

NAME

XGetVisualInfo, XMatchVisualInfo, XVisualIDFromVisual, XVisualInfo – obtain visual information and visual structure

SYNTAX

```
XVisualInfo *XGetVisualInfo(Display *display, long vinfo_mask, XVisualInfo *vinfo_template, int
*nitems_return);
```

```
Status XMatchVisualInfo(Display *display, int screen, int depth, int class, XVisualInfo *vinfo_return);
```

```
VisualID XVisualIDFromVisual(Visual *visual);
```

ARGUMENTS

| | |
|-----------------------|--|
| <i>class</i> | Specifies the class of the screen. |
| <i>depth</i> | Specifies the depth of the screen. |
| <i>display</i> | Specifies the connection to the X server. |
| <i>nitems_return</i> | Returns the number of matching visual structures. |
| <i>screen</i> | Specifies the screen. |
| <i>visual</i> | Specifies the visual type. |
| <i>vinfo_mask</i> | Specifies the visual mask value. |
| <i>vinfo_return</i> | Returns the matched visual information. |
| <i>vinfo_template</i> | Specifies the visual attributes that are to be used in matching the visual structures. |

DESCRIPTION

The **XGetVisualInfo** function returns a list of visual structures that have attributes equal to the attributes specified by *vinfo_template*. If no visual structures match the template using the specified *vinfo_mask*, **XGetVisualInfo** returns a NULL. To free the data returned by this function, use **XFree**.

The **XMatchVisualInfo** function returns the visual information for a visual that matches the specified depth and class for a screen. Because multiple visuals that match the specified depth and class can exist, the exact visual chosen is undefined. If a visual is found, **XMatchVisualInfo** returns nonzero and the information on the visual to *vinfo_return*. Otherwise, when a visual is not found, **XMatchVisualInfo** returns zero.

The **XVisualIDFromVisual** function returns the visual ID for the specified visual type.

STRUCTURES

The **XVisualInfo** structure contains:

```
/* Visual information mask bits */
#define VisualNoMask 0x0
#define VisualIDMask 0x1
#define VisualScreenMask 0x2
#define VisualDepthMask 0x4
#define VisualClassMask 0x8
#define VisualRedMaskMask 0x10
#define VisualGreenMaskMask 0x20
#define VisualBlueMaskMask 0x40
#define VisualColormapSizeMask 0x80
#define VisualBitsPerRGBMask 0x100
#define VisualAllMask 0x1FF
/* Values */
```

```
typedef struct {
    Visual *visual;
```

```
VisualID visualid;
int screen;
int depth;
int class;
unsigned long red_mask;
unsigned long green_mask;
unsigned long blue_mask;
int colormap_size;
int bits_per_rgb;
} XVisualInfo;
```

SEE ALSO

XFree(3)

Xlib – C Language X Interface