

**NAME**

XSetState, XSetFunction, XSetPlaneMask, XSetForeground, XSetBackground - GC convenience routines

**SYNTAX**

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

```
int XSetFunction(Display *display, GC gc, int function);
```

```
int XSetPlaneMask(Display *display, GC gc, unsigned long plane_mask);
```

```
int XSetForeground(Display *display, GC gc, unsigned long foreground);
```

```
int XSetBackground(Display *display, GC gc, unsigned long background);
```

**ARGUMENTS**

*background* Specifies the background you want to set for the specified GC.

*display* Specifies the connection to the X server.

*foreground* Specifies the foreground you want to set for the specified GC.

*function* Specifies the function you want to set for the specified GC.

*gc* Specifies the GC.

*plane\_mask* Specifies the plane mask.

**DESCRIPTION**

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.

## DIAGNOSTICS

**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.

## SEE ALSO

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

*Xlib - C Language X Interface*