

**EAGUI**

<b>COLLABORATORS</b>
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# Chapter 1

## EAGUI

### 1.1 EAGUI.library

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```

### 1.2 EAGUI.library/--background--

#### NAME

EAGUI.library -- Environment Adaptive Graphic User Interface. (V2)

#### PURPOSE

This library was designed to provide a flexible layout engine for your graphic interfaces. It uses an object oriented approach to provide an abstract definition of the contents of a window. The library then can convert this definition into an ordinary list of gadgets, which you can use freely. An important design goal was to make the interface as transparent as possible. This allows you to adapt your existing code easily.

#### COPYRIGHT

Environment Adaptive Graphic User Interface

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Copyright © 1993, 1994  
Frank Groen  
Marcel Offermans

### 1.3 EAGUI.library/--classes--

#### DESCRIPTION

This is a description of the available classes or object types. It particularly describes which tags can be used in which context. Although in most cases other tags are ignored, you shouldn't use them on objects that don't support them, or you'll be in for some nice side effects.

Not all tags can be used under all circumstances. These conditions are described in EAGUI.h. Each tag has three flags: I, S and G. If all of them are set, you can use this tag at Initialization time (when you're using `ea_NewObject()`), and to Get or Set attributes (when using `ea_GetAttr()` or `ea_GetAttrs()` and `ea_SetAttr()` or `ea_SetAttrs()`).

In addition to this documentation, you should also read the GadTools and BOOPSI class documentation, to see how these objects work, and what tags they need.

#### TYPE

global -- Tags that apply to all objects.

#### TAGS

`EA_Parent` - (struct `ea_Object *`) Pointer to the parent object. The current object is linked to this parent.

`EA_Type` - (ULONG) Type of the object. Normally, you specify this as a normal argument when using `ea_NewObject()`.

`EA_Disabled` - (BOOL) Flag which indicates if the object is disabled or not. A disabled object is completely ignored and doesn't take up any space. Disabling objects is a simple mechanism for temporarily removing the objects from the tree.

`EA_ID` - (ULONG) ID of the object, which is also copied to any data the object generates. Gadgets for example will also have this ID stored in their `GadgetID` field.

`EA_MinWidth` - (LONG) Minimum width of an object.

`EA_MinHeight` - (LONG) Minimum height of an object.

`EA_BorderLeft` - (LONG) Left border thickness of an object.

`EA_BorderRight` - (LONG) Right border thickness of an object.

`EA_BorderTop` - (LONG) Top border thickness of an object.

`EA_BorderBottom` - (LONG) Bottom border thickness of an object.

---

EA\_Left - (LONG) Left offset of an object relative to its parent.

EA\_Top - (LONG) Top offset of an object relative to its parent.

EA\_Width - (LONG) Actual width of the object.

EA\_Height - (LONG) Actual height of the object.

EA\_Weight - (ULONG) Weight of the object.

EA\_UserData - (VOID \*) Pointer to user supplied data, which can be used to add information to certain objects, and is mainly useful in conjunction with custom methods. (V2)

EA\_MinSizeMethod - (struct Hook \*) Pointer to an initialized Hook for the minimum size method. Hooks are described in the `utility.library`. This method takes the following arguments:

```
ULONG hookfunction(struct Hook *, struct ea_Object *, APTR);
```

The third argument is always NULL at the moment. The most important argument is the second one, which points at the object whose minimum size EAGUI wants determined. For details on how to implement such a method, take a look at the tutorial.

EA\_BorderMethod - (struct Hook \*) Pointer to an initialized Hook for the border method. Takes the same hook arguments as the `EA_MinSizeMethod` hook.

EA\_RenderMethod - (struct Hook \*) Pointer to an initialized Hook for the render method. This method takes the following arguments:

```
ULONG hookfunction(struct Hook *, struct ea_Object *,  
    struct ea_RenderMessage *);
```

The third argument, a pointer to a `ea_RenderMessage` structure, contains additional information which is needed for rendering the object. The second one, which points at the object that should be rendered. For details on how to implement such a method, take a look at the tutorial. (V2)

EA\_GetStateMethod - (struct Hook \*) Pointer to an initialized Hook for the state retrieval method. Not implemented.

EA\_SetStateMethod - (struct Hook \*) Pointer to an initialized Hook for the state restoration method. Not implemented.

EA\_FirstChild - (struct ea\_Object \*) Pointer to the first child of the object. Returns NULL if the object has no children.

EA\_NextObject - (struct ea\_Object \*) Pointer to the next object on the same level. Returns NULL if there is no next object (ie. when the current object is the last object in the list).

EA\_StandardMethod - (ULONG) Set of flags, that determine if the object should use any standard built-in methods. Flags can be OR'ed together. Currently, the following flags are supported:

EASM\_NONE - Use no standard methods.  
EASM\_MINSIZE - Use a standard method to determine the minimum size of the object.  
EASM\_BORDER - Use a standard method to determine the size of the borders around an object.

Please note that not all object types have standard methods. Currently, all GadTools gadgets have EASM\_MINSIZE and EASM\_BORDER methods.

#### TYPE

EA\_TYPE\_VGROUP -- A vertical group of objects.  
EA\_TYPE\_HGROUP -- A horizontal group of objects.

#### TAGS

EA\_Child - (struct ea\_Object \*) Pointer to a child object. If you pass a NULL pointer here, the whole object creation process will fail. This means that if you're creating a group with children, and one of them can't be created, the creation of the group will also fail.

#### TYPE

EA\_TYPE\_GTGADGET -- A GadTools gadget.

#### TAGS

EA\_Instance - (APTR) Pointer to a generated object. This can be a gadget or image pointer, depending on the object type.

EA\_InstanceAddress - (APTR \*) Address of a pointer where the pointer to the generated object is stored.

EA\_GTType - (ULONG) Type of the GadTools gadget (#?\_KIND) (see also gadtools.library/CreateGadget()).

EA\_GTTagList - (struct TagItem \*) Pointer to an array of tags (see also gadtools.library/CreateGadget()).

EA\_GTText - (STRPTR) Gadget text (see also gadtools.library/CreateGadget()).

EA\_GTTextAttr - (struct TextAttr \*) Pointer to a text attribute structure (see also gadtools.library/CreateGadget()).

EA\_GTFlags - (ULONG) Special flags (see also gadtools.library/CreateGadget()).

#### TYPE

EA\_TYPE\_BOOPSIGADGET -- A BOOPSI gadget.

#### TAGS

EA\_Instance - (APTR) Pointer to a Gadget structure. In true OO style, this should only be used to identify the object. That's why it's cast as an APTR.

---

EA\_InstanceAddress - (APTR \*) Address of a pointer where the pointer to the generated gadget is stored.

EA\_BOOPSIPrivClass - (APTR) Pointer to a generated private BOOPSI class (see also intuition.library/NewObject()).

EA\_BOOPSIPubClass - (STRPTR) Pointer to the name of a public BOOPSI class (see also intuition.library/NewObject()).

EA\_BOOPSITagList - (struct TagItem \*) Pointer to an array of tags.

#### TYPE

EA\_TYPE\_CUSTOMIMAGE -- A custom image.

#### TAGS

none

#### NOTES

This object type was designed for custom rendering. You can use the Render method to link your rendering function to the object. Also, you can use this object as an empty spaceholder.

#### TYPE

EA\_TYPE\_BOOPSIIMAGE -- (not implemented)

#### TAGS

none

## 1.4 EAGUI.library/ea\_CreateGadgetList()

#### NAME

ea\_CreateGadgetList -- Create the gadgets as defined in the objects (V1)

#### SYNOPSIS

```
result = ea_CreateGadgetList(obj_ptr, glist_ptr_ptr, vi_ptr,
                             D0          A0          A1          A2
                             draw_ptr)
                             A3
```

```
LONG ea_CreateGadgetList(struct ea_Object *, struct Gadget **, APTR,
                        struct DrawInfo *);
```

#### FUNCTION

This function goes through the tree of objects and creates BOOPSI and GadTools gadgets. All gadgets are created using the VisualInfo and DrawInfo that are passed as arguments to this function.

The result is a pointer to a gadgetlist that can be added to a window. This pointer will be stored in the address that was passed as an argument to this function.

#### INPUTS



obj\_ptr - Root object of the hierarchical structure to be searched for gadgets.  
 glist\_ptr\_ptr - Valid pointer to the place where the pointer to the gadgetlist should be stored.  
 vi\_ptr - Valid pointer to a VisualInfo structure.  
 draw\_ptr - Valid pointer to a DrawInfo structure. Note that if you do not use any BOOPSI gadgets or images, this pointer may be NULL. This is discouraged, and may change in the future.

#### RESULT

result - returncode, as defined in EAGUI.h.

#### SEE ALSO

ea\_FreeGadgetList()

## 1.5 EAGUI.library/ea\_DisposeObject()

#### NAME

ea\_DisposeObject -- Deletes an object. (V1)

#### SYNOPSIS

```
ea_DisposeObject(obj_ptr)
                A0
```

```
VOID ea_DisposeObject(struct ea_Object *);
```

#### FUNCTION

Deletes an object and all of its auxiliary data. These objects are all created by ea\_NewObject(). Objects of certain classes "own" other objects, which will also be deleted when the object is passed to ea\_DisposeObject(). Read the per-class documentation carefully to be aware of these instances.

#### INPUTS

obj\_ptr - Pointer to the object to be deleted.

#### SEE ALSO

ea\_NewObject()

## 1.6 EAGUI.library/ea\_FreeGadgetList()

#### NAME

ea\_FreeGadgetList -- Free all gadgets in a list. (V1)

#### SYNOPSIS

```
ea_FreeGadgetList(obj_ptr, glist_ptr)
                A0      A1
```

```
VOID ea_FreeGadgetList(struct ea_Object *, struct Gadget *);
```

#### FUNCTION

All BOOPSI and GadTools gadgets that were created by

`ea_CreateGadgetList()` are cleaned up. It is important that the gadgetlist is not connected to a window. The objects are not cleaned up.

#### INPUTS

`obj_ptr` - Root object of the hierarchical structure to be searched for gadgets.  
`glist_ptr` - Valid pointer to the the gadgetlist.

#### SEE ALSO

`ea_CreateGadgetList()`, `intuition.library/RemoveGList()`

## 1.7 EAGUI.library/ea\_GetAttr()

#### NAME

`ea_GetAttr` -- Inquire the value of an attribute of an object. (V1)

#### SYNOPSIS

```
value = ea_GetAttr(obj_ptr, attribute)
D0                      A0          D0

ULONG ea_GetAttr(struct ea_Object *, ULONG);
```

#### FUNCTION

Inquires from the specified object the value of an attribute.

#### INPUTS

`obj_ptr` - Pointer to the object.  
`attribute` - Tag value of the attribute.

#### RESULT

`value` - Value of the attribute.

#### SEE ALSO

`ea_GetAttrs()`, `--classes--`

## 1.8 EAGUI.library/ea\_GetAttrsA()

#### NAME

`ea_GetAttrsA` -- Inquire the value of some attributes of an object. (V1)  
`ea_GetAttrs` -- Varargs stub for `ea_GetAttrsA()`. (V1)

#### SYNOPSIS

```
count = ea_GetAttrsA(obj_ptr, taglist_ptr)
D0                      A0          A1

ULONG ea_GetAttrsA(struct ea_Object *, struct TagItem *);

count = ea_GetAttrs(obj_ptr, firsttag, ...)

ULONG ea_GetAttrs(struct ea_Object *, ULONG, ...);
```

**FUNCTION**

Inquires from the specified object the value of the attributes specified in the taglist.

You always pass the addresses of the long variables, which will receive the same value that would be passed to `ea_SetAttrs()` in the `ti_Data` portion of a `TagItem` element.

Not all attributes will respond to this function. Those that will are documented on a class-by-class basis.

The function returns the number of attributes it obtained. It tries to obtain as many attributes as possible, so don't think that if for example 3 out of 4 arguments were obtained, that the last one was `_not_` obtained. It may just as well be the first (or second, or third) one.

**INPUTS**

`obj_ptr` - Pointer to the object.  
`taglist_ptr` - Pointer to the taglist.

**RESULT**

`count` - Number of attributes obtained.

**SEE ALSO**

`ea_GetAttr()`, `ea_SetAttrs()`, `--classes--`

## 1.9 EAGUI.library/ea\_GetMinSizes()

**NAME**

`ea_GetMinSizes` -- Calculate minimum object sizes. (V1)

**SYNOPSIS**

```
ea_GetMinSizes(obj_ptr)
               A0
```

```
VOID ea_GetMinSizes(struct ea_Object *);
```

**FUNCTION**

This function calculates the minimum sizes of all of the objects that are in the hierarchical tree of which you pass the root object. For doing this, `ea_GetMinSizes()` uses the methods you supplied when defining the object tree. A number of methods can be found in the `EAGUI_METHODS`, but it is possible to write your own methods, following a few simple rules.

The minimum size of an object does not include the space that is needed for its borders.

The minimum sizes are directly filled into the objects. They may only be read using `ea_GetAttrs()`.

**INPUTS**

`obj_ptr` - Pointer to the root object of the hierarchical tree. If

this pointer is NULL, the function returns immediately.

SEE ALSO

ea\_LayoutObjects()

## 1.10 EAGUI.library/ea\_GetObjectLeft()

NAME

ea\_GetObjectLeft -- Get the left offset to an object (V1)

SYNOPSIS

```
left = ea_GetObjectLeft(root_ptr, obj_ptr)
D0                      A0          A1
```

```
LONG ea_GetObjectLeft(struct ea_Object *, struct ea_Object *);
```

FUNCTION

This function returns the left offset from the upperleft corner of one object to the upperleft corner of another. The second object should branch down from the first object, otherwise the function will return garbage. Please make sure that this is the case!

INPUTS

root\_ptr - Pointer to the object the left offset should be calculated from. It should be higher in the hierarchical tree. If this pointer is NULL, the function returns immediately.  
obj\_ptr - Pointer to the object the left offset should be calculated to. It should be lower in the hierarchical tree. If this pointer is NULL, the function returns immediately.

RESULT

left - The left offset from a root object to another object.

SEE ALSO

ea\_GetObjectTop()

## 1.11 EAGUI.library/ea\_GetObjectTop()

NAME

ea\_GetObjectTop -- Get the top offset to an object (V1)

SYNOPSIS

```
top = ea_GetObjectTop(root_ptr, obj_ptr)
D0                      A0          A1
```

```
LONG ea_GetObjectTop(struct ea_Object *, struct ea_Object *);
```

FUNCTION

This function returns the top offset from the upperleft corner of one object to the upperleft corner of another. The second object should branch down from the first object, otherwise the function will return garbage. Please make sure that this is the case!

---

## INPUTS

root\_ptr - Pointer to the object the top offset should be calculated from. It should be higher in the hierarchical tree. If this pointer is NULL, the function returns immediately.

obj\_ptr - Pointer to the object the top offset should be calculated to. It should be lower in the hierarchical tree. If this pointer is NULL, the function returns immediately.

## RESULT

top - The top offset from a root object to another object.

## SEE ALSO

ea\_GetObjectLeft()

## 1.12 EAGUI.library/ea\_LayoutObjects()

## NAME

ea\_LayoutObjects -- Calculates the actual object dimensions and positions. (V1)

## SYNOPSIS

```
ea_LayoutObjects(obj_ptr)
                A0
```

```
VOID ea_LayoutObjects(struct ea_Object *);
```

## FUNCTION

This function calculates the dimensions of all objects in the hierarchical tree of which you pass the root object. The dimensions of the root object should be filled in before you call this function. This function is normally called after you've opened a new window, or after someone has resized a window. The minimum sizes of the objects should already be calculated, using ea\_GetMinSizes().

For every horizontal or vertical group that is in the tree, this function does the following. The available height or width of the (vertical or horizontal) group object is decreased by the space needed for the borders of the child objects. Also the objects with weight 0 get their minimum dimensions, and the available space is decreased accordingly.

The space that is left, is divided amongst the remaining children. Each child gets dimensions depending on its weight factor, but if this would result in an object which would be too small, the minimum size of the object is used instead. The other dimension of the children (the height for horizontal groups, the width for vertical ones) is always equal to the height or width of the group object decreased by the child objects' borders.

After the space has been divided, the positions of the objects relative to their parents are calculated. This position is given as an offset from the top-left corner of the parent object to the top-left corner of the child object's border. Note that if you want to calculate the position of the object itself (again, relative to

its parent), you should add the left and top border to the offset values.

#### INPUTS

obj\_ptr - Pointer to the root object of the hierarchical tree. If this pointer is NULL, the function returns immediately.

#### SEE ALSO

ea\_GetMinSizes()

## 1.13 EAGUI.library/ea\_NewObjectA()

#### NAME

ea\_NewObjectA -- Create a new object. (V1)  
 ea\_NewObject -- varargs stub for ea\_NewObjectA(). (V1)

#### SYNOPSIS

```
obj_ptr = ea_NewObjectA(type, taglist_ptr)
D0          D0      A0

struct ea_Object *ea_NewObjectA(ULONG, struct TagItem *);

obj_ptr = ea_NewObject(type, firsttag, ...)

struct ea_Object *ea_NewObject(ULONG, ULONG, ...);
```

#### FUNCTION

This is the general method of creating objects.

You specify a class by its type, which is passed as a number.

You further specify initial "create-time" attributes for the object via a TagItem list, and they are applied to the resulting generic data object that is returned. The attributes, their meanings, attributes applied only at create-time, and required attributes are all defined and documented on a class-by-class basis.

#### INPUTS

type - Type of object class you want to create.  
 taglist\_ptr - Pointer to array of TagItems containing attribute/value pairs to be applied to the object being created.

#### RESULT

obj\_ptr - An object, which may be manipulated by generic functions. You eventually free the object using ea\_DisposeObject().

#### SEE ALSO

EAGUI.h, EAGUI\_macros.h, --classes--

## 1.14 EAGUI.library/ea\_NewRelationA()

## NAME

```
ea_NewRelationA -- Create a new relation. (V1)
ea_NewRelation -- Varargs stub for ea_NewRelationA. (V1)
```

## SYNOPSIS

```
result = ea_NewRelationA(obj_ptr, hook_ptr, taglist_ptr)
D0                      A0          A1          A2

LONG ea_NewRelationA(struct ea_Object *, struct Hook *,
    struct TagItem *);

result = ea_NewRelation(obj_ptr, hook_ptr, firsttag, ...)

LONG ea_NewRelation(struct ea_Object *, struct Hook *, ULONG, ...);
```

## FUNCTION

Create a relation between children of `obj_ptr`. The relation is passed through a hook. The children are passed via the tags. Please note that these children must all be direct descendants of `obj_ptr`.

The hook function is called when `ea_GetMinSizes()` is invoked. Like all hooks, it receives the following arguments:

```
HookFunc(struct Hook *hook_ptr, struct List *list_ptr, APTR
    msg_ptr)
```

Currently, the `msg_ptr` is not used and should be ignored. Your method should walk through the list of `ea_RelationObjects`, and it may modify their `EA_MinWidth` and `EA_MinHeight` attributes.

Returncodes from the hook function are currently ignored, but you should return 0 for success. Future versions may check for returncodes.

## INPUTS

```
obj_ptr - Pointer to the object to which the relation is added.
hook_ptr - Pointer to a hook containing the relation method.
taglist_ptr - Pointer to the taglist. The only supported tag is
    EA_Object. The data field should contain a pointer to an
    object.
```

## RESULT

```
result - returncode as described in EAGUI.h.
```

## SEE ALSO

```
utility/hooks.h
```

## 1.15 EAGUI.library/ea\_RenderObjects()

## NAME

```
ea_RenderObjects -- Renders all objects that have a render method.
(V2)
```

## SYNOPSIS

```
ea_RenderObjects(obj_ptr, rastport_ptr)
                A0      A1
```

```
VOID ea_RenderObjects(struct ea_Object *, struct RastPort *);
```

#### FUNCTION

Renders an object and all its children. For each object, the render method hook is called. This function should be used to render images, since gadgets are rendered by Intuition and GadTools.

#### INPUTS

obj\_ptr - Pointer to the object to be rendered. This must be the same object that was used to create the gadget list.

rastport\_ptr - Pointer to the RastPort the render methods will use for rendering.

#### SEE ALSO

ea\_CreateGadgetList()

## 1.16 EAGUI.library/ea\_SetAttr()

#### NAME

ea\_SetAttr -- Specify attribute value for an object. (V1)

#### SYNOPSIS

```
result = ea_SetAttr(obj_ptr, attribute, value)
D0      A0      D0      D1
```

```
ULONG ea_SetAttr(struct ea_Object *, ULONG, ULONG);
```

#### FUNCTION

Specifies an attribute/value pair with meaning as defined by an object's class.

This function does not provide enough context information or arbitration for gadgets which are attached to windows or requesters.

#### INPUTS

obj\_ptr - Pointer to an object.  
attribute - Tag value of an attribute.  
value - Value of the attribute.

#### RESULT

result - Returns 0 for success.

#### SEE ALSO

ea\_SetAttrs(), --classes--

## 1.17 EAGUI.library/ea\_SetAttrsA()



## NAME

ea\_SetAttrsA -- Specify attribute values for an object. (V1)  
 ea\_SetAttrs -- Varargs stub for ea\_SetAttrsA(). (V1)

## SYNOPSIS

```
result = ea_SetAttrsA(obj_ptr, taglist_ptr)
D0                      A0          A1

ULONG ea_SetAttrsA(struct ea_Object *, struct TagItem *);

result = ea_SetAttrs(obj_ptr, firsttag, ...)

ULONG ea_SetAttrs(struct ea_Object *, ULONG, ...);
```

## FUNCTION

Specifies a set of attribute/value pairs with meaning as defined by an object's class.

This function does not provide enough context information or arbitration for gadgets which are attached to windows or requesters.

## INPUTS

obj\_ptr - Pointer to an object.  
 taglist\_ptr - Pointer to an taglist.

## RESULT

result - Returns 0 for success.

## SEE ALSO

ea\_SetAttr(), ea\_GetAttrs(), --classes--

## 1.18 EAGUI.library/ea\_TextHeight()

## NAME

ea\_TextHeight -- Determine the pixelheight of a text (V1)

## SYNOPSIS

```
height = ea_TextHeight(textattr_ptr)
D0                      A0

LONG ea_TextHeight(struct TextAttr *);
```

## FUNCTION

This function determines the height of the font in pixels.

## INPUTS

textattr\_ptr - Pointer to a TextAttr structure. It is safe to pass a NULL pointer here, in which case the function will return zero.

## RESULT

height - Height in pixels, or zero if the height couldn't be determined.

SEE ALSO  
    ea\_TextLength()

## 1.19 EAGUI.library/ea\_TextLength()

### NAME

ea\_TextLength -- Determine the pixellength of a string. (V1)

### SYNOPSIS

```
length = ea_TextLength(textattr_ptr, string_ptr, underscore)
D0                                A0                                A1                                D0
```

```
LONG ea_TextLength(struct TextAttr *, STRPTR, UBYTE);
```

### FUNCTION

Determine the pixellength of a given string using the font described in the given TextAttr structure. If the string contains an underscore character that is used (by GadTools) as an underline marker, set the underscore argument to the character that is used as a marker.

### INPUTS

textattr\_ptr - Pointer to a TextAttr structure. It is safe to pass a NULL pointer here, in which case the function will return zero.  
string\_ptr - Pointer to the string. It is safe to pass a NULL pointer here, in which case the function will return zero.  
underscore - ASCII value of the character that is used to indicate an underlined character. If you don't want this correction, simply pass a value of zero.

### RESULT

length - The pixellength of the string, or zero if the length couldn't be determined.

SEE ALSO  
    ea\_TextHeight(), graphics.library/TextLength()

---