Rocky Enterprise Linux 9.2 Manual Pages on command 'XtAllocateGC.3'

$ man XtAllocateGC.3

XtAllocateGC(3)   XT FUNCTIONS   XtAllocateGC(3)

NAME

   XtAllocateGC - obtain a sharable GC with modifiable fields

SYNTAX

   #include <X11/Intrinsic.h>

   GC XtAllocateGC(Widget w, Cardinal depth, XtGCMask value_mask, XGCValues *values, XtGCMask

       dynamic_mask, XtGCMask unused_mask);

ARGUMENTS

   values   Specifies the actual values for this GC.

   value_mask

       Specifies which fields of the values are specified.

   w   Specifies the widget.

   depth   Specifies the depth for which the returned GC is valid, or 0.

   dynamic_mask

       Specifies the fields of the GC that will be modified by the caller.

unused_mask

Specifies the fields of the GC that will not be needed by the caller.

DESCRIPTION

The XtAllocateGC function returns a sharable GC that may be modified by the client. The

screen field of the specified widget or of the nearest widget ancestor of the specified

object and the specified depth argument supply the root and drawable depths for which the

GC is to be valid. If depth is zero the depth is taken from the depth field of the speci?

fied widget or of the nearest widget ancestor of the specified object.

The value_mask argument specifies the fields of the GC that will be initialized with the

respective members of the values structure. The dynamic_mask argument specifies fields

that the caller intends to modify during program execution. The caller must ensure that

the corresponding GC field is set prior to each use of the GC. The unused_mask argument

specifies fields of the GC that are of no interest to the caller. The caller may make no

assumptions about the contents of any fields specified in unused_mask. The caller may as?

sume that at all times all fields not specified in either dynamic_mask or unused_mask have

their default value if not specified in value_mask or the value specified by values. If a

field is specified in both value_mask and dynamic_mask, the effect is as if it were speci?

fied only in dynamic_mask and then immediately set to the value in values. If a field is

set in unused_mask and also in either value_mask or dynamic_mask, the specification in un?

used_mask is ignored.

XtAllocateGC tries to minimize the number of unique GCs created by comparing the arguments

with those of previous calls and returning an existing GC when there are no conflicts.

XtAllocateGC may modify and return an existing GC if it was allocated with a nonzero un?

used_mask.

SEE ALSO

XtGetGC

X Toolkit Intrinsics - C Language Interface

Xlib - C Language X Interface