

07a33da8-0

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REVISION HISTORY

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Chapter 1

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1.1 AFGadget

Gadtet C++ Object

Intuition Gadget Wrapper

AFrame Version 1.0

Gadget Object Version 1.0

(c) 1995,1996 Jeffry A Worth
Deryk B Robosson

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1.2 Gadget Object Information

AFGadget/Object Information

The Gadget Object was written to provide a C++ Object Class interface for the Intuition Gadget. Gadget Management with this class makes things much easier for the programmer. ↔

1.3 AFGadget

AFGadget/AFGadget

NAME AFGadget ()

DESCRIPTION

Default class constructor. Adds the gadget from the gadget list and window assigned to. Modify this only if you wish each class to have the modifications

INPUTS

none

RESULT

none

BUGS

none known

SEE ALSO

~AFGadget

1.4 ~AFGadget

AFGadget/~AFGadget

NAME ~AFGadget ()

DESCRIPTION

Default class destructor. Removes the gadget from the gadget list and window assigned to. Modify this only if you wish each class to have the modifications

INPUTS

none

RESULT

none

BUGS

none known

SEE ALSO

AFGadget

1.5 Create

AFGadget/Create

NAME Create()

```
void = Create(AFWindow* pwindow, AFRect *rect, ULONG id)
```

DESCRIPTION

Creates a gadget in pwindow with size and coordinates rect with GadID of id

INPUTS

pwindow - pointer to window to receive the status bar
rect - AFRect struct which shows size and position of gadget
id - gadget id

RESULT

none

BUGS

none known

SEE ALSO

AFWindow
AFRect

1.6 FillGadgetStruct

AFGadget/FillGadgetStruct

NAME FillGadgetStruct()

```
void = FillGadgetStruct(LPGadget psgadget)
```

DESCRIPTION

Fills the gadget struct when `AFGadget::Create` is called with default values. This function is used internally only

INPUTS

`psgadget` - pointer to the gadget struct to be filled

RESULT

none

BUGS

none known

SEE ALSO

`LPGadget`

1.7 AddGadget

`AFGadget/AddGadget`

NAME `AddGadget()`

`void = AddGadget()`

DESCRIPTION

Adds the gadget to the gadget list

NOTE

This function is used internally only

INPUTS

none

RESULT

none

BUGS

none known

SEE ALSO

`RemoveGadget`

1.8 RemoveGadget

`AFGadget/RemoveGadget`

NAME `RemoveGadget()`

`void = RemoveGadget()`

DESCRIPTION

Removes the gadget from the gadget list

NOTE

This function is used internally only

INPUTS

none

RESULT

none

BUGS

none known

SEE ALSO

AddGadget

1.9 OnGadgetDown

AFGadget/OnGadgetDown

NAME OnGadgetDown()

void = OnGadgetDown(LPIntuiMessage)

DESCRIPTION

This function calls the gadgets OnGadgetDown function. You may override this function for your own purposes.

INPUTS

none

RESULT

none

BUGS

none known

SEE ALSO

OnGadgetUp

1.10 OnGadgetUp

AFGadget/OnGadgetUp

NAME OnGadgetUp()

void = OnGadgetUp(LPIntuiMessage)

DESCRIPTION

This function calls the gadgets OnGadgetUp function. You may override this

function for your own purposes.

INPUTS

none

RESULT

none

BUGS

none known

SEE ALSO

OnGadgetDown

1.11 OnPaint

AFGadget/OnPaint

NAME OnPaint()

void = OnPaint()

DESCRIPTION

This function calls the gadgets OnPaint function. You may override this function for your own purposes.

INPUTS

none

RESULT

none

BUGS

none known

SEE ALSO

1.12 Misc Members

AFGadget/Misc Members

m_pgadget

m_pwindow

m_flags

1.13 Includes

```

/////////////////////////////////////////////////////////////////
// gadget.hpp
//
// Jeffrey A Worth
// November 10, 1995
/////////////////////////////////////////////////////////////////

#ifndef __GADGET_HPP__
#define __GADGET_HPP__

/////////////////////////////////////////////////////////////////
// INCLUDES
#include "aframe:include/aframe.hpp"
#include "aframe:include/window.hpp"
#include "aframe:include/rect.hpp"

/////////////////////////////////////////////////////////////////
// Definitions

#define AFGADGET_OWNERSTRUCT 0x80000000

/////////////////////////////////////////////////////////////////
// Gadget Class

class AFGadget : public AFObject
{
public:
    AFGadget ();
    ~AFGadget ();

    virtual void DestroyObject ();
    virtual char *ObjectType () { return "Gadget"; };

    virtual void Create (AFWindow* pwindow, AFRect *rect, ULONG id);
    virtual void Create (AFWindow* pwindow, LPGadget psgadget);
    virtual void FillGadgetStruct (LPGadget psgadget);
    virtual void AddGadget ();
    virtual void RemoveGadget ();

    // Events
    virtual void OnGadgetDown (LPIntuiMessage) { return; };
    virtual void OnGadgetUp (LPIntuiMessage) { return; };
    virtual void OnPaint () { return; };

    LPGadget m_pgadget;
    AFWindow *m_pwindow;
    ULONG m_flags;
};

/////////////////////////////////////////////////////////////////
#endif // __GADGET_HPP__

```

1.14 Source

```
////////////////////////////////////
// gadget.cpp
//
// Jeffrey A Worth
// Nov 9, 1995
////////////////////////////////////

////////////////////////////////////
// INCLUDES
#include "aframe:include/gadget.hpp"

////////////////////////////////////
//

AFGadget::AFGadget ()
{
    m_pgadget = NULL;
    m_flags = NULL;
}

AFGadget::~AFGadget ()
{
    // When the Window object is destroyed, all AFGadgets get their DestroyObject
    // method called. To remove the CGadget from the window without destroying
    // the window, the user must call the DestroyObject method.
}

void AFGadget::DestroyObject ()
{
    if(m_pgadget && (!(m_flags & AFGADGET_OWNERSTRUCT)) ) {
        RemoveGadget ();
        delete m_pgadget;
        m_pgadget = NULL;
        m_flags = NULL;
    }
}

void AFGadget::Create (AFWindow* pwindow, AFRect *rect, ULONG id)
{
    m_pwindow = pwindow;
    m_pgadget = new struct Gadget;
    m_pgadget->NextGadget = NULL;
    m_pgadget->LeftEdge = rect->TopLeft ()->m_x;
    m_pgadget->TopEdge = rect->TopLeft ()->m_y;
    m_pgadget->Width = rect->Width ();
    m_pgadget->Height = rect->Height ();
    m_pgadget->GadgetID = id;
    FillGadgetStruct (m_pgadget);
    m_pgadget->UserData = this;

    // Gadget Tracking - Not implemented yet!
    //m_pwindow->m_pgadgets = new AFNode (m_pgadget, m_pwindow->m_pgadgets);

    AddGadget ();
    return;
}
```

```

void AFGadget::Create(AFWindow* pwindow, LPGadget psgadget)
{
    // Set up OWNERSTRUCT Gadget
    m_pgadget = psgadget;
    m_pwindow = pwindow;
    m_flags |= AFGADGET_OWNERSTRUCT;
    psgadget->UserData = this;

    // Gadget Tracking - Not implemented yet!
    // m_pwindow->m_pgadgets = new CNode(m_pgadget,m_pwindow->m_pgadgets);

    AddGadget();
}

void AFGadget::FillGadgetStruct(LPGadget psgadget)
{
    psgadget->Flags = GFLG_GADGHCOMP;
    psgadget->Activation = GACT_RELVERIFY | GACT_IMMEDIATE;
    psgadget->GadgetType = GTYP_BOOLGADGET;
    psgadget->GadgetRender = NULL;
    psgadget->SelectRender = NULL;
    psgadget->GadgetText = NULL;
    psgadget->MutualExclude = NULL;
    psgadget->SpecialInfo = NULL;
    return;
}

void AFGadget::AddGadget()
{
    ::AddGadget(m_pwindow->m_pWindow,m_pgadget,-1);
}

void AFGadget::RemoveGadget()
{
    ::RemoveGadget(m_pwindow->m_pWindow,m_pgadget);
}

```

1.15 History

HISTORY

```

*****
Gadget Object v1.0

Created November 10, 1995
Release November 11, 1995

- Created all function class objects.
*****

```

1.16 Distribution

Distribution

The programs and files in this distribution are freely distributable, but are also Copyright (c) Jeff Worth and Deryk Robosson. They may be freely distributed as long as no more than a nominal fee is charged to cover time and copying costs. AFrame is distributed as non-crippled shareware, it is fully functional.

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If these conditions are met you are allowed to include the Kickstart 2.0 or higher version of `aframe.library` and the installation script(s) with your commercial product.

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If you include AFrame with a crippled shareware program I'd like to ask you to send us a full working version.

Whether your program is freely distributable or commercial, you must state in your documentation that your program uses `aframe.library` and that AFrame is Copyright (c) Jeff Worth and Deryk Robosson

1.17 m_pgadget

AFGadget/m_pgadget

MEMBER TYPE
LPGadget

DESCRIPTION
Used to maintain a pointer to the gadget object

SEE ALSO
LPGadget

1.18 m_pwindow

AFGadget/m_pwindow

MEMBER TYPE
AFWindow

DESCRIPTION
Used to maintain a pointer to the parent window in which the gadget object resides

SEE ALSO
AFWindow

1.19 m_flags

AFGadget/m_flags

MEMBER TYPE
ULONG

DESCRIPTION
Contains the flags for each gadget class object

SEE ALSO
