

```
1 const checker = Symbol( 'check' );
2 const isArray = Symbol( 'array' );
3 const isObject = Symbol( 'object' );
4 const isInteger = Symbol( 'integer' );
5 const isDouble = Symbol( 'double' );
6 const isString = Symbol( "string" );
7 const isFunction = Symbol( "function" );
8 const isClass = Symbol( "class" );
9 const isElement = Symbol( "element" ); //Returns a new unique Symbol value.
10 const isEmpty = Symbol( "empty" );
11 const isEmail = Symbol( "email" );
12 const isUrl = Symbol( "url" );
13 export default class Util {
14     constructor() {}
15     get version() {
16         return "1.0.0";
17     }
18     get Array() {
19         return "Array";
20     }
21     get Object() {
22         return "Object";
23     }
24     get Integer() {
25         return "Integer";
26     }
27     get Double() {
28         return "Double";
29     }
30     get String() {
31         return "String";
32     }
33     get Function() {
34         return "Function";
35     }
36     get Class() {
37         return "Class";
38     }
39     get Letter() {
40         return "Letter";
41     }
42     get Empty() {
43         return "Empty";
44     }
45     get Blank() {
46         return "Blank";
47     }
48     get Element() {
49         return "Element";
50     }
51     get Email() {
52         return "Email";
53     }
54     get Url() {
55         return "Url";
56     }
57     [ isArray ]( data ) {
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58     return Array.isArray( data );
59 }
60 [ isObject ]( data ) {
61     return data instanceof Object && data.constructor === Object;
62 }
63 [ isInteger ]( data ) {
64     let x;
65     if ( isNaN( data ) ) {
66         return false;
67     }
68     x = parseFloat( data );
69     return ( x | 0 ) === x;
70 }
71 [ isDouble ]( data ) {
72     let isNan = isNaN( data );
73     let isDouble = false;
74     if ( isNan ) {
75         isDouble = false;
76     } else {
77         isDouble = !( Math.round( data ) === data );
78     }
79     return isDouble;
80 }
81 [ isString ]( data ) {
82     return data.constructor === String && Object.prototype.toString.call( data ) === '[object
String]';
83 }
84 [ isFunction ]( data ) {
85     let isFunc = ( ( Object.prototype.toString.call( data ) === '[object Function]' ||
86         data.constructor === Function ) &&
87         this.startsWith( data, '(' ) );
88     return isFunc || this.startsWith( data, 'function' );
89 }
90 [ isClass ]( data ) {
91     let isClass = ( ( Object.prototype.toString.call( data ) === '[object Function]' ||
92         data.constructor === Function ) );
93     return isClass && this.startsWith( data, 'class' );
94 }
95 [ isElement ]( data, type ) {
96     let el = document.querySelector( data );
97     let result = false;
98     el.forEach( e => {
99         switch ( type ) {
100             case 'visible':
101                 result = window.getComputedStyle( e, null ).getPropertyValue( 'display' ) !==
'none' &&
102                 window.getComputedStyle( e, null ).getPropertyValue( 'visibility' ) !==
'hidden';
103                 break;
104             case 'checked':
105                 result = e.hasAttribute( 'checked' );
106                 break;
107             default:
108                 break;
109         }
110     } );
111     return result;
112 }

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166     if ( arguments.length ) {
167         let t = typeof arguments[ 1 ];
168         let key;
169         let args = ( "string" === t || "number" === t ) ?
170             Array.prototype.slice.call( arguments ) :
171             arguments[ 1 ];
172         for ( key in args ) {
173             str = str.replace( new RegExp( "\\{" + key + "\\}", "gi" ), args[ key ] );
174         }
175     }
176     return str;
177 }
178 is( data, type ) {
179     return this[ checker ]( data, type );
180 }
181 includes( strVal, search ) {
182     if ( !String.prototype.includes ) {
183         return strVal.indexOf( search ) > -1;
184     } else {
185         return strVal.includes( search );
186     }
187 }
188 count( str, search ) {
189     let re = new RegExp( '(' + search + ')', 'g' );
190     let count = 0;
191     try {
192         count = str.match( re ).length;
193     } catch ( error ) {
194     }
195     if ( search === this.Letter && !this.is( str, this.Array ) ) {
196         count = str.length;
197     } else if ( search === this.Array && this.is( str, this.Array ) ) {
198         count = str.length;
199     } else if ( search === this.Object && this.is( str, this.Object ) ) {
200         count = Object.keys( str ).length;
201     } else
202         return count;
203 }
204 url( what = '', all = false ) {
205     const props = [ 'hash', 'host', 'hostname', 'href', 'origin', 'pathname', 'port',
'protocol', 'search' ];
206     let url = {};
207     props.map( p => url[ p ] = document.location[ p ] );
208     if ( !all ) {
209         url = url[ what ];
210     }
211     return url;
212 }
213 page( data, prop ) {
214     let title = document.title;
215     let charset = document.characterSet;
216     let doctype = document.doctype.name;
217     let domain = document.domain;
218     let location = document.location;
219     let design = document.designMode;
220     let scripts = Array.from( document.scripts ).map( m => m.src );
221     let styles = Array.from( document.styleSheets ).filter( f => f.href ).map( m => m.href )
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222     let referrer = document.referrer;
223     let modified = document.lastModified;
224     let dataObj = {
225         title: title,
226         charset: charset,
227         doctype: doctype,
228         domain: domain,
229         location: location,
230         design: design,
231         scripts: scripts,
232         styles: styles,
233         referrer: referrer,
234         modified: modified
235     }
236     if ( !prop ) {
237         return dataObj[ data ];
238     }
239     switch ( data ) {
240         case 'title':
241             document.title = prop;
242             break;
243         case 'charset':
244             let checkCharset = document.querySelector( "meta[charset]" );
245             try {
246                 checkCharset.setAttribute( 'charset', prop );
247             } catch ( Error ) {
248                 let el = document.createElement( "meta" )
249                 el.setAttribute( 'charset', prop );
250                 document.head.insertBefore( el, document.head.firstElementChild );
251             }
252             break;
253         case 'location':
254             document.location = prop;
255             break;
256         case 'design':
257             if ( prop === "on" || prop === "off" ) {
258                 document.designMode = prop;
259             } else {
260                 throw "Prop must be on or off";
261             }
262             break;
263         default:
264             break;
265     }
266 }
267 when( element, event, fn ) {
268     if ( element === 'document' || element === 'body' ) {
269         element = 'html';
270     }
271     let ev = event;
272     let el = document.querySelectorAll( element );
273     if ( element === 'html' && ( event === 'load' || event === 'DOMContentLoaded' ) ) {
274         el = document.addEventListener( ev, ( data ) => {
275             fn( data )
276         } );
277     } else {
278         el.forEach( ( k, v ) => {
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279         let data = {
280             event: ev,
281             index: v,
282             html: el[ v ],
283             text: el[ v ].innerText,
284         }
285         el[ v ].addEventListener( ev, () => {
286             fn( data );
287         } );
288     } );
289 }
290 }
291 where( data, column, search ) {
292     let result = data.filter( m => m[ column ] === search );
293     return result;
294 }
295 }
296 const u = new Util();
297 console.log( u.format( 'Hi {0}. Did you see the {1}?', [ 'Pikachu', 'Meow' ] ) );
298 console.log( u.includes( 'Ali Baba', 'Baba' ) );
299 console.log( u.is( [ 1, 2, 3 ], u.Array ) );
300 console.log( u.is( {
301     'a': 'v'
302 }, u.Object ) );
303 console.log( u.is( 5.1, u.Integer ) );
304 console.log( u.is( 3.2, u.Double ) );
305 console.log( u.is( 'Ali' + 123, u.String ) );
306 const a = ( d ) => {}
307 console.log( u.is( a, u.Function ) );
308 console.log( u.is( function a( d ) {}, u.Function ) );
309 console.log( u.is( class b {}, u.Class ) );
310 console.log( u.count( 'My name is no name when I do not like names. What is your name? Can u say
your naming conversion', 'name' ) );
311 console.log( u.count( '☺ You now I\'ll be happy', u.Letter ) );
312 console.log( u.count( [ 1, 2, 3 ], u.Array ) );
313 console.log( u.count( {
314     'w': 't',
315     'w2': 't2',
316     'wf': 'wf',
317     'wfs': 'wfs2'
318 }, u.Object ) );
319 console.log( u.is( '#button', 'visible' ) );
320 console.log( u.is( "#chk", 'checked' ) );
321 console.log( u.is( "#rdb", 'checked' ) );
322 let t = '';
323 let b = ' ';
324 console.log( u.is( t, u.Empty ) );
325 console.log( u.is( b, u.Blank ) );
326 let anElement = '';
327 console.log( u.is( anElement, u.Element ) );
328 anElement = document.querySelector( "button" );
329 console.log( u.is( anElement, u.Element ) );
330 console.log( u.url( null, true ) );
331 console.log( u.url( 'search' ) );
332 console.log( u.is( 'goren.ali@yandex.com', u.Email ) );
333 console.log( u.is( 'tchİŞ@hotmail.com', u.Email ) );
334 console.log( u.is( 'tchİŞ@hotmail.', u.Email ) );

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335 console.log( u.is( 'https://aligoren.com', u.Url ) );
336 console.log( u.is( 'ftp://github.com', u.Url ) );
337 console.log( u.is( 'http://localhost', u.Url ) );
338 console.log( u.is( 'www.google.com', u.Url ) );
339 console.log( u.page( 'title' ) )
340 u.page( 'title', 'New Page title' )
341 console.log( u.page( 'charset' ) )
342 u.page( 'charset', 'UTF-8' );
343 console.log( u.page( 'doctype' ) );
344 console.log( u.page( 'location' ) );
345 console.log( u.page( 'location', 'https://www.google.com.tr' ) );
346 console.log( u.page( 'design' ) );
347 u.page( 'design', 'on' || 'off' );
348 console.log( u.page( 'scripts' ) );
349 console.log( u.page( 'styles' ) );
350 console.log( u.page( 'referrer' ) );
351 console.log( u.page( 'modified' ) );
352 u.when( 'button', 'click', ( data ) => {
353     console.log( data.event );
354     console.log( data.index );
355     console.log( data.text );
356     console.log( data.html );
357 } );
358 u.when( 'document', 'click', ( data ) => {
359     console.log( data.event );
360     console.log( data.index );
361     console.log( data.text );
362     console.log( data.html );
363 } );
364 u.when( 'document', 'DOMContentLoaded', ( data ) => {
365     console.log( data ); // from event
366 } );
367 u.when( 'document', 'load', ( data ) => {
368     console.log( data ); // from event
369 } );
370 const arr = [ {
371     name: 'test',
372     surname: 'test1'
373 },
374 {
375     name: 'test23',
376     surname: 'newsname'
377 },
378 {
379     name: 'test23',
380     surname: 'newsname'
381 }
382 ]
383 console.log( u.where( arr, 'surname', 'newsname' ) );
384
```