Subject: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Wed, 17 Nov 2010 16:46:52 GMT
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hi guys

in my struggle with a 'scriptable' layout for OSC interfaces i came along the need / idea to make the controls more open to manipulation in terms of their properties (not the hardwired things like callbacks).

so one could imagine a uniform interface like

```
void Ctrl::SetProperty(const String& name, const Value& v);
void Ctrl::GetProperty(const String& name, Value& v);
```

now this would enable / map things like

```
c.SetProperty("background", Black);
c.GetProperty("background", v);

c.SetProperty("min", 123);
c.GetProperty("max", v);

c.SetProperty("xalign", "left");
c.SetProperty("xpos", 123);
c.SetProperty("yalign", "center");
c.SetProperty("ypos", 45);

c.SetProperty("pattern", "%.g");
c.SetProperty("grid" ValueArray(Vector<int>() << 5 << 6));

//would map to GetData / SetData directly i.e.
c.SetProperty("data", 345);
c.GetProperty("data", v);

c.GetProperty("count", v);

c.SetProperty("enable", true);
c.GetProperty("enable, v);

c.SetProperty("show", false);
c.SetProperty("title", "MyTitle");
c.SetProperty("tip", "GoHelp");

//query all getable properties
c.GetProperty("rprops", v);
//query all setable properties
```

c.GetProperty("wprops", v);

..
and many more..

this would ease things like a custom gui creation / live edit of controls..

this is just an idea, where std Ctrl could already map to a lot of things by itself.. and derived Ctrls simply extending the 'dictionary' of properties and managing the properties..

i imagine to extend it on template base if not desired in upp, but having a uniform polymorphic interface already from Ctrl level would help a great deal in this.

i might provide an example implementation soon..
just wanted to know your opinion.

cheers

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 18 Nov 2010 14:12:47 GMT
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got something working, almost the way desired, and without manipulating Ctrl..

it's Callback map based approach to handlers.. using public interface of the controls. the lack of virtualisation made it nessessary to pay attention to the derive hierarchy, to invoke things from base first.

attached is a test
comments/ideas..

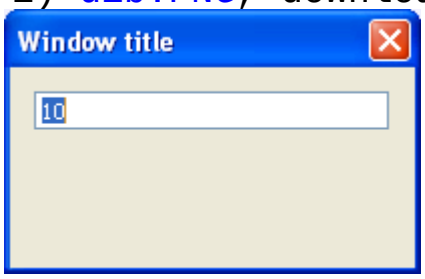
File Attachments
1) CtrlProp.rar, downloaded 523 times

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by koldo on Thu, 18 Nov 2010 17:28:10 GMT
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Hello kohait00

This is the window. How is it used?

File Attachments
1) dib.PNG, downloaded 1996 times



Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 18 Nov 2010 19:03:29 GMT
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sorry, the 'test' case was just veeeeery brief to be able to look at the 'api'.. it was just to show that the respective calls to SetData() has arrived successfully..

the api is very simple

bool SetProperty(Ctrl& c, const String& n, const Value& v);
bool GetProperty(const Ctrl&, const String& n, Value& v);

both return false if no property with name n could be found for Ctrl& c. or if in case of SetProperty the Value v had incompatible type..

this is just a very bried first - shot idea, without need of manipulating Ctrl at all but still yielding full support to all top level Ctrls. in this case it is an EditInt beeing passed as Ctrl&, and still can set Min and Max values...so this is a uniform api.

my point is to have a feedback on wheather stuff like that is of use or if there is a more intelligent way to export and access properties of controls in a uniform way other than the pure compile time c++ api, but also as runtime manipulation api..

cheers

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 18 Nov 2010 22:20:47 GMT
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here comes a new Test Case, which i think shows where the idea was going to..

a 'dynamic' property list editor...

i am still not happey with the 'listget' and 'listset' option, but i cant imagine how to filter them out in

an effective way..

ideas..

File Attachments

1) CtrlPropTest.rar, downloaded 583 times

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Wed, 24 Nov 2010 16:51:09 GMT
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hi guys, is there any ideas on that one?
i'd need to know if it's worth to go in that direction, especially in terms of setting up an OSC controls layout
hope not to come harsh..

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by mirek on Sat, 27 Nov 2010 17:31:05 GMT
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Perhaps I could express my opinion if I knew what is "osc control"

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Sun, 28 Nov 2010 10:01:59 GMT
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in fact, i started a post about osc, which has drifted towards audio interface things in u++

osc is actually a parameters manipulating language / message protocol. there are applications, where one can put together control elements, and assign them osc patterns (the parameters they will be operating on) and thus have remote control interfaces..

these interfaces can be created in layout editors, where one can edit the controls' properties, like size, position etc..

see
http://hexler.net/software/touchosc
there is also an editor to download...

http://opensoundcontrol.org/spec-1_0
the specification

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Tue, 30 Nov 2010 20:12:48 GMT
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any idea if/how this can be done better?

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by mirek on Wed, 01 Dec 2010 08:00:35 GMT
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I would use some nice macros to automate the most of process...

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Wed, 01 Dec 2010 09:04:46 GMT
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i think macros wont do in my case..since i need it at runtime. macros would fix everything at compile time..

or did i get you wrong? some example?

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by mirek on Wed, 01 Dec 2010 17:00:26 GMT
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kohait00 wrote on Wed, 01 December 2010 04:04i think macros wont do in my case..since i need it at runtime. macros would fix everything at compile time..

or did i get you wrong? some example?

Oh, no, I mean macros to automate what you are already doing, just with less code.

I believe that something like

```
CTRL_PROPERTIES(EditInt)
   PROPERTY(int, Min)
   PROPERTY_SET(bool, "NotNull", NotNull)
   PROPERTY_GET(bool, "NotNull", IsNotNull)
END_CTRL_PROPERTIES
```

should be possible.

Mirek

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Wed, 01 Dec 2010 19:22:44 GMT
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that is, ofcorse better in terms of API, lets see how to fit that in. my problem is that i actually dont want to mess with Ctrl stuff. trying to extend it from public interface point of view, idea is to have typeid() do the entrance point from where to start parsing the properties..and need to resemble a bit the derive hierarchy if meaningfull..
thanks for the hint.

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 02 Dec 2010 07:44:15 GMT
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still not what i am proud of, but first scores are done
i think this is quite helpful for dynamic control editing..

File Attachments
1) CtrlPropTest.rar, downloaded 495 times

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 02 Dec 2010 08:24:08 GMT
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BTW: found 2 const correctness issues in CtrlCore.h

CtrlCore.h:1199

```
bool    IsInitFocus() const             { return initfocus; }
```

CtrlCore.h:1249

```
int     GetBackPaint() const            { return backpaint; }
```

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by mirek on Thu, 02 Dec 2010 10:03:52 GMT
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kohait00 wrote on Wed, 01 December 2010 14:22that is, ofcorse better in terms of API, lets see how to fit that in. my problem is that i actually dont want to mess with Ctrl stuff. trying to extend it from public interface point of view, idea is to have typeid() do the entrance point from where to start parsing the properties..and need to resemble a bit the derive hierarchy if meaningfull.. thanks for the hint.

I would rather go with dynamic_cast... Makes more sense.

Mirek

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 02 Dec 2010 10:18:00 GMT
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what would be the benefit in terms of organisation of the callback structures? you mean to automate the checking for even unregistered types? that would probably be an advantage, but then, i'd have to check for a whole bunch of types (performance) for each property. i couldnt use mapping anymore..

a help would be so kind of a

virtual String Ctrl::PropertyHook() const { return "Upp::Ctrl"; }

which i could use for querying maps..
then, derived controls, that dont extend property stuff would still be mapped easily (because their base specifies the hook correctly)..but this means extending the Ctrl API. but only this one single method..what do you think about it?

a EditInt i.e would, then, need to

virtual String EditInt::PropertyHook() const { return "Upp::EditInt"; }

to anounce, that it wants own property entrance in the map

also, String(typeid(CLASSNAME).name()) could be used..

then, a #define would do it to anounc

#define HASPROPERTY \
virtual String PropertyHook() const { return String(typeid(CLASSNAME).name()); }

Subject: Re: GetProperty() / SetProperty() for Ctrl

Posted by mirek on Thu, 02 Dec 2010 10:22:21 GMT
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kohait00 wrote on Thu, 02 December 2010 05:18what would be the benefit in terms of organisation of the callback structures? you mean to automate the checking for even unregistered types? that would probably be an advantage, but then, i'd have to check for a whole bunch of types (performance) for each property. i couldnt use mapping anymore..

a help would be so kind of a

virtual String Ctrl::PropertyHook() const { return "Upp::Ctrl"; }

which i could use for querying maps..
then, derived controls, that dont extend property stuff would still be mapped easily..but this means extending the Ctrl API..what do you thing about it?

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also, String(typeid(CLASSNAME).name()) could be used..

then, a #define would do it to anounc

#define HASPROPERTY \
virtual String PropertyHook() const { return String(typeid(CLASSNAME).name()); }

Overengineering.

Mirek

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 02 Dec 2010 10:24:47 GMT
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sure, it's not easy to think simple
so what do you mean with dynamic_cast? how to use that here?

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by mirek on Thu, 02 Dec 2010 12:33:24 GMT

kohait00 wrote on Thu, 02 December 2010 05:24sure, it's not easy to think simple
so what do you mean with dynamic_cast? how to use that here?

```
CTRL_PROPERTIES(EditInt)
   PROPERTY(int, Min)
   PROPERTY_SET(bool, "NotNull", NotNull)
   PROPERTY_GET(bool, "NotNull", IsNotNull)
END_CTRL_PROPERTIES

static void GetSet_uniquebyline(Ctrl& c, Value& v, const String& prop, bool set)
{
  EditInt *c = dynamic_cast<EditInt>(&x);
  if(!c) return;
  if(prop == "Min" && set)
    c->Min(v);
  if(prop == "Min" && !set)
    v = c->GetMin();
  ....
}

INITBLOCK { RegisterCtrlGetSet(GetSet_uniquebyline); }
```

(Will take some effort to really squeeze to macros, but should be possible to do so).

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 02 Dec 2010 12:39:13 GMT

thanks, thats a hint...i'll think about it

EDIT: the property definition is not as much of a problem as to organize the 'jump in to search the property of an arbitrary ctrl'

how would you do the property handling so that the entrance point is not relaying on the type information..?
i mean the following:

```
//needs type information to go forward
//and access the corresponding properties table
template<class C>
void SetProp(C& c, const String& name, const Value& v);
```

////

//typeless, will search for type table of properties and
//there for the convenient property
void SetProp(Ctrl& c, const String& name, const Value& v);

this is basicly the question..

also, it may have get only properties, and set only properties

but i see your point to simplify it and handle everything in one function, to register only one function...

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 02 Dec 2010 22:50:38 GMT
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i finally came up with sth like this, what do you think about it?

//for Ctrl

CTRL_PROPERTIES(Ctrl)
PROPERTY(Ctrl, "data", PropSetData, PropGetData)
PROPERTY(Ctrl, "enable", PropEnable, PropIsEnabled)
PROPERTY(Ctrl, "show", PropShow, PropIsVisible)
PROPERTY(Ctrl, "editable", PropEditable, PropIsEditable)
PROPERTY(Ctrl, "logpos", PropSetLogPos, PropGetLogPos)
PROPERTY(Ctrl, "focus", PropFocus, PropHasFocus)
PROPERTY(Ctrl, "modify", PropModify, PropIsModified)
PROPERTY(Ctrl, "tip", PropSetTip, PropGetTip)
PROPERTY(Ctrl, "wantfocus", PropWantFocus, PropIsWantFocus)
PROPERTY(Ctrl, "initFocus", PropInitFocus, PropIsInitFocus)
PROPERTY(Ctrl, "backpaint", PropBackPaint, PropIsBackPaint)
PROPERTY(Ctrl, "transparent", PropTransparent, PropIsTransparent)
PROPERTY_SET(Ctrl, "refresh", PropRefresh)
END_CTRL_PROPERTIES(Ctrl, RecurseDone)

//for EditInt

DEC_CTRL_PROPERTIES(Ctrl)

CTRL_PROPERTIES(EditInt)
PROPERTY(EditInt, "min", PropSetMin, PropGetMin)

```
PROPERTY(EditInt, "max", PropSetMax, PropGetMax)
END_CTRL_PROPERTIES(EditInt, Ctrl)
```

this already works and is a more slim solution as before. take a look in header.

note how one can specify properties even separated (see Ctrl definition)..

a good option is, that properties could be reset to sth different (overridden), by specifying again:

PROPERTY(Ctrl, "data", MyPropSetData, MyPropGetData)

i think this is simple enough..what do you think?

File Attachments

1) CtrlPropTest.rar, downloaded 469 times

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Fri, 03 Dec 2010 08:31:30 GMT
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BTW: Edit Controls inconsistancy
EditIntNotNullSpin not present
and
EditIntSpin not in same manner as EditDoubleSpin

add:
EditCtrl.h:326

```
class EditIntNotNullSpin : public EditIntSpin
{
public:
 EditIntNotNullSpin(int inc = 1) : EditIntSpin(inc) { NotNull(); }
 EditIntNotNullSpin(int min, int max, int inc = 1) : EditIntSpin(min, max, inc) { NotNull(); }
};
```

change to:
EditCtrl.h:321

```
 EditIntSpin(int inc = 1);
 EditIntSpin(int min, int max, int inc = 1);
```

EditField.cpp:1052

```
void EditIntSpin::Init()
{
 sb.inc.WhenAction = sb.inc.WhenRepeat = callback(this, &EditIntSpin::Inc);
 sb.dec.WhenAction = sb.dec.WhenRepeat = callback(this, &EditIntSpin::Dec);
 AddFrame(sb);
}

EditIntSpin::EditIntSpin(int inc) : inc(inc) { Init(); }
EditIntSpin::EditIntSpin(int min, int max, int inc) : EditInt(min, max), inc(inc) { Init(); }
```

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by mirek on Thu, 09 Dec 2010 05:59:08 GMT
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Still could be better IMO. Too much code to be written. What about something like:

PROPERTY(EditInt, "min", IsNumber(param), MinMax(param, o.GetMax()), GetMin())

also

REGISTERPROPS(EditInt);

is not neededed, you can squeeze that to CTRL_PROPERTIES

And with a little effort, you can move base class parameter to CTRL_PROPERTIES too and make END_CTRL_PROPERTIES parameter-less.

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 09 Dec 2010 06:03:45 GMT
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thanks, i'll try
EDIT: question remains: am i using the dynamic_cast in the way you thought it?

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by mirek on Thu, 09 Dec 2010 07:15:21 GMT
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kohait00 wrote on Thu, 09 December 2010 01:03thanks, i'll try
EDIT: question remains: am i using the dynamic_cast in the way you thought it?

Yes.

I would perhaps rather use simple ifs to test for property name instead of map of callbacks.

BTW, after more thinking, maybe:

PROPERTY(EditInt, "min", if(IsNumber(param)) MinMax(param, o.GetMax()), GetMin())

Mirek

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Thu, 09 Dec 2010 07:36:30 GMT
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i'd prefer if's as well, if one could override them externally..
but it is questionable, if it is usefull to derive/override properties. if yes, than callbacks are the only option so far.
so a still stayed with the explicit naming of the handlers, so full control in handlers remains.
everything else is done as you said, this is the result so far.

```
CTRL_PROPERTIES(Ctrl, RecurseDone)
PROPERTY("data", PropSetData, PropGetData)
PROPERTY("enable", PropEnable, PropIsEnabled)
PROPERTY("show", PropShow, PropIsVisible)
PROPERTY("editable", PropEditable, PropIsEditable)
PROPERTY("logpos", PropSetLogPos, PropGetLogPos)
PROPERTY("focus", PropFocus, PropHasFocus)
PROPERTY("modify", PropModify, PropIsModified)
PROPERTY("tip", PropSetTip, PropGetTip)
PROPERTY("wantfocus", PropWantFocus, PropIsWantFocus)
PROPERTY("initFocus", PropInitFocus, PropIsInitFocus)
PROPERTY("backpaint", PropBackPaint, PropIsBackPaint)
PROPERTY("transparent", PropTransparent, PropIsTransparent)
PROPERTY_SET("refresh", PropRefresh)
END_CTRL_PROPERTIES
```

..

```
CTRL_PROPERTIES(EditInt, Ctrl)
PROPERTY("min", PropSetMin, PropGetMin)
PROPERTY("max", PropSetMax, PropGetMax)
END_CTRL_PROPERTIES
```

if c++ had delegates like in c# that'd be the best.

BTW: how to install a MouseHook (which is no __thiscall) to operate on a application local TopWindow? i want to start an edit properties window on arbitrary controls upon a mouse+key combination..

EDIT: solution found, just tell me if there are pitfalls i dont see:

```
bool MyMouseHook(Ctrl *ctrl, bool inframe, int event, Point p,
                 int zdelta, dword keyflags)
{
 if(event & (Ctrl::MOUSEMOVE | Ctrl::MOUSEENTER | Ctrl::MOUSELEAVE |
Ctrl::CURSORIMAGE)) return false;
 if((keyflags & K_MOUSERIGHT))
 if((keyflags & K_SHIFT_CTRL))
 {
  CallbackArgTarget<int> m;
  MenuBar menu;
  menu.Add("List Properties",m[0]);
  menu.Add("Edit Properties",m[1]);
  menu.Execute();
  if(IsNull(m)) return true;
  switch(m)
  {
   case 0:
    { PropList& p = Single<PropList>(); p.PopUp(Ctrl::GetActiveWindow(), *ctrl); }
    break;
   case 1:
    { PropEdit& p = Single<PropEdit>(); p.PopUp(Ctrl::GetActiveWindow(), *ctrl); }
    break;
  }
  return true;
 }
 return false;
}
```

File Attachments

1) CtrlPropTest2.rar, downloaded 493 times

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Fri, 10 Dec 2010 07:55:41 GMT
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i've got a prolem with the mousehook..

it does not work with, i.e., StaticText, which has IgnoreMouse().

how could i grab arbitrary controls for editing? with the mouse hook?

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by dolik.rce on Fri, 10 Dec 2010 09:24:13 GMT
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kohait00 wrote on Fri, 10 December 2010 08:55i've got a prolem with the mousehook..

it does not work with, i.e., StaticText, which has IgnoreMouse().
how could i grab arbitrary controls for editing? with the mouse hook?
One workaround could be the method that Sc0rch used in his FormEditor (have a look at it in the bazaar). It uses transparent Ctrl on top of all other Ctrls, grabs the mouse position and then finds the Ctrl that lies at the given location IIRC. It introduces some additional processing, but works for any Ctrl.

Honza

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Fri, 10 Dec 2010 09:32:42 GMT
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great idea thanks a lot
i used transparent clickable controls elsewhere, but never used it as a entire coverage to a layout..cool.

```
int FormView::ObjectFromPt(Point p)
{
 if (!IsLayout()) return -1;

 for (int i = GetObjectCount() - 1; i >= 0; --i)
  if (Zoom(Offseted( (*GetObjects())[i].GetRect() )).Contains(p))
   return i;
 return -1;
}
```

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by kohait00 on Wed, 26 Jan 2011 12:55:44 GMT
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please have a look at bazaar/CtrlProp:

plans are to have a 'live workspace' where i can switch to manipulating the gui elements, store the

layout, load it from elsewhere and ofcorse edit the properties of the listed controls.

the current solution is not very satisfying though.

i think/imagine to release the potential for Value and have each control have a set (list or array) of Value's as exposed interface of its properties. much like properties in C#. that'd be great. this would make really dynamic gui cases possible.

plans are, to have kind of a 'dictionary' of such properties, applicationwide, to be able to setup arithmetical functions based on values from the dictionary, and to feed other properties.

this would introduce a new Void() derive with some callbacks to feed the destination controls. it's much like a scripting environment, with all the controls and variables accessible.

it would also make some reactional channels nesseccary..i.e. when having arithmetical functions calculating something depending on some properties and resulting in setting another property.

ideas? on how to do that?

attached is a mini demo..
LiveWorkTest, needs current svn rev 3101..

ps: i am thinking of things like
http://www.jazzmutant.com/lemur_overview.php
http://www.jazzmutant.com/download_lemur_soft.php
check out the JazzEditor, where one can setup values and have the OSC messages be generated based on other values/properties in the system..

File Attachments

1) LiveWork.rar, downloaded 494 times

Subject: properties like in C#
Posted by kohait00 on Tue, 01 Feb 2011 13:45:29 GMT
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see
http://www.codeproject.com/KB/cpp/cppproperties.aspx

which shows an implementation idea..
thanks to Callback we already can have stuff like that:

```
template<class T>
struct Property
{
 typedef Callback1<const T&> S;
 typedef Callback1<T&> G;

 Property(const S& s, const G& g)
  : set(s), get(g) {}

 const T& Set(const T& a) { ASSERT(set); set(a); return a; }
 T Get() const { ASSERT(get); T t; get(t); return t; }

 inline T operator= (const T& a) { return Set(a); }
 inline operator T() const { return Get(); }

public:
 const S set;
 const G get;
};

typedef Property<Value> PropertyValue;

...

//.h
class PropertyTest : public WithPropertyTestLayout<TopWindow> {
public:
 typedef PropertyTest CLASSNAME;
 PropertyTest();

 void GetD(Value& a) { a = "abc"; }
 void SetD(const Value& a) { RLOG(a); }

 PropertyValue vp;
};

//.cpp
PropertyTest::PropertyTest()

#pragma warning(push)
#pragma warning(disable:4355)
 : vp( THISBACK(SetD), THISBACK(GetD) )
#pragma warning(pop)

{
 CtrlLayout(*this, "Window title");

 //setting, will call SetD
```

```
 vp = 123;

 //getting, will call GetD
 Value v = vp;
 RLOG(v);
}

GUI_APP_MAIN
{
 PropertyTest().Run();
}
```

now what's the benefit of it? imagine the Ctrls beeing able to be parametrized like

```
EditInt ei;

ei.min = 100;
ei.max = 200;
ei.data = 150;
ei.show = true;
ei.rect = Rect(0,0, 100,200);
...
```

while i know it's not much better than current design rule of daisychaining methods, it makes code even bit more clean

---

Subject: Re: properties like in C#
Posted by dolik.rce on Tue, 01 Feb 2011 15:13:31 GMT
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kohait00 wrote on Tue, 01 February 2011 14:45now what's the benefit of it? imagine the Ctrls beeing able to be parametrized like

```
EditInt ei;

ei.min = 100;
ei.max = 200;
ei.data = 150;
ei.show = true;
ei.rect = Rect(0,0, 100,200);
...
```

while i know it's not much better than current design rule of daisychaining methods, it makes code even bit more clean

Hi kohait

Actually it is not better in any way... The underlaying code is more complex and the efficiency of chaining is better (both performance-wise and typing-wise). And the readability is IMHO exactly the same:
EditInt ei;

```
ei.SetMin(100)
  .SetMax(200)
  .SetData(150)
  .Show()
  .SetRect(Rect(0,0, 100,200));
```

Those are the basic reasons why all the previous proposals to add properties were vetted... You might find some more details by searching the forum.

Best regards,
Honza

PS: Plus having both properties and SetX()/GetX() functions leads to a unnecessary duplicity.

Subject: Re: properties like in C#
Posted by kohait00 on Tue, 01 Feb 2011 17:51:37 GMT
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i'm aware of the lesser usefullness

my problem is, actually, i'm still in search of exposing a uniform way of changing a set properties through a uniform interface.

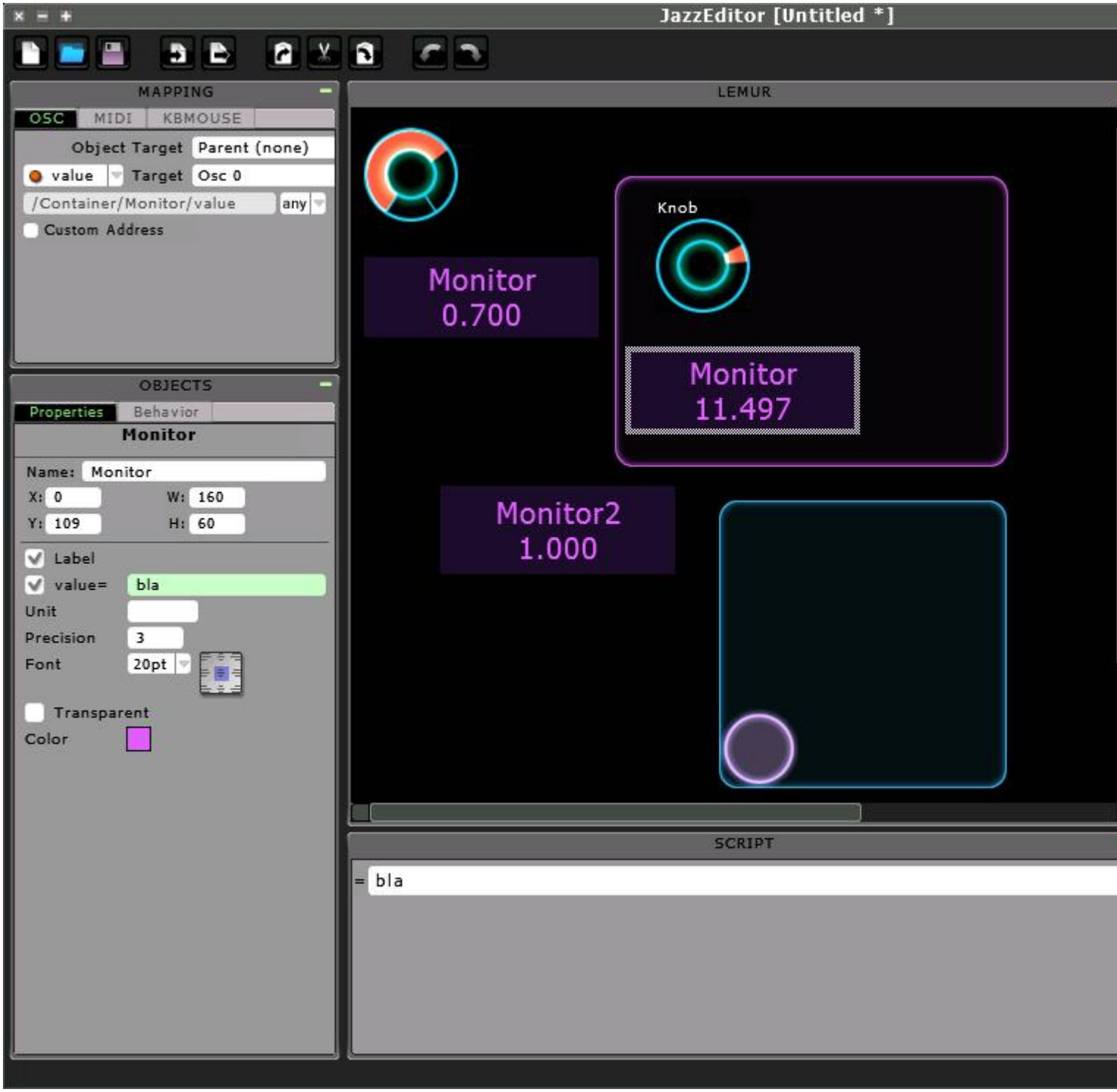
basicly need it for a live workspace, where controls are placed, resized, edited etc..

any other idea?

sth like the following is planned...

File Attachments

1) lemur.JPG, downloaded 1829 times



Subject: Re: properties like in C#
Posted by koldo on Tue, 01 Feb 2011 21:34:58 GMT
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Cute!

Subject: Re: properties like in C#
Posted by kohait00 on Wed, 02 Feb 2011 08:30:18 GMT
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dont be too excited.. this is *not* my project but i am planning to have sth like that

Subject: Re: GetProperty() / SetProperty() for Ctrl
Posted by luluxiu on Fri, 01 Jul 2011 02:18:38 GMT
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It uses the top of all other Ctrls transparent Ctrl key, to seize the position of the mouse, and then find the Ctrl, IIRC in a given location where the. It introduces some additional processing, but for any Ctrl key works.

File Attachments

1) cool.gif, downloaded 872 times

