

NAME

xcb_query_tree - query the window tree

SYNOPSIS

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

Request function

```
xcb_query_tree_cookie_t xcb_query_tree(xcb_connection_t *conn, xcb_window_t window);
```

Reply datastructure

```
typedef struct xcb_query_tree_reply_t {
    uint8_t    response_type;
    uint8_t    pad0;
    uint16_t   sequence;
    uint32_t   length;
    xcb_window_t root;
    xcb_window_t parent;
    uint16_t   children_len;
    uint8_t    pad1[14];
} xcb_query_tree_reply_t;
```

Reply function

```
xcb_query_tree_reply_t *xcb_query_tree_reply(xcb_connection_t *conn,
    xcb_query_tree_cookie_t cookie, xcb_generic_error_t **e);
```

Reply accessors

```
xcb_window_t *xcb_query_tree_children(const xcb_query_tree_request_t *reply);
```

```
int xcb_query_tree_children_length(const xcb_query_tree_reply_t *reply);
```

```
xcb_generic_iterator_t xcb_query_tree_children_end(const xcb_query_tree_reply_t *reply);
```

REQUEST ARGUMENTS

conn The XCB connection to X11.

window The *window* to query.

REPLY FIELDS

response_type The type of this reply, in this case *XCB_QUERY_TREE*. 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.

length The length of the reply, in words (a word is 4 bytes).

root The root window of *window*.

parent The parent window of *window*.

children_len The number of child windows.

DESCRIPTION

Gets the root window ID, parent window ID and list of children windows for the specified *window*. The children are listed in bottom-to-top stacking order.

RETURN VALUE

Returns an *xcb_query_tree_cookie_t*. Errors have to be handled when calling the reply function *xcb_query_tree_reply*.

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

ERRORS

This request does never generate any errors.

EXAMPLE

```
/*
 * Displays the root, parent and children of the specified window.
 *
 */
void my_example(xcb_connection_t *conn, xcb_window_t window) {
    xcb_query_tree_cookie_t cookie;
    xcb_query_tree_reply_t *reply;

    cookie = xcb_query_tree(conn, window);
    if ((reply = xcb_query_tree_reply(conn, cookie, NULL))) {
        printf("root = 0x%08x\n", reply->root);
        printf("parent = 0x%08x\n", reply->parent);
    }
}
```

```
xcb_window_t *children = xcb_query_tree_children(reply);
for (int i = 0; i < xcb_query_tree_children_length(reply); i++)
    printf("child window = 0x%08x\n", children[i]);

    free(reply);
}
}
```

SEE ALSO

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

AUTHOR

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