NAME

xcb_grab_keyboard - Grab the keyboard

SYNOPSIS

#include <xcb/xproto.h>

Request function

xcb_grab_keyboard_cookie_t **xcb_grab_keyboard**(xcb_connection_t **conn*, uint8_t *owner_events*, xcb_window_t *grab_window*, xcb_timestamp_t *time*, uint8_t *pointer_mode*, uint8_t *keyboard_mode*);

Reply datastructure

```
typedef struct xcb_grab_keyboard_reply_t {
   uint8_t  response_type;
   uint8_t  status;
   uint16_t sequence;
   uint32_t length;
} xcb_grab_keyboard_reply_t;
```

Reply function

xcb_grab_keyboard_reply_t *__xcb_grab_keyboard_reply__(xcb_connection_t **conn*, xcb_grab_keyboard_cookie_t *cookie*, xcb_generic_error_t ***e*);

REQUEST ARGUMENTS

conn The XCB connection to X11.

owner_events If 1, the *grab_window* will still get the pointer events. If 0, events are not reported to the *grab_window*.

grab_window Specifies the window on which the pointer should be grabbed.

time Timestamp to avoid race conditions when running X over the network.

The special value *XCB_CURRENT_TIME* will be replaced with the current server time.

pointer_mode One of the following values:

XCB_GRAB_MODE_SYNC

The state of the keyboard appears to freeze: No further keyboard events are generated by the server until the grabbing client issues a releasing *AllowEvents* request or until the keyboard grab is released.

XCB_GRAB_MODE_ASYNC
Keyboard event processing continues normally.

keyboard_mode
One of the following values:

XCB_GRAB_MODE_SYNC
The state of the keyboard appears to freeze: No further keyboard events are generated by the server until the grabbing client issues a releasing *AllowEvents* request or until the keyboard grab is released.

XCB_GRAB_MODE_ASYNC
Keyboard event processing continues normally.

REPLY FIELDS

response_type The type of this reply, in this case *XCB_GRAB_KEYBOARD*. 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).

status One of the following values:

XCB_GRAB_STATUS_SUCCESS
TODO: NOT YET DOCUMENTED.

XCB_GRAB_STATUS_ALREADY_GRABBED
TODO: NOT YET DOCUMENTED.

XCB_GRAB_STATUS_INVALID_TIME

TODO: NOT YET DOCUMENTED.

XCB_GRAB_STATUS_NOT_VIEWABLE
TODO: NOT YET DOCUMENTED.

XCB_GRAB_STATUS_FROZEN
TODO: NOT YET DOCUMENTED.
TODO: NOT YET DOCUMENTED.

DESCRIPTION

Actively grabs control of the keyboard and generates FocusIn and FocusOut events. Further key events are reported only to the grabbing client.

Any active keyboard grab by this client is overridden. If the keyboard is actively grabbed by some other client, *AlreadyGrabbed* is returned. If *grab_window* is not viewable, *GrabNotViewable* is returned. If the keyboard is frozen by an active grab of another client, *GrabFrozen* is returned. If the specified *time* is earlier than the last-keyboard-grab time or later than the current X server time, *GrabInvalidTime* is returned. Otherwise, the last-keyboard-grab time is set to the specified time.

RETURN VALUE

Returns an *xcb_grab_keyboard_cookie_t*. Errors have to be handled when calling the reply function *xcb_grab_keyboard_reply*.

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

ERRORS

xcb_value_error_t
TODO: reasons?

xcb_window_error_t
The specified *window* does not exist.

EXAMPLE

```
/*
 * Grabs the keyboard actively
 *
 */
void my_example(xcb_connection_t *conn, xcb_screen_t *screen) {
```

```
    xcb_grab_keyboard_cookie_t cookie;
    xcb_grab_keyboard_reply_t *reply;

    cookie = xcb_grab_keyboard(
        conn,
        true,               /* report events */
        screen->root,       /* grab the root window */
        XCB_CURRENT_TIME,
        XCB_GRAB_MODE_ASYNC, /* process events as normal, do not require sync */
        XCB_GRAB_MODE_ASYNC
    );

    if ((reply = xcb_grab_keyboard_reply(conn, cookie, NULL))) {
        if (reply->status == XCB_GRAB_STATUS_SUCCESS)
            printf("successfully grabbed the keyboard\n");

        free(reply);
    }
}
```

SEE ALSO

xcb-requests(3), **xcb-examples**(3), **xcb_grab_pointer**(3)

AUTHOR

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