

NAME

xcb_get_property - Gets a window property

SYNOPSIS

```
#include <xcb/xproto.h>
```

Request function

```
xcb_get_property_cookie_t xcb_get_property(xcb_connection_t *conn, uint8_t _delete,
      xcb_window_t window, xcb_atom_t property, xcb_atom_t type, uint32_t long_offset,
      uint32_t long_length);
```

Reply datastructure

```
typedef struct xcb_get_property_reply_t {
    uint8_t response_type;
    uint8_t format;
    uint16_t sequence;
    uint32_t length;
    xcb_atom_t type;
    uint32_t bytes_after;
    uint32_t value_len;
    uint8_t pad0[12];
} xcb_get_property_reply_t;
```

Reply function

```
xcb_get_property_reply_t *xcb_get_property_reply(xcb_connection_t *conn,
      xcb_get_property_cookie_t cookie, xcb_generic_error_t **e);
```

Reply accessors

```
void *xcb_get_property_value(const xcb_get_property_request_t *reply);
```

```
int xcb_get_property_value_length(const xcb_get_property_reply_t *reply);
```

```
xcb_generic_iterator_t xcb_get_property_value_end(const xcb_get_property_reply_t *reply);
```

REQUEST ARGUMENTS

conn The XCB connection to X11.

_delete Whether the property should actually be deleted. For deleting a property, the specified *type* has to match the actual property type.

<i>window</i>	The window whose property you want to get.
<i>property</i>	The property you want to get (an atom).
<i>type</i>	The type of the property you want to get (an atom).
<i>long_offset</i>	Specifies the offset (in 32-bit multiples) in the specified property where the data is to be retrieved.
<i>long_length</i>	Specifies how many 32-bit multiples of data should be retrieved (e.g. if you set <i>long_length</i> to 4, you will receive 16 bytes of data).

REPLY FIELDS

<i>response_type</i>	The type of this reply, in this case <i>XCB_GET_PROPERTY</i> . This field is also present in the <i>xcb_generic_reply_t</i> and can be used to tell replies apart from each other.
<i>sequence</i>	The sequence number of the last request processed by the X11 server.
<i>length</i>	The length of the reply, in words (a word is 4 bytes).
<i>format</i>	Specifies whether the data should be viewed as a list of 8-bit, 16-bit, or 32-bit quantities. Possible values are 8, 16, and 32. This information allows the X server to correctly perform byte-swap operations as necessary.
<i>type</i>	The actual type of the property (an atom).
<i>bytes_after</i>	The number of bytes remaining to be read in the property if a partial read was performed.
<i>value_len</i>	The length of value. You should use the corresponding accessor instead of this field.

DESCRIPTION

Gets the specified *property* from the specified *window*. Properties are for example the window title (*WM_NAME*) or its minimum size (*WM_NORMAL_HINTS*). Protocols such as EWMH also use properties - for example EWMH defines the window title, encoded as UTF-8 string, in the *_NET_WM_NAME* property.

TODO: talk about *type*

TODO: talk about *delete*

TODO: talk about the offset/length thing. what's a valid use case?

RETURN VALUE

Returns an *xcb_get_property_cookie_t*. Errors have to be handled when calling the reply function *xcb_get_property_reply*.

If you want to handle errors in the event loop instead, use *xcb_get_property_unchecked*. See **xcb-requests(3)** for details.

ERRORS

xcb_atom_error_t

property or *type* do not refer to a valid atom.

xcb_value_error_t

The specified *long_offset* is beyond the actual property length (e.g. the property has a length of 3 bytes and you are setting *long_offset* to 1, resulting in a byte offset of 4).

xcb_window_error_t

The specified *window* does not exist.

EXAMPLE

```
/*
 * Prints the WM_NAME property of the window.
 */
void my_example(xcb_connection_t *c, xcb_window_t window) {
    xcb_get_property_cookie_t cookie;
    xcb_get_property_reply_t *reply;

    /* These atoms are predefined in the X11 protocol. */
    xcb_atom_t property = XCB_ATOM_WM_NAME;
    xcb_atom_t type = XCB_ATOM_STRING;

    // TODO: a reasonable long_length for WM_NAME?
    cookie = xcb_get_property(c, 0, window, property, type, 0, 0);
    if ((reply = xcb_get_property_reply(c, cookie, NULL))) {
        int len = xcb_get_property_value_length(reply);
        if (len == 0) {
            printf("TODO\n");
        }
    }
}
```

```
        free(reply);
        return;
    }
    printf("WM_NAME is %.*s\n", len,
        (char*)xcb_get_property_value(reply));
    }
    free(reply);
}
```

SEE ALSO

xcb-requests(3), **xcb-examples(3)**, **xcb_intern_atom(3)**, **xprop(1)**

AUTHOR

Generated from xproto.xml. Contact xcb@lists.freedesktop.org for corrections and improvements.