

**NAME**

xcb\_alloc\_color - Allocate a color

**SYNOPSIS**

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

**Request function**

```
xcb_alloc_color_cookie_t xcb_alloc_color(xcb_connection_t *conn, xcb_colormap_t cmap,  
      uint16_t red, uint16_t green, uint16_t blue);
```

**Reply datastructure**

```
typedef struct xcb_alloc_color_reply_t {  
    uint8_t response_type;  
    uint8_t pad0;  
    uint16_t sequence;  
    uint32_t length;  
    uint16_t red;  
    uint16_t green;  
    uint16_t blue;  
    uint8_t pad1[2];  
    uint32_t pixel;  
} xcb_alloc_color_reply_t;
```

**Reply function**

```
xcb_alloc_color_reply_t *xcb_alloc_color_reply(xcb_connection_t *conn,  
      xcb_alloc_color_cookie_t cookie, xcb_generic_error_t **e);
```

**REQUEST ARGUMENTS**

<i>conn</i>	The XCB connection to X11.
<i>cmap</i>	TODO
<i>red</i>	The red value of your color.
<i>green</i>	The green value of your color.
<i>blue</i>	The blue value of your color.

**REPLY FIELDS**

<i>response_type</i>	The type of this reply, in this case <i>XCB_ALLOC_COLOR</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>red</i>	TODO: NOT YET DOCUMENTED.
<i>green</i>	TODO: NOT YET DOCUMENTED.
<i>blue</i>	TODO: NOT YET DOCUMENTED.
<i>pixel</i>	TODO: NOT YET DOCUMENTED.

## DESCRIPTION

Allocates a read-only colormap entry corresponding to the closest RGB value supported by the hardware. If you are using TrueColor, you can take a shortcut and directly calculate the color pixel value to avoid the round trip. But, for example, on 16-bit color setups (VNC), you can easily get the closest supported RGB value to the RGB value you are specifying.

## RETURN VALUE

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

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

## ERRORS

*xcb\_colormap\_error\_t*  
The specified colormap *cmap* does not exist.

## SEE ALSO

**xcb-requests(3)**

## AUTHOR

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