

XSetState, XSetFunction, XSetPlanemask, XSetForeground, XSetBackground – GC convenience routines

XSetState(*display, gc, foreground, background, function, plane_mask*)

```
Display *display;  
GC gc;  
unsigned long foreground, background;  
int function;  
unsigned long plane_mask;
```

XSetFunction(*display, gc, function*)

```
Display *display;  
GC gc;  
int function;
```

XSetPlaneMask(*display, gc, plane_mask*)

```
Display *display;  
GC gc;  
unsigned long plane_mask;
```

XSetForeground(*display, gc, foreground*)

```
Display *display;  
GC gc;  
unsigned long foreground;
```

XSetBackground(*display, gc, background*)

```
Display *display;  
GC gc;  
unsigned long background;
```

<i>background</i>	Specifies the background you want to set for the specified GC.
<i>display</i>	Specifies the connection to the X server.
<i>foreground</i>	Specifies the foreground you want to set for the specified GC.
<i>function</i>	Specifies the function you want to set for the specified GC.
<i>gc</i>	Specifies the GC.
<i>plane_mask</i>	Specifies the plane mask.

The **XSetState** function sets the foreground, background, plane mask, and function components for the specified GC.

XSetState can generate **BadAlloc**, **BadGC**, and **BadValue** errors.

XSetFunction sets a specified value in the specified GC.

XSetFunction can generate **BadAlloc**, **BadGC**, and **BadValue** errors.

The **XSetPlaneMask** function sets the plane mask in the specified GC.

XSetPlaneMask can generate **BadAlloc** and **BadGC** errors.

The **XSetForeground** function sets the foreground in the specified GC.

XSetForeground can generate **BadAlloc** and **BadGC** errors.

The **XSetBackground** function sets the background in the specified GC.

XSetBackground can generate **BadAlloc** and **BadGC** errors.

BadAlloc The server failed to allocate the requested resource or server memory. **BadGC** A value for a GContext argument does not name a defined GContext. **BadValue** Some numeric value falls outside the range of values accepted by the request. Unless a specific range is specified for an argument, the full range defined by the argument's type is accepted. Any argument defined as a set of alternatives can generate this

error.

**XCreateGC(3X11), XQueryBestSize(3X11), XSetArcMode(3X11), XSetClipOrigin(3X11),
XSetFillStyle(3X11), XSetFont(3X11), XSetLineAttributes(3X11), XSetTile(3X11)**

Xlib – C Language X Interface