

? URLFetch

URLFetch["url"] returns the contents of a URL as a string.

URLFetch["url", elements] returns the specified elements from a URL. >>

```
urls = {"http://drorbn.net/api.php", "http://katlas.math.toronto.edu/w/api.php"};
url = urls[[2]];
username = "DrorsRobot";
Clear[password];
password := password = InputString["Password for "<>username<>": "]
```

```

{content1, cookies1} = URLFetch[url,
  {"Content", "Cookies"},
  "Parameters" -> {
    "action" -> "login",
    "format" -> "xml", "lgname" -> username, "lgpassword" -> password
  },
  "Method" -> "POST",
  "StoreCookies" -> False
];
parsedcontent = Cases[ImportString[content1, "XML"], XMLElement["login",
  {"result" -> "NeedToken", parsedcontent___}, {}] -> {parsedcontent},
  Infinity
] // First;
{content2, cookies2} = URLFetch[url,
  {"Content", "Cookies"},
  "Parameters" -> {
    "action" -> "login", "format" -> "xml",
    "lgname" -> username, "lgpassword" -> password,
    "lgtoken" -> ("token" /. parsedcontent)
  },
  "Method" -> "POST",
  "Cookies" -> cookies1,
  "StoreCookies" -> False
]
{<?xml version="1.0"?><api><login
  result="Success" lguserid="5" lgusername="DrorsRobot"
  lgtoken="8fdcea5b2577efb5d56879fe20e70a0a" cookieprefix="wikidb_mw_"
  sessionid="d512f6a5bb4a09ff9507c4bcb728db65" /></api>,
  {{Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE,
  Path -> /, Secure -> FALSE, Expires -> Thu 1 Jan 1970 00:00:00,
  Name -> wikidb_mw__session, Value -> d512f6a5bb4a09ff9507c4bcb728db65},
  {Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE,
  Path -> /, Secure -> FALSE, Expires -> Fri 24 Oct 2014 21:41:43,
  Name -> wikidb_mw_UserID, Value -> 5},
  {Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE,
  Path -> /, Secure -> FALSE, Expires -> Fri 24 Oct 2014 21:41:43,
  Name -> wikidb_mw_UserName, Value -> DrorsRobot},
  {Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE,
  Path -> /, Secure -> FALSE, Expires -> Fri 24 Oct 2014 21:41:43,
  Name -> wikidb_mw_Token, Value -> 8fdcea5b2577efb5d56879fe20e70a0a}}}}

```

```

{content3, cookies3} = URLFetch[url,
  {"Content", "Cookies"},
  "Parameters" -> {"action" -> "tokens", "format" -> "xml"},
  "Method" -> "POST",
  "Cookies" -> cookies2,
  "StoreCookies" -> False
];
Print[{content3, cookies3}];
edittoken = Cases[ImportString[content3, "XML"],
  XMLElement["tokens", {"edittoken" -> edittoken_}, {}] -> edittoken,
  Infinity
] // First

{<?xml version="1.0"?><api><tokens
  edittoken="ff552fd476e9404ff31c0973e6fa8f1e+\ " /></api>,
  {{Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE,
  Path -> /, Secure -> FALSE, Expires -> Thu 1 Jan 1970 00:00:00,
  Name -> wikidb_mw_session, Value -> d512f6a5bb4a09ff9507c4bcb728db65},
  {Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE, Path -> /,
  Secure -> FALSE, Expires -> Fri 24 Oct 2014 21:41:43, Name -> wikidb_mw_UserID, Value -> 5},
  {Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE, Path -> /,
  Secure -> FALSE, Expires -> Fri 24 Oct 2014 21:41:43, Name -> wikidb_mw_UserName,
  Value -> DrorsRobot}, {Domain -> #HttpOnly_katlas.math.toronto.edu,
  MachineAccess -> FALSE, Path -> /, Secure -> FALSE, Expires -> Fri 24 Oct 2014 21:41:43,
  Name -> wikidb_mw-Token, Value -> 8fdcea5b2577efb5d56879fe20e70a0a}}}
ff552fd476e9404ff31c0973e6fa8f1e+\

```

```

{content4, cookies4} = URLFetch[url,
  {"Content", "Cookies"},
  "Parameters" -> {
    "action" -> "edit", "format" -> "xml",
    "title" -> "Sandbox",
    "text" -> "Robot zubi",
    "token" -> edittoken
  },
  "Method" -> "POST",
  "Cookies" -> cookies3,
  "StoreCookies" -> False
]
{<?xml version="1.0"?><api><edit result="Success" pageid="1650053"
  title="Sandbox" contentmodel="wikitext" oldrevid="1721006"
  newrevid="1721007" newtimestamp="2014-04-27T21:42:04Z" /></api>,
  {{Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE,
  Path -> /, Secure -> FALSE, Expires -> Thu 1 Jan 1970 00:00:00,
  Name -> wikidb_mw__session, Value -> d512f6a5bb4a09ff9507c4bcb728db65}},
  {Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE,
  Path -> /, Secure -> FALSE, Expires -> Fri 24 Oct 2014 21:41:43,
  Name -> wikidb_mw_UserID, Value -> 5},
  {Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE,
  Path -> /, Secure -> FALSE, Expires -> Fri 24 Oct 2014 21:41:43,
  Name -> wikidb_mw_UserName, Value -> DrorsRobot},
  {Domain -> #HttpOnly_katlas.math.toronto.edu, MachineAccess -> FALSE,
  Path -> /, Secure -> FALSE, Expires -> Fri 24 Oct 2014 21:41:43,
  Name -> wikidb_mw_Token, Value -> 8fdcea5b2577efb5d56879fe20e70a0a}}}}

```

```

URLFetch[url,
{"Content", "Cookies"},
"Parameters" -> {
  "action" -> "query", "format" -> "xml",
  "meta" -> "userinfo",
  "uiprop" -> "rights"
},
"Method" -> "GET",
"Cookies" -> cookies3,
"StoreCookies" -> False
]
(<?xml version="1.0"?><api><query><userinfo id="1"
  name="Drorbn"><rights><r>userrights</r><r>noratelimit</r><r>block</r><r>
  createaccount</r><r>delete</r><r>bigdelete</r><r>deletedhistory</r><r>
  deletedtext</r><r>undelete</r><r>editinterface</r><r>editusercss</r><r>
  edituserjs</r><r>import</r><r>importupload</r><r>move</r><r>move-subpages</r>
  <r>move-rootuserpages</r><r>patrol</r><r>autopatrol</r><r>protect</r><r>
  proxyunbannable</r><r>rollback</r><r>upload</r><r>reupload</r><r>reupload-
  shared</r><r>unwatchedpages</r><r>autoconfirmed</r><r>ipblock-exempt</r><r>
  blockemail</r><r>markbotedits</r><r>apihighlimits</r><r>browsearchive</r><r>
  movefile</r><r>unblockself</r><r>suppressredirect</r><r>read</r><r>createpage
  </r><r>createtalk</r><r>writeapi</r><r>edit</r><r>minoredit</r><r>purge</r><r>
  >sendemail</r></rights></userinfo></query></api>,
  {{Domain -> #HttpOnly_drorbn.net, MachineAccess -> FALSE,
    Path -> /, Secure -> FALSE, Expires -> Thu 1 Jan 1970 00:00:00,
    Name -> drorbn_drorbn__session, Value -> 984c36b1daf6f234e30ba2a862bd3257}},
  {Domain -> #HttpOnly_drorbn.net, MachineAccess -> FALSE, Path -> /, Secure -> FALSE,
    Expires -> Fri 24 Oct 2014 18:17:19, Name -> drorbn_drorbn_UserID, Value -> 1},
  {Domain -> #HttpOnly_drorbn.net, MachineAccess -> FALSE, Path -> /, Secure -> FALSE,
    Expires -> Fri 24 Oct 2014 18:17:19, Name -> drorbn_drorbn_UserName,
    Value -> Drorbn}, {Domain -> #HttpOnly_drorbn.net, MachineAccess -> FALSE,
    Path -> /, Secure -> FALSE, Expires -> Fri 24 Oct 2014 18:17:19,
    Name -> drorbn_drorbn_Token, Value -> b74ec88ce976287ef984fa7d2e548659}}})

(*URLFetch[url,
{"Content", "Cookies"},
"Parameters" -> {
  "action" -> "query",
  "titles" -> "Sandbox",
  "export" -> "true"
},
"Method" -> "GET",
"Cookies" -> cookies3,
"StoreCookies" -> False
]*)

```