
Subject: first try on a own (simple) widget...

Posted by [Wolfgang](#) on Wed, 30 Nov 2011 15:04:40 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi there,

I'm trying myself on a own widget, a input field just for time (HH:MM)... found some piece of code in the forum but nothing fits exactly my needs.

Please note that's really my first try for such a thing..

```
class TimeInput : public EditString
{
public:
    Value Format(const Value& q) const
    {
        //TimeInput::setTime(15,7);

        String mq = q.ToString();
        String rt = "";
        int sep = mq.Find(':');
        if (sep < 0)
        { /* no : */
            int x = StrToInt(mq);
            if (x < 0 || x > 23) return "00:00";
            if (mq.GetLength() == 1)
            {
                rt << "0" << mq << ":00";
                return rt;
            }
            rt << mq << ":00";
            return rt;
        }
        String x1 = mq.Mid(0,sep);
        String x2 = mq.Mid(sep);
        while ((sep = x1.Find(':')) != -1) x1.Remove(sep);
        while ((sep = x2.Find(':')) != -1) x2.Remove(sep);

        int hrs = StrToInt(x1);
        int min = StrToInt(x2);
        if (hrs < 0 || hrs > 23) x1 = "00";
        else if (x1.GetLength() == 1) x1.Insert(0,'0');

        if (min < 0 || min > 59)
        {
            rt << x1 << ":00";
            return rt;
        }
        if (x2.GetLength() == 1) x2.Insert(0,'0');
```

```

rt << x1 << ":" << x2;
return rt;
}
int Filter(int chr) const
{ /* only accept digits and ':' */
if(IsDigit(chr) || chr == ':') return chr;
return 0;
}
String increaseMin()
{
if (++min > 59)
{
min = 0;
if (++hour>23)
{
hour = 0;
return "00:00";
}
if (hour < 10)
{
String rt = 0;
rt << hour << ":00";
return rt;
}
String rt;
rt << hour << ":00";
return rt;
}
String rt;
if (hour < 10) rt << "0";
rt << hour << ":";
if (min < 10) rt << "0";
rt << min;
return rt;
}
private:
int min;
int hour;
void setTime(int m, int h) { min = m; hour = h; }
};
typedef TimeInput EditTimeHM;

```

If I uncomment the TimeInput::setTime(15,7); in the Format procedure, it fails to compile.

d:\ultimate++\myapps\countdown\Countdown.h(13) : error C2662: 'TimeInput::setTime' : cannot convert 'this' pointer from 'const TimeInput' to 'TimeInput'
&

Conversion loses qualifiers

please be patient, help and tipps always welcome!

This piece of code (with commented setTime part) compiles and works as I expect it to do..

best regards

Wolfgang
