## Celestra cheatsheet – v5.5.5 – <a href="https://github.com/Serrin/Celestra/">https://github.com/Serrin/Celestra/</a>

The celestra and/or the CEL objects contain these functions, except the polyfills. Example: CEL.gsa("p");

```
Core API
                                                              DOM API
                                                                                                  Type checking API
javaHash(<data>[,hexa=false]);
                                          gsa(<selector>[,context]).forEach(<cb>);
                                                                                         isMap(<value>); and isWeakMap(<v>);
b64Encode(<string>); b64Decode(<string>);
                                                                                         isSet(<value>); and isWeakSet(<v>);
                                          | qs(<selector>[,context]);
extend([deep,]<target>,<source1>[,srcN]);
                                          domReadv(<callback>);
                                                                                         isNumber(<v>); and isNumeric(<v>);
sizeIn(<object>);
                                          domCreate(<type>[,properties[,innerHTML]]);
                                                                                         isFloat(<val>); and isBigInt(<v>);
popIn(<object>,,,;
                                          domCreate(<element descriptive object>);
                                                                                         isString(<v>); and isChar(<val>);
forIn(<object>, <callback>);
                                          domToElement(<htmlString>);
                                                                                         isDate(<val>); and isError(<val>);
filterIn(<object>, <callback>);
                                          domGetCSS(<element>[,property]);
                                                                                         isRegexp(<v>); and isSymbol(<v>);
delay + sleep(<ms>).then(<callback>);
                                          domSetCSS(<element>,,<value>);
                                                                                         isElement(<v>); and isObject(<v>);
inherit(<subclass>,<superclass>);
                                          domSetCSS(<element>,,properties>);
                                                                                         isDataView(<value>);
                                          domFadeIn(<element>[,duration[,display]]);
randomBoolean():
                                                                                         isBoolean(<value>);
timestampID([size=21[,alphabet=BASE58]]);
                                          domFadeOut(<element>[,duration]);
                                                                                         isNull(<value>);
nanoid([size=21[,alphabet="A-Za-z0-9-
                                          domFadeToggle(<elem.>[,duration[,display]]);
                                                                                         isUndefined(<value>);
                                          domShow(<element>[,display]);
                                                                                         isNullOrUndefined(<value>);
"]]);
BASE16; BASE32; BASE36; BASE58; BASE62;
                                          domHide(<element>);
                                                                                         isNil(<value>);
WORDSAFEALPHABET;
                                          domToggle(<element>[,display]);
                                                                                         isPlainObject(<value>);
getUrlVars([str=location.search]);
                                          domIsHidden(<element>);
                                                                                         isTruthy(<value>);
obj2string(<object>);
                                          domScrollToTop();
                                                                                         isFalsv(<value>);
classof(<variable>[,type[,throw=false]]);
                                          domScrollToBottom();
                                                                                         isFunction(<v>); + isCallable(<v>);
bind(<fn>,<context>); and unBind(<fn>);
                                          domScrollToElement(<element>[,top=true]);
                                                                                         isConstructorFn(<value>);
constant(<value>); and identity(<value>);
                                          domSiblings(<element>);
                                                                                         isGeneratorFn(<value>);
noop(); and T(); and F();
                                          domSiblingsPrev(<element>);
                                                                                         isAsyncGeneratorFn(<value>);
assertEq(<msq>,<v1>,<v2>[,strict=true]);
                                          domSiblingsLeft(<element>);
                                                                                         isAsvncFn(<value>);
assertNotEg(<m>,<v1>,<v2>[,strict=true]);
                                          domSiblingsNext(<element>);
                                                                                         isArravlike(<value>);
assertTrue(<message>,<value>);
                                          domSiblingsRight(<element>);
                                                                                         isTypedArray(<value>);
assertFalse(<message>, <value>);
                                          domGetCSSVar(<name>);
                                                                                         isArrayBuffer(<value>);
noConflict(); and VERSION;
                                          domSetCSSVar(<name>, <value>);
                                                                                         isPrimitive(<value>);
                                                                                         isPromise(<value>);
               String API
                                                                                         isIterator(<value>);
                                          importScript(<script1>[,scriptN]);
strPropercase(<str>); strTitlecase(<s>);
                                                                                         isIterable(<value>);
                                          importStyle(<style1>[,styleN]);
strCapitalize(<string>);
                                                                                         isEmptyObject(<value>);
strUpFirst(<str>); + strDownFirst(<str>);
                                                                                         isEmptyArray(<value>);
                                          setFullscreenOn(<selector> or <element>);
strReverse(<string>);
                                                                                         isEmptyMap(<value>);
                                          setFullscreenOff();
strCodePoints(<string>);
                                                                                         isEmptySet(<value>);
                                          getFullscreen();
strFromCodePoints(<collection>);
                                                                                         isEmptyIterator(<value>);
strAt(<string>,<index>[,newChar]);
                                                                                         isSameObject(<object1>,<object2>);
                                          form2array(<form>);
strSplice(<str>, <index>, <count>[, add]);
                                                                                         isSameArray(<array1>, <array2>);
                                          form2string(<form>);
strHTMLRemoveTags(<string>);
                                                                                         isSameMap(<map1>,<map2>);
                                          getDoNotTrack();
strHTMLEscape(<string>);
                                                                                         isSameSet(<set1>,<set2>);
                                          getLocation(<success>[,error]);
strHTMLUnEscape(<string>);
                                                                                         isSameIterator(<iter1>,<iter2>);
                                          createFile(<filename>, <content>[, dType]);
```

```
Collections API
                                                                                                      Polyfills
arrayCreate([length=0]);
                                                 forEach(<collection>, <callback>);
                                                                                       Array.fromAsync();
arrayDeepClone(<array>);
                                                 map(<collection>, <callback>);
                                                                                       Array.prototype.at();
arrayMerge(<target>, <source1>[, sourceN]);
                                                 enumerate(<collection>[,offset=0]);
                                                                                       Array.prototype.findLast();
arrayUnique(<collection>);
                                                 entries(<collection>[,offset=0]);
                                                                                       Array.prototype.findLastIndex();
arrayAdd(<array>,<value>);
                                                 size(<collection>);
                                                                                       Array.prototype.flat();
arrayClear(<array>);
                                                                                       Array.prototype.flatMap();
arrayRemove(<array>, <value>[,all=false]);
                                                                                       Array.prototype.group();
                                                 every(<collection>, <callback>);
arrayRemoveBy(<array>, <callback>[,all=false]);
                                                 some(<collection>, <callback>);
                                                                                       Array.prototype.groupToMap();
arrayRange([start=0[,end=99[,step=1]]]);
                                                 none(<collection>, <callback>);
                                                                                       Array.prototype.toReversed();
arrayCycle(<collection>[,n=100]);
                                                                                       Array.prototype.toSorted();
arrayRepeat(<value>[,n=100]);
                                                                                       Array.prototype.toSpliced();
                                                 includes(<collection>,<value>);
                                                                                       Array.prototype.with();
                                                 contains(<collection>, <value>);
iterRange([start=0[,step=1[,end=Infinity]]]);
                                                                                       crypto.randomUUID();
iterCvcle(<iter>[,n=Infinitv]);
                                                 find(<collection>, <callback>);
                                                                                       globalThis;
iterRepeat(<value>[,n=Infinity]);
                                                 findLast(<collection>, <callback>);
                                                                                       Number.MIN SAFE INTEGER;
                                                                                       Number.MAX SAFE INTEGER;
arrayUnion(<collection1>[,collectionN]);
                                                 filter(<collection>, <callback>);
arrayIntersection(<collection1>, <collection2>);
                                                 reject(<collection>, <callback>);
                                                                                       Object.fromEntries();
arrayDifference(<collection1>, <collection2>);
                                                 partition(<collection>, <callback>);
                                                                                        Object.hasOwn();
arraySymmetricDifference(<collec1>, <collec2>);
                                                 group(<collect.>,<cb>[,map=false]);
                                                                                       Object.is();
setUnion(<collection1>[,collectionN]);
                                                 shuffle(<collection>);
                                                                                       String.prototype.at();
setIntersection(<set1>,<set2>);
                                                 min(<value1>[,valueN]);
                                                                                       String.prototype.matchAll();
setDifference(<set1>, <set2>);
                                                 max(<value1>[,valueN]);
                                                                                       String.prototype.replaceAll();
setSymmetricDifference(<set1>, <set2>);
                                                 sort(<collection>[,numbers=false]);
                                                                                       String.prototype.trimStart();
                                                 reverse (<collection>);
                                                                                       String.prototype.trimLeft();
isSuperset(<superCollection>, <subCollection>);
                                                                                       String.prototype.trimEnd();
                                                 zip(<collection1>[,collectionN]);
                                                                                       String.prototype.trimRight();
slice(<collection>[,begin=0[,end=Infinity]]);
                                                 unzip(<collection>);
withOut(<collection>, <filterCollection>);
                                                 zipObj(<collection1>, <collection2>);
                                                                                        TypedArray.prototype.at();
reduce(<collection>, <callback>[,initialvalue]);
                                                 item(<collection>,<index>);
                                                                                       TypedArray.prototype.findLast();
                                                 nth(<collection>,<index>);
                                                                                       TypedArray.prototype.findLastIndex();
                                                 first(<collection>);
take(<collection>[,n=1]);
                                                                                       TypedArray.prototype.toReversed();
                                                 head(<collection>);
takeWhile(<collection>, <callback>);
                                                                                       TypedArray.prototype.toSorted();
                                                 last(<collection>);
takeRight(<collection>[,n=1]);
                                                                                       TypedArray.prototype.with();
                                                 initial(<collection>);
takeRightWhile(<collection>, <callback>);
                                                 tail(<collection>);
                                                                                               Non-standard polyfills
drop(<collection>[,n=1]);
                                                 flat(<collection>);
dropWhile(<collection>, <callback>);
                                                                                        BigInt.prototype.toJSON();
                                                 concat(<collection1>[,collectionN]);
dropRight(<collection>[,n=1]);
                                                                                        AsyncFunction(); GeneratorFunction();
                                                 join(<collection>[,separator=","]);
dropRightWhile(<collection>, <callback>);
```

```
Math API
                                                                                          Abstract API
                                          toInt8(<value>);
sum(<value1>[,valueN]);
                                                                      getIn(<object>,,,;
avg(<value1>[,valueN]);
                                                                      getInV(<object>,,,;
                                          toUInt8(<value>);
product(<value1>[,valueN]);
                                          toInt16(<value>);
                                                                      hasIn(<object>,,,;
                                          toUInt16(<value>);
                                                                      setIn(<object>,,<value>);
clamp(<value>, <min>, <max>);
                                          toInt32(<value>);
minmax(<value>,<min>,<max>);
                                          toUInt32(<value>;
                                                                      toIndex(<value>);
                                          toBigInt64(<value>);
                                                                      toPropertyKey(<value>);
isEven(<value>);
                                          toBigUInt64(<value>);
                                                                      toInteger(<value>);
                                          toFloat32(<value>);
isOdd(<value>);
                                                                      toArray(value);
                                                                      toObject(<value>);
randomInt([max]);
                                                                      isIndex(<value>);
randomInt(<min>,<max>);
                                          isInt8(<value>);
                                                                      isPropertyKey(<value>);
                                          isUInt8(<value>);
                                                                      isSameValue(<value1>, <value2>);
randomFloat([max]);
                                          isInt16(<value>);
                                                                      isSameValueZero(<value1>, <value2>);
randomFloat(<min>,<max>);
                                          isUInt16(<value>);
                                                                      isSameValueNonNumber(<value1>, <value2>);
                                          isInt32(<value>);
inRange(<value>, <min>, <max>);
                                          isUInt32(<value>);
                                                                      type(<value>);
                                          isBigInt64(<value>);
                                                                      createDataProperty(<object>,,,<value>);
signbit(<value>);
                                          isBigUInt64(<value>);
                                                                      createMethodProperty(<object>,,,<value>);
                                                       Cookie API
getCookie([name]);
hasCookie(<name>);
setCookie(<Options object>);
setCookie(<name>, <value>[, hours=8760[, path="/"[, domain[, secure[, SameSite="Lax"[, HttpOnly]]]]]]);
removeCookie(<Options object>);
removeCookie(<name>[,path="/"[,domain[,secure[,SameSite="Lax"[,HttpOnly]]]]]);
clearCookies(<Options object>);
clearCookies([path="/"[,domain[,sec[,SameSite="Lax"[,HttpOnly]]]]]);
                                                    AJAX and CORS API
getText(<url>, <success>);
getJson(<url>, <success>);
```

Options object properties (\* = default value): url: string, data: string, queryType: \*"ajax"/"cors", type: \*"get"/"post",

success: function, error: function, format: \*"text"/"json"/"xml", user: string, password: string

ajax(<Options object>);