

|                     |  |   |
|---------------------|--|---|
| const Ez            |  |   |
| Public properties   |  |   |
| rad                 | float  | Math.PI / 180   |
| grad                | float  | 10 / 9  |
| turn                | float  | 1 / 360   |
| defZero             | array  | arguments for Ez.toNumber() in array form   |
| grThan0             | array  |   |
| notNeg              | array  |   |
| notZero             | array  |   |
| okEmptyUndef        | array  |   |
|                     |  | for Ez.toArray()  |
| undefGrThan0        | array  | created for toNumber() in Pfactory.init()   |
| undefNotZero        | array  |   |
| defGrThan0          | array  |   |
| defNotNeg           | array  |   |
| intGrThan0          | array  |   |
| intNotNeg           | array  |   |
| x                   | integer  | bitmasks for masking SVG viewBox attribute arguments<br>they work for other properties too... |
| y                   | integer  |   |
| z                   | integer  |   |
| w                   | integer  |   |
| h                   | integer  |   |
| width               | integer  |   |
| height              | integer  |   |
| angle               | integer  | bitmask for SVG rotate()  |
| Public methods      |  |   |
| is()                | assigns a read-only property to an object in the format: isXXX |   |
| readOnly()          | assigns a read-only property to an object                      |   |
| shallowClone()      | returns a shallow clone of an object                           |   |
| newArray2D()        | returns a new 2D array, optionally filled                      |   |
| swapDims()          | swaps a 2D array's inner and outer dimensions                  |   |
| clamp()             | clamps a value between a min and a max                         |   |
| comp()              | complements a unit interval value = 1 - unit                   |   |
| compIf()            | conditional version of comp()                                  |   |
| unitOutOfBounds()   | checks for out-of-bounds units in an array                     |   |
| promise()           | instead of Promise.withResolvers()                             |   |
| initialCap()        | returns a new string with the first character in upper case    |   |
| toCamel()           | returns a camelCase string based on the arg supplied           |   |
| camelToKebab()      | converts a camelCase string to kebab-case                      |   |
| kebabToCamel()      | converts a kebab-case string to camelCase                      |   |
| kebabToSnake()      | converts a kebab-case string to snake_case                     |   |
| toSum()             | preset callback for Array.prototype.reduce() to sum numbers    |   |
| toNumby()           | soft numeric conversion, helps PBase and subclasses            |   |
| toNumber()          | numeric conversion with lots of options                        |   |
| toArray()           | converts to an array from any number of types, many options    |   |
| toElement()         | validates elements and converts string to element by id        |   |
| toElements()        | converts to an array of elements                               |   |
| defaultToTrue()     | converts undefined to true and everything else to boolean      |   |
| noneToZero()        | converts null to zero for Color.js coordinate arrays           |   |
| "Protected" methods |  |   |
| _mustBe()           | error & error message generating functions                     |   |
| _mustBeErr()        |  |   |
| _cantBe()           |  |   |
| _cantBeErr()        |  |   |
| _cant()             |  |   |
| _cantErr()          |  |   |
| _only()             |  |   |
| _onlyErr()          |  |   |
| _mustAscendErr()    |  |   |
| _invalidErr()       |  |   |
| _isElmy()           | validation functions   |   |
| _validObj()         |  |   |
| _validFunc()        |  |   |
| _join()             | helps Func/Prop.prototype.join()                               |   |
| _appendUnits()      | validates as it applies string units to numbers                |   |
| _dims()             | counts array dimensions up to 2, non-array = 0, undefined = -1 |   |

