

**NAME**

XShapeQueryExtension, XShapeQueryVersion, XShapeCombineRegion, XShapeCombineRectangles, XShapeCombineMask, XShapeCombineShape, XShapeOffsetShape, XShapeQueryExtents, XShapeSelectInput, XShapeInputSelected, XShapeGetRectangles - X nonrectangular shape functions

**SYNTAX**

```
#include <X11/extensions/shape.h>
```

```
Bool XShapeQueryExtension (  
    Display *dpy,  
    int *event_basep,  
    int *error_basep);
```

```
Status XShapeQueryVersion (  
    Display *dpy,  
    int *major_versionp,  
    int *minor_versionp);
```

```
void XShapeCombineRegion (  
    Display *dpy,  
    Window dest,  
    int destKind,  
    int xOff,  
    int yOff,  
    struct _XRegion *r,  
    int op);
```

```
void XShapeCombineRectangles (  
    Display *dpy,  
    XID dest,  
    int destKind,  
    int xOff,  
    int yOff,  
    XRectangle *rects,  
    int n_rects,  
    int op,  
    int ordering);
```

```
void XShapeCombineMask (  
    Display *dpy,  
    XID dest,  
    int destKind,  
    int xOff,  
    int yOff,  
    XRectangle *rects,  
    int n_rects,  
    int op,  
    int ordering);
```

```
    Display *dpy,  
    XID dest,  
    int destKind,  
    int xOff,  
    int yOff,  
    Pixmap src,  
    int op);
```

```
void XShapeCombineShape (  
    Display *dpy,  
    XID dest,  
    int destKind,  
    int xOff,  
    int yOff,  
    Pixmap src,  
    int srcKind,  
    int op);
```

```
void XShapeOffsetShape (  
    Display *dpy,  
    XID dest,  
    int destKind,  
    int xOff,  
    int yOff);
```

```
Status XShapeQueryExtents (  
    Display *dpy,  
    Window window,  
    int *bShaped,  
    int *xbs,  
    int *ybs,  
    unsigned int *wbs,  
    unsigned int *hbs,  
    int *cShaped,  
    int *xcs,  
    int *ybs,  
    unsigned int *wcs,  
    unsigned int *hcs);
```

```
void XShapeSelectInput (  

```

```

    Display *dpy,
    Window window,
    unsigned longmask);

```

```

unsigned long XShapeInputSelected (
    Display *dpy,
    Window window);

```

```

XRectangle *XShapeGetRectangles (
    Display *dpy,
    Window window,
    int kind,
    int *count,
    int *ordering);

```

## STRUCTURES

```

typedef struct {
    int type;      /* of event */
    unsigned long serial; /* # of last request processed by server */
    Bool send_event; /* true if this came from a SendEvent request */
    Display *display; /* Display the event was read from */
    Window window; /* window of event */
    int kind; /* ShapeBounding or ShapeClip */
    int x, y; /* extents of new region */
    unsigned width, height;
    Time time; /* server timestamp when region changed */
    Bool shaped; /* true if the region exists */
} XShapeEvent;

```

## DESCRIPTION

The *X11 Nonrectangular Window Shape Extension* adds nonrectangular windows to the X Window System.

## PREDEFINED VALUES

Operations:

```

    ShapeSet
    ShapeUnion
    ShapeIntersect
    ShapeSubtract
    ShapeInvert

```

**Shape Kinds:***ShapeBounding**ShapeClip***Event defines:***ShapeNotifyMask**ShapeNotify***BUGS**

This manual page needs a lot more work.

**SEE ALSO**

*X11 Nonrectangular Window Shape Extension*