Nano-X API Reference Manual

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Chapter 1. libnano-X

general (3)

Details

GrFlush ()

```
void        GrFlush                         (void);
```

Flush the message buffer

Description

Details

GrQ8 (D .86 Tm (Chapter)Tj 42.o92j /R34 wWindor)Tj54.6774j /R34 wlibna

Recursively unmaps (makes invisible) the specified window and all of the child windows.

`wid` : the ID of the window to

Mo

pwid :	the ID of the new parent window
x :	the X coordinate to place the window at relative to the new parent
y :	the Y coordinate to place the window at relative to the new parent

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GrGetWindowInfo ()

GrSetBorderColor ()

```
void        GrSetBorderColor                (GR_WINDOW_ID wid,
                                             GR_COLOR color);
```

Sets the border colour of the specified window to the specified colour.

wid :	the ID of the window to set the border colour of
color :	

GrSetBackgroundPixmap ()

Clears the specified window by setting it to its background color. If the exposeflag parameter is non zero, an exposure event is generated for the window after it has been

```
                                    int type);
void      GrArcAngle               (GR_DRAW_ID id,in_DRGCD
GR_SIZE width,
GR_SIZE height,
void *pixels,
int pixtype);
```

GrCopyGC ()

```
GR_GC_ID    GrCopyGC                        (GR_GC_ID gc);
```

Creates a new graphics context structure and fills it in with the values from the specified already existing graphics context.

`gc` :	the already existing graphics context to copy the parameters from
Returns :	the ID of the newly created graphics context or 0 on error

GrGetGCInfo ()

```
void        GrGetGCInfo                     (GR_GC_ID gc,
                                             GR_GC_INFO *gcip);
```

Fills in the specified GR_GC_INFO structure with information regarding the specified graphics context.

`gc` :	a graphics context
`gcip` :	pointer to a GR_GC_INFO structure

GrDestroyGC ()

```
void        GrDestroyGC                     (GR_GC_ID gc);
```

Destroys the graphics context structure with the specified ID.

`gc` :	the ID of the graphics context structure to destroy

GrLine ()

```
void        GrLine                          (GR_DRAW_ID id,
                                             GR_GC_ID gc,
                                             GR_COORD x1,
                                             GR_COORD y1,
                                             GR_COORD x2,
                                             GR_COORD y2);
```

Draws a line using the specified graphics context on the specified drawable from (x1, y1) to (x2, y2), with coordinates given relative to the drawable.

`id` :	the ID of the drawable to draw the line on
`gc` :	the ID of the graphics context to use when drawing the line
`x1` :	the X coordinate of the start of the line relative to the drawable
`y1` :	the Y coordinate of the start of the line relative to the drawable
`x2` :	the X coordinate of the end of the line relative to the drawable
`y2` :	the Y coordinate of the end of the line relative to the drawable

GrPoint ()

```
void        GrPoint                         (GR_DRAW_ID id,
                                             GR_GC_ID gc,
                                             GR_COORD x,
                                             GR_COORD y);
```

Draws a point using the specified graphics context at the specified position on the specified drawable.

`id` :	the ID of the drawable to draw a point on
`gc` :	the ID of the graphics context to use when drawing the point

x : the X coordinate to draw the point at relative to the drawable

y : the Y coordinate to draw the point at relative to the drawable

GrPoints ()

```
void        GrPoints                              (GR_DRAW_ID id,
                                                   GR_GC_ID
```

```
                                               GR_GC_ID gc,
                                               GR_COUNT count,
                                               GR_POINT *point-
table);
```

Draws an unfilled polygon on the specified drawable using the specified graphics context. The polygon is specified by an array of point The polygon

Draws a filled ellipse

y :	the Y coordinate to draw the arc at relative to the drawable
rx :	the radius of the arc on the X axis
ry :	the radius of the arc on the Y axis
ax :	the X coordinate of the start of the arc relative to the drawable
ay :	the Y coordinate of the start of the arc relative to the drawable
bx :	the X coordinate of the end of the arc relative to the drawable
by :	the Y coordinate of the end of the arc relative to the drawable
type :	the fill style to use when drawing the arc

GrArcAngle ()

```
void        GrArcAngle                      (GR_DRAW_ID id,
                                             GR_GC_ID gc,
                                             GR_COORD x,
                                             GR_COORD y,
                                             GR_SIZE rx,
                                             GR_SIZE ry,
                                             GR_COORD angle1,
                                             GR_COORD angle2,
                                             int type);
```

Draws an arc with the specified dimensions at the specified position on the specified drawable using the specified graphics contexttype

`rx` :	the radius of the arc on the X axis
`ry` :	the radius of the arc on the Y axis
`angle1` :	the angle of the start of the arc

`gc` : the

```
                                                  GR_SIZE width,
                                                  GR_SIZE height,
                                                  GR_PIXELVAL *pix-
els);
```

Reads the pixel data of the specified size from specified specified positionTj 45.4470,

`y` :	the Y coordinate to copy the area to within the destination drawable
`width` :	the width of the area to copy
`height` :	the height of the area to copy
`srcid` :	the ID of the drawable to copy the area from

```
GR_SIZE height,
char *path,
int flags);
```

Loads the specified image file and draws it at the specified position on the specified drawable using the specified graphics context. The width and height values specify the size of the image

Description

Details

GrSelectEvents ()

```
void        GrSelectEvents                    (GR_WINDOW_ID wid,
                                               GR_EVENT_MASK event-
mask);
```

```
                                                GR_TIMEOUT time-
out);
```

Returns :1.C951(1.)Tj if.69830.3165(1.)Tj an.69834.2617(1.)Tj e.6985.0322 (libnanv.6985.(C9

GrDestroyFont ()

```
void        GrDestroyFont                        (GR_FONT_ID fontid);
```

```
GR_COLOR foreground,
GR_COLOR background,
GR_BITMAP *fbbitmap,
GR_BITMAP *bgbitmap,
int flags);
```

Moves the cursor (mouse pointer) to the specified coordinates. The coordinates are relative to the root window, (0,0) is the upper left hand corner of the screen. The ref56 nce point used for the pointer is [illegible] Td (0 Td -40.0011 52 0 Td (a

colours (3)

Name

`colours` —

Synopsis

```
void        GrGetSystemPalette               (GR_PALETTE *pal);
```

`pal`: pointer to a palette structure to fill in with the system palette

```
                                                      GR_REGION_ID src_rgn1,
                                                      GR_REGION_ID src_rgn2);
void        GrIntersectRe-
gion               (GR_REGION_ID dst_rgn,
                                                      GR_REGION_ID src_rgn1,
                                                      GR_REGION_ID src_rgn2);
void        GrSetGCRegion                            (GR_GC_ID gc,
                                                      GR_REGION_ID region);
GR_BOOL     GrPointInRe-
gion                 (GR_REGION_ID region,
                                                      GR_COORD x,
                                                      GR_COORD y);
int         GrRectInRe-
gion                  (GR_REGION_ID region,
                                                      GR_COORD x,
                                                      GR_COORD y,
                                                      GR_COORD w,
                                                      GR_COORD h);
GR_BOOL     GrEmptyRe-
gion                   (GR_REGION_ID region);
GR_BOOL     GrEqualRegion                            (GR_REGION_ID rgn1,
                                                      GR_REGION_ID rgn2);
void        GrOffsetRe-
gion                  (GR_REGION_ID region,
                                                      GR_SIZE dx,
                                                      GR_SIZE dy);
int         GrGetRegion-
Box                  (GR_REGION_ID region,
                                                      GR_RECT *rect);
GR_REGION_ID GrNewPolygonRegion                      (int mode,
                                                      GR_COUNT count,
                                                      GR_POINT *points);
```

Description

Details

GrNewRegion ()

```
GR_REGION_ID GrNewRegion                    (void);
```

Creates a new region structure and returns the ID used to refer to it. The structure is initialised with a set of default parameters.

Returns : the ID of the newly created region

GrRectInRegion ()

```
int         GrRectInRegion                  (GR_REGION_ID re-
gion,
                                              GR_COORD x,
                                              GR_COORD y,
                                              GR_COORD w,
                                              GR_COORD h);
```

Tests whether the specified rectangle is contained within the specified region. Returns GR_RECT_OUT if it is not inside it at all, GR_RECT_ALLIN if it is completely contained within the region, or GR_RECT_PARTIN if it is partially contained within the region.

the sp

region : the ID of

GrEqualRegion ()

```
GR_BOOL     GrEqualRegion                          (GR_REGION_ID
```

Fills in the specified rectangle structure with a bounding box that would completely enclose the specified region, and also

Details1.

check the value of it before using it.

`typelist` : pointer used to return

GrSendClientData ()

```
void        GrSendClientData                (GR_WINDOW_ID wid,
                                             GR_WINDOW_ID did,
                                             GR_SERIALNO serial,
                                             GR_LENGTH len,
                                             void *data);
```

Synopsis

```
void        GrReqShmCmds                        (long shmsize);
void
```

machine). Apart from the initial allocation of the area using this call,

GrRegisterInput ()

```
void        GrRegisterInput                 (int fd);
```

Register an extra file descriptor to monitor in the main select() call. An event will be returned when the fd has data waiting to be read if that event has been selected for.

fd : the file descriptor to monitor

GrPrepareSelect ()

```
void        GrPrepareSelect                 (int *maxfd,
                                             void *rfdset);
```

void

Prepare for a GrServiceSelect function by asking the server to send