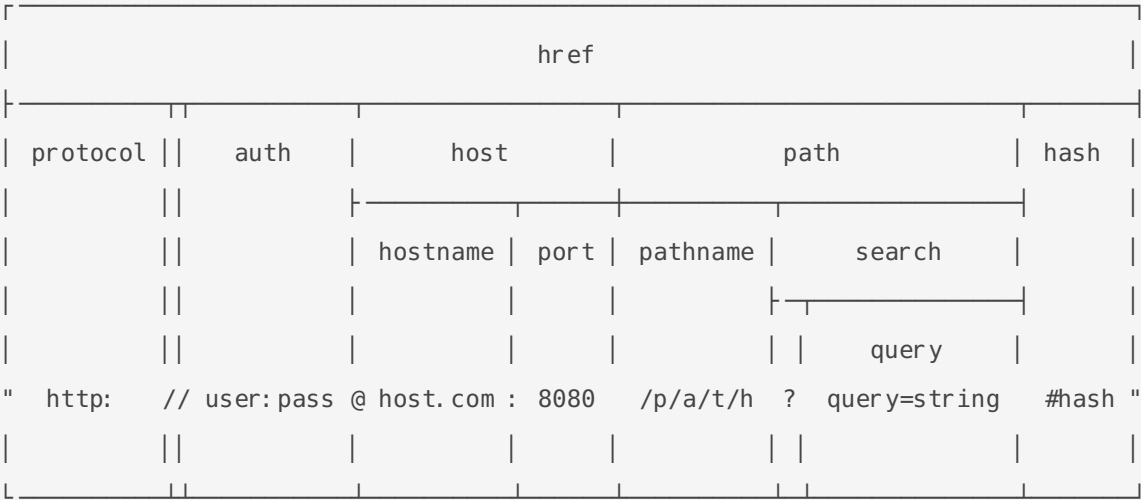


util

util

- [\[Doc \]](#) URL
- [\[Doc \]](#) Query Strings ()
- [\[Doc \]](#) Utilities ()
- [\[Basic \]](#)

URL



:

	encodeURIComponent
' '	' %20'
<	' %3C'
>	' %3E'
"	' %22'
`	' %60'
\r	' %0D'
\n	' %0A'
\t	' %09'
{	' %7B'

	encodeURIComponent
}	'%7D'
,	,
\	'%5C'
^	'%5E'
'	'%27'

?
 :

```

Array(range).fill(0)
  .map((_, i) => String.fromCharCode(i))
  .map(encodeURIComponent)

```

range255(doge

Query Strings

query string
 URL
 ,
 URL
 `querystring`
.

.parse(str[, sep[, eq[, options]]])	query string json
.unescape(str)	.parse ,
.stringify(obj[, sep[, eq[, options]]])	json query string
.escape(str)	.stringify ,

Node.js
 querystring
 .
 :

```
const qs = require('qs'); //
const querystring = require('querystring'); // Node.js

let obj = { a: { b: { c: 1 } } };

console.log(qs.stringify(obj)); // 'a%5Bb%5D%5Bc%5D=1'
console.log(querystring.stringify(obj)); // 'a='

let str = 'a%5Bb%5D%5Bc%5D=1';

console.log(qs.parse(str)); // { a: { b: { c: '1' } } }
console.log(querystring.parse(str)); // { 'a[b][c]': '1' }
```

“ HTTP GET (URL) let arr = [1,2,3,4] ?

```
const qs = require('qs');

let arr = [1,2,3,4];
let str = qs.stringify({arr});

console.log(str); // arr%5B0%5D=1&arr%5B1%5D=2&arr%5B2%5D=3&arr%5B3%5D=4
console.log(decodeURI(str)); // 'arr[0]=1&arr[1]=2&arr[2]=3&arr[3]=4'
console.log(qs.parse(str)); // { arr: [ '1', '2', '3', '4' ] }
```

`https://your.host/api/?arr[0]=1&arr[1]=2&arr[2]=3&arr[3]=4` arr

util

util.is*() v4.0.0 (deprecated), , . :

- util.debug(string)
- util.error([...strings])
- util.isArray(object)
- util.isBoolean(object)
- util.isBuffer(object)
- util.isDate(object)
- util.isError(object)
- util.isFunction(object)
- util.isNull(object)

- util.isNullOrUndefined(object)
- util.isNumber(object)
- util.isObject(object)
- util.isPrimitive(object)
- util.isRegExp(object)
- util.isString(object)
- util.isSymbol(object)
- util.isUndefined(object)
- util.log(string)
- util.print([...strings])
- util.puts([...strings])
- util._extend(target, source)

util.inherits

“ Node.js (util.inherits) ?

<https://github.com/nodejs/node/blob/v7.6.0/lib/util.js#L960>

```
/**
 * Inherit the prototype methods from one constructor into another.
 *
 * The Function.prototype.inherits from lang.js rewritten as a standalone
 * function (not on Function.prototype). NOTE: If this file is to be loaded
 * during bootstrapping this function needs to be rewritten using some native
 * functions as prototype setup using normal JavaScript does not work as
 * expected during bootstrapping (see mirror.js in r114903).
 *
 * @param {function} ctor Constructor function which needs to inherit the
 *     prototype.
 * @param {function} superCtor Constructor function to inherit prototype from.
 * @throws {TypeError} Will error if either constructor is null, or if
 *     the super constructor lacks a prototype.
 */
exports.inherits = function(ctor, superCtor) {

  if (ctor === undefined || ctor === null)
    throw new TypeError('The constructor to "inherits" must not be ' +
```

```

        'null or undefined');

    if (superCtor === undefined || superCtor === null)
        throw new TypeError('The super constructor to "inherits" must not '
+
            'be null or undefined');

    if (superCtor.prototype === undefined)
        throw new TypeError('The super constructor to "inherits" must ' +
            'have a prototype');

    ctor.super_ = superCtor;
    Object.setPrototypeOf(ctor.prototype, superCtor.prototype);
};

```

, GNU

.

..

Awesome Node.js Most depended-upon packages

“ ?

:

```

const fs = require('fs');
const path = require('path');

function traversal(dir) {
    let res = []
    for (let item of fs.readdirSync(dir)) {
        let filepath = path.join(dir, item);
        try {
            let fd = fs.openSync(filepath, 'r');
            let flag = fs.fstatSync(fd).isDirectory();
            fs.close(fd); // TODO
            if (flag) {
                res.push(...traversal(filepath));
            }
        }
    }
}

```

```

    } else {
      res.push(filepath);
    }
  } catch(err) {
    if (err.code === 'ENOENT' && // link
        !!fs.readlinkSync(filepath)) { // link
      res.push(filepath);
    } else {
      console.error('err', err);
    }
  }
}

return res.map((file) => path.basename(file));
}

console.log(traversal('.'));

```

Or [glob](#):

```

const glob = require("glob");

glob("**/*.js", (err, files) => {
  if (err) {
    throw new Error(err);
  }
  files.map((filename) => {
    console.log('Here you are:', filename);
  });
});

```

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