
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 thats 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 = StrInt(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 = StrInt(x1);
int min = StrInt(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
