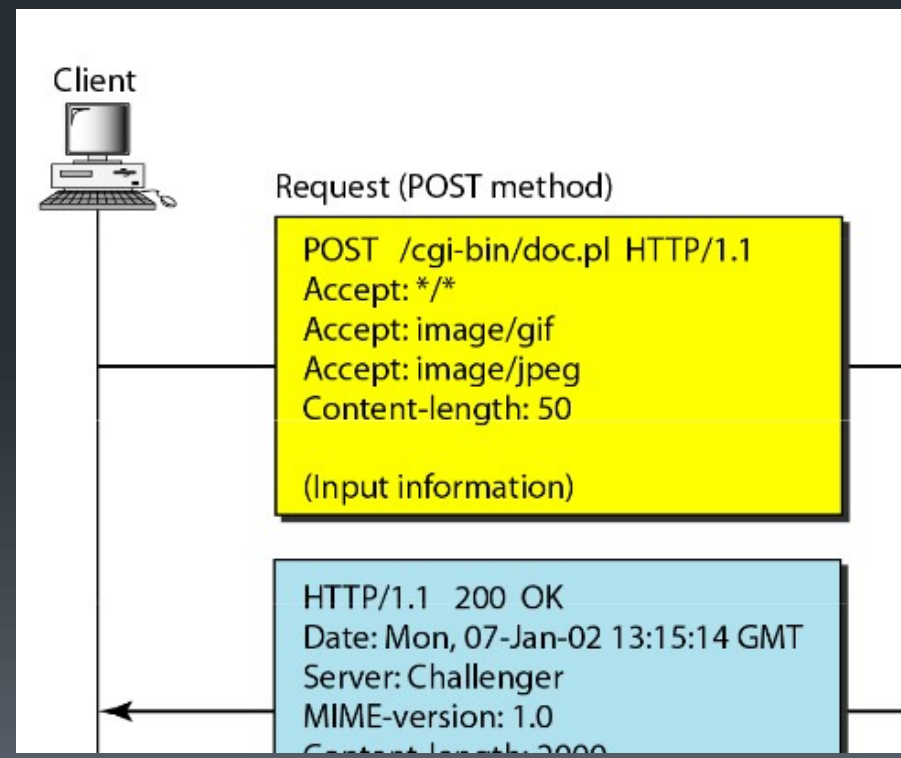


Request (GET method)

```
GET /usr/bin/image1 HTTP/1.1  
Accept: image/gif  
Accept: image/jpeg
```

```
HTTP/1.1 200 OK  
Date: Mon, 07-Jan-05 13:15:14 GMT  
Server: Challenger  
MIME-version: 1.0  
Content-length: 2048
```

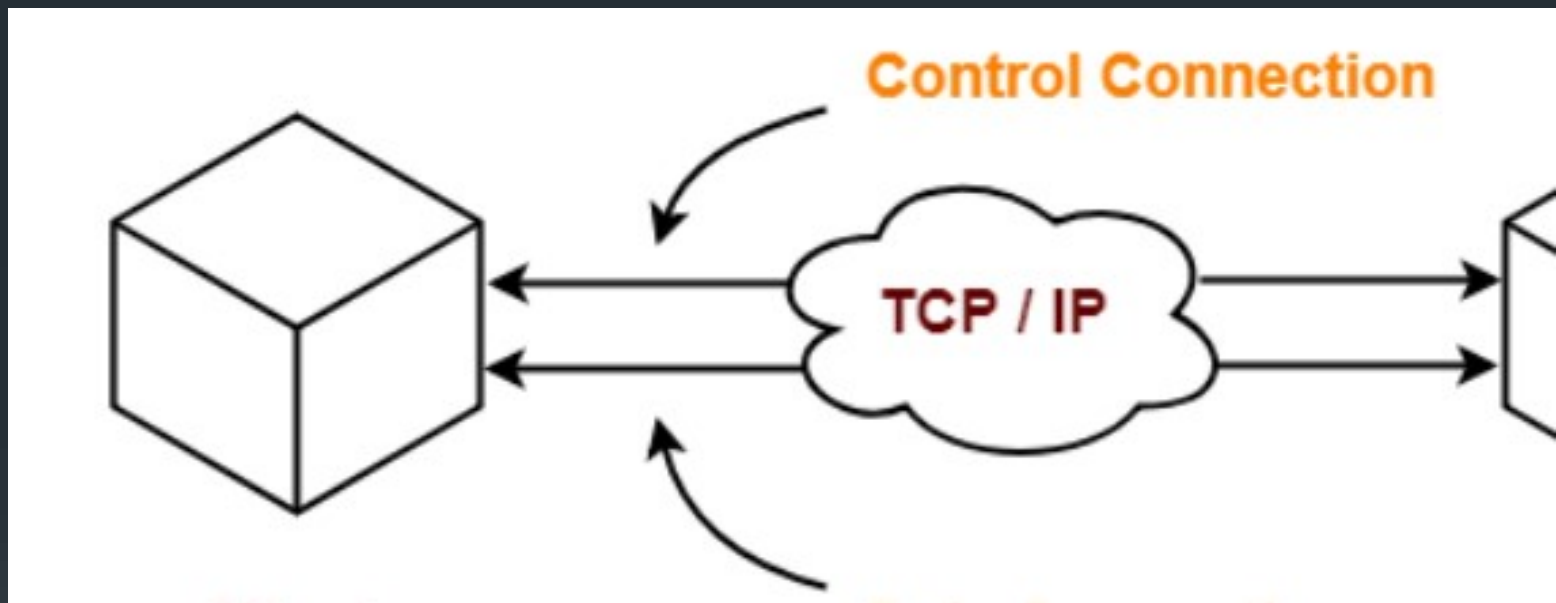
HTTP





File Transfer Protocol(FTP)

- FTP is short for **File Transfer Protocol**.
- It is an application layer protocol.
- It is used for exchanging files over the internet.
- It enables the users to upload and download the files from the internet.





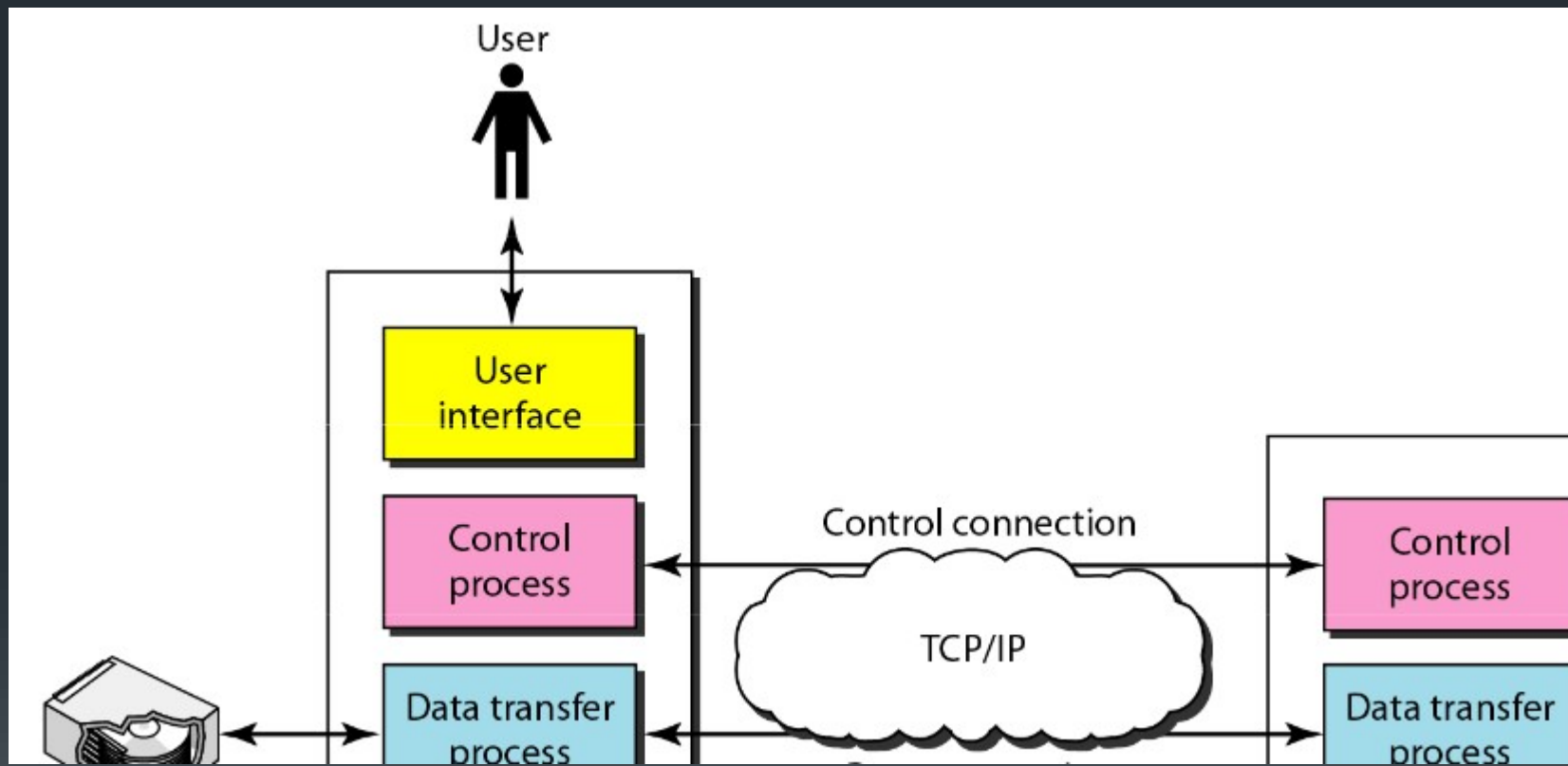
File Transfer Protocol(FTP)

- FTP uses TCP at the transport layer.
- FTP uses port number 21 for control connection.
- FTP uses port number 20 for data connection.
- FTP uses persistent TCP connections for control connection.

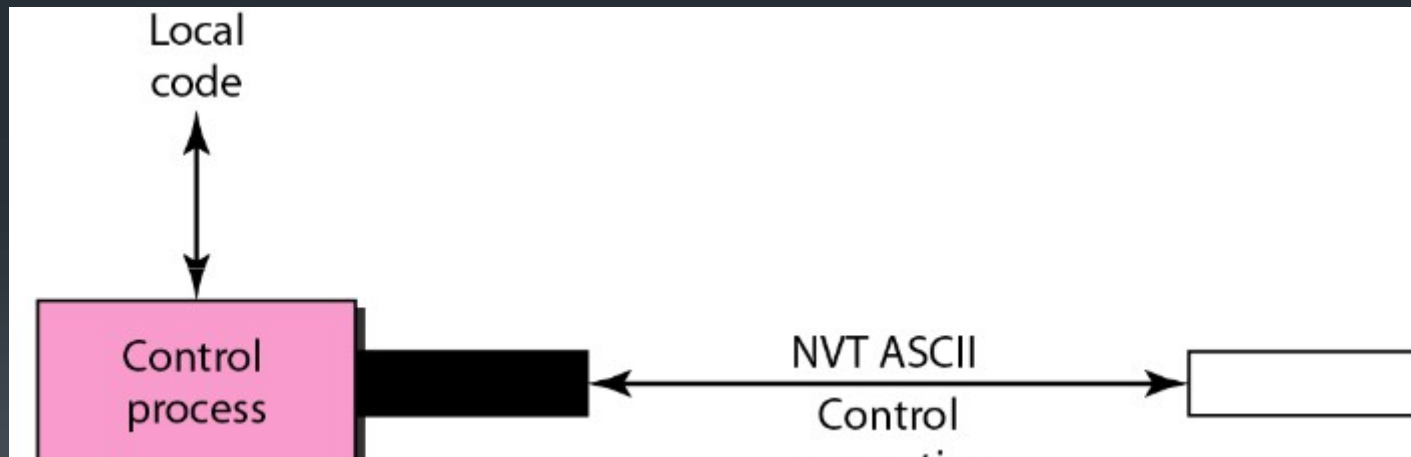


File Transfer Protocol(FTP)

- FTP uses non-persistent connections for data connection.
- FTP is a connection oriented protocol.
- FTP is an out-of-band protocol as data and control information flow over different connections.



File Transfer Protocol(FTP)



File Transfer Protocol(FTP)

