

NAME

xcb_query_text_extents - get text extents

SYNOPSIS

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

Request function

```
xcb_query_text_extents_cookie_t xcb_query_text_extents(xcb_connection_t *conn,  
xcb_fontable_t font, uint32_t string_len, const xcb_char2b_t *string);
```

Reply datastructure

```
typedef struct xcb_query_text_extents_reply_t {  
    uint8_t response_type;  
    uint8_t draw_direction;  
    uint16_t sequence;  
    uint32_t length;  
    int16_t font_ascent;  
    int16_t font_descent;  
    int16_t overall_ascent;  
    int16_t overall_descent;  
    int32_t overall_width;  
    int32_t overall_left;  
    int32_t overall_right;  
} xcb_query_text_extents_reply_t;
```

Reply function

```
xcb_query_text_extents_reply_t *xcb_query_text_extents_reply(xcb_connection_t *conn,  
xcb_query_text_extents_cookie_t cookie, xcb_generic_error_t **e);
```

REQUEST ARGUMENTS

- conn* The XCB connection to X11.
- font* The *font* to calculate text extents in. You can also pass a graphics context.
- string_len* The number of characters in *string*.
- string* The text to get text extents for.

REPLY FIELDS

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

draw_direction One of the following values:

XCB_FONT_DRAW_LEFT_TO_RIGHT
 TODO: NOT YET DOCUMENTED.

XCB_FONT_DRAW_RIGHT_TO_LEFT
 TODO: NOT YET DOCUMENTED.
 TODO: NOT YET DOCUMENTED.

font_ascent TODO: NOT YET DOCUMENTED.

font_descent TODO: NOT YET DOCUMENTED.

overall_ascent TODO: NOT YET DOCUMENTED.

overall_descent TODO: NOT YET DOCUMENTED.

overall_width TODO: NOT YET DOCUMENTED.

overall_left TODO: NOT YET DOCUMENTED.

overall_right TODO: NOT YET DOCUMENTED.

DESCRIPTION

Query text extents from the X11 server. This request returns the bounding box of the specified 16-bit character string in the specified *font* or the font contained in the specified graphics context.

font_ascent is set to the maximum of the ascent metrics of all characters in the string. *font_descent* is set to the maximum of the descent metrics. *overall_width* is set to the sum of the character-width metrics of all characters in the string. For each character in the string, let W be the sum of the character-width metrics of all characters preceding it in the string. Let L be the left-side-bearing metric of the character plus W. Let R be the right-side-bearing metric of the character plus W. The lbearing

member is set to the minimum L of all characters in the string. The rbearing member is set to the maximum R.

For fonts defined with linear indexing rather than 2-byte matrix indexing, each *xcb_char2b_t* structure is interpreted as a 16-bit number with byte1 as the most significant byte. If the font has no defined default character, undefined characters in the string are taken to have all zero metrics.

Characters with all zero metrics are ignored. If the font has no defined default_char, the undefined characters in the string are also ignored.

RETURN VALUE

Returns an *xcb_query_text_extents_cookie_t*. Errors have to be handled when calling the reply function *xcb_query_text_extents_reply*.

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

ERRORS

xcb_font_error_t

The specified *font* does not exist.

xcb_g_context_error_t

The specified graphics context does not exist.

SEE ALSO

xcb-requests(3)

AUTHOR

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