



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

**C:|>man XtAllocateGC.3**

XtAllocateGC(3)                      XT FUNCTIONS                      XtAllocateGC(3)

### NAME

XtAllocateGC - obtain a sharable GC with modifiable fields

### SYNTAX

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 specified 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 assume 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 specified 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 unused\_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 unused\_mask.

## SEE ALSO

XtGetGC

X Toolkit Intrinsic - C Language Interface

X Version 11

libXt 1.1.5

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