



get

Get object properties

Syntax

```
get(h)
get(h, 'PropertyName')
<m-by-n value cell array> = get(H, <property cell array>)
a = get(h)
a = get(0, 'Factory')
a = get(0, 'FactoryObjectTypePropertyName')
a = get(h, 'Default')
a = get(h, 'DefaultObjectTypePropertyName')
```

Description

`get(h)` returns all properties of the graphics object identified by the handle `h` and their current values.

`get(h, 'PropertyName')` returns the value of the property `'PropertyName'` of the graphics object identified by `h`.

`<m-by-n value cell array> = get(H, pn)` returns n property values for m graphics objects in the m -by- n cell array, where $m = \text{length}(H)$ and n is equal to the number of property names contained in `pn`.

`a = get(h)` returns a structure whose field names are the object's property names and whose values are the current values of the corresponding properties. `h` must be a scalar. If you do not specify an output argument, MATLAB displays the information on the screen.

`a = get(0, 'Factory')` returns the factory-defined values of all user-settable properties. `a` is a structure array whose field names are the object property names and whose field values are the values of the corresponding properties. If you do not specify an output argument, MATLAB displays the information on the screen.

`a = get(0, 'FactoryObjectTypePropertyName')` returns the factory-defined value of the named property for the specified object type. The argument `FactoryObjectTypePropertyName` is the word `Factory` concatenated with the object type (e.g., `Figure`) and the property name (e.g., `Color`).

`FactoryFigureColor a = get(h, 'Default')` returns all default values currently defined on object `h`. `a` is a structure array whose field names are the object property names and whose field values are the values of the corresponding properties. If you do not specify an output argument, MATLAB displays the information on the screen.

`a = get(h, 'DefaultObjectTypePropertyName')` returns the factory-defined value of the named property for the specified object type. The argument `DefaultObjectTypePropertyName` is the word `Default` concatenated with the object type (e.g., `Figure`) and the property name (e.g.,

Color).

```
DefaultFigureColor
```

Examples

You can obtain the default value of the `LineWidth` property for line graphics objects defined on the root level with the statement

```
get(0,'DefaultLineLineWidth')
ans =
    0.5000
```

To query a set of properties on all axes children, define a cell array of property names:

```
props = {'HandleVisibility', 'Interruptible';
         'SelectionHighlight', 'Type'};
output = get(get(gca,'Children'),props);
```

The variable `output` is a cell array of dimension `length(get(gca,'Children'))-by-4`.

For example, type

```
patch;surface;text;line
output = get(get(gca,'Children'),props)
output =
    'on'    'on'    'on'    'line'
    'on'    'off'   'on'    'text'
    'on'    'on'    'on'    'surface'
    'on'    'on'    'on'    'patch'
```

See Also

[findobj](#), [gca](#), [gcf](#), [gco](#), [set](#)

[Handle Graphics Properties](#)

[Finding and Identifying Graphics Objects](#) for related functions

◀ genvarname

getappdata ▶

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