

**NAME**

xcb\_get\_geometry - Get current window geometry

**SYNOPSIS**

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

**Request function**

```
xcb_get_geometry_cookie_t xcb_get_geometry(xcb_connection_t *conn, xcb_drawable_t drawable);
```

**Reply datastructure**

```
typedef struct xcb_get_geometry_reply_t {
    uint8_t    response_type;
    uint8_t    depth;
    uint16_t   sequence;
    uint32_t   length;
    xcb_window_t root;
    int16_t    x;
    int16_t    y;
    uint16_t   width;
    uint16_t   height;
    uint16_t   border_width;
    uint8_t    pad0[2];
} xcb_get_geometry_reply_t;
```

**Reply function**

```
xcb_get_geometry_reply_t *xcb_get_geometry_reply(xcb_connection_t *conn,
    xcb_get_geometry_cookie_t cookie, xcb_generic_error_t **e);
```

**REQUEST ARGUMENTS**

*conn*           The XCB connection to X11.

*drawable*       The drawable (*Window* or *Pixmap*) of which the geometry will be received.

**REPLY FIELDS**

*response\_type*   The type of this reply, in this case *XCB\_GET\_GEOMETRY*. This field is also present in the *xcb\_generic\_reply\_t* and can be used to tell replies apart from each other.

*sequence*       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>depth</i>	The depth of the drawable (bits per pixel for the object).
<i>root</i>	Root window of the screen containing <i>drawable</i> .
<i>x</i>	The X coordinate of <i>drawable</i> . If <i>drawable</i> is a window, the coordinate specifies the upper-left outer corner relative to its parent's origin. If <i>drawable</i> is a pixmap, the X coordinate is always 0.
<i>y</i>	The Y coordinate of <i>drawable</i> . If <i>drawable</i> is a window, the coordinate specifies the upper-left outer corner relative to its parent's origin. If <i>drawable</i> is a pixmap, the Y coordinate is always 0.
<i>width</i>	The width of <i>drawable</i> .
<i>height</i>	The height of <i>drawable</i> .
<i>border_width</i>	The border width (in pixels).

## DESCRIPTION

Gets the current geometry of the specified drawable (either *Window* or *Pixmap*).

## RETURN VALUE

Returns an *xcb\_get\_geometry\_cookie\_t*. Errors have to be handled when calling the reply function *xcb\_get\_geometry\_reply*.

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

## ERRORS

*xcb\_drawable\_error\_t*  
TODO: reasons?

*xcb\_window\_error\_t*  
TODO: reasons?

## EXAMPLE

```
/*
```

```
* Displays the x and y position of the given window.
*
*/
void my_example(xcb_connection_t *c, xcb_window_t window) {
    xcb_get_geometry_cookie_t cookie;
    xcb_get_geometry_reply_t *reply;

    cookie = xcb_get_geometry(c, window);
    /* ... do other work here if possible ... */
    if ((reply = xcb_get_geometry_reply(c, cookie, NULL))) {
        printf("This window is at %d, %d\n", reply->x, reply->y);
    }
    free(reply);
}
```

**SEE ALSO**

**xcb-requests(3)**, **xcb-examples(3)**, **xwininfo(1)**

**AUTHOR**

Generated from xproto.xml. Contact [xcb@lists.freedesktop.org](mailto:xcb@lists.freedesktop.org) for corrections and improvements.