

**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,  
    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*