
Subject: Re: Lambda support in MenuBar
Posted by [Klugier](#) on Sat, 11 Jun 2016 09:23:43 GMT
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Hello Mirek - Now more serious,

I tried to integrated new lambda callback with ide New file menu - but there is a problem. Here is my new code:

```
void WorkspaceWork::NewMenu(Bar& bar)
{
    bar.Add("File", CtrlImg::File(), THISBACK2(NewPackageFile, "New file", ""));
    bar.Add("Separator", THISBACK(AddSeparator))
        .Help("Add text separator line");

    bar.Separator();
    for (int i = 0; i < categories.GetCount(); i++) {
        // Lambda in place - as argument
        bar.Add(categories.GetKey(i), [&, i](Bar& subBar) {
            for (FileType& fileType : categories[i]) {
                String name = fileType.GetName();
                String extension = fileType.GetExtension();

                if (fileType.IsSeparator())
                    subBar.Separator();
                else
                    subBar.Add(name, fileType.GetImage(), THISBACK2(NewPackageFile, "New " + name,
extension));
            }
        });
    }
}
```

And i have got following compilation issue:

```
/home/klugier/upp/uppsrc/Core/Callback.h: In instantiation of 'Res Upp::Function<Res(ArgTypes
...)>::Wrapper<F>::Execute(ArgTypes ...) [with F =
WorkspaceWork::NewMenu(Upp::Bar&)::<lambda(Upp::Bar&)>; Res = void; ArgTypes = {}]
':
/home/klugier/upp/uppsrc/ide/UppWspc.cpp:1238:1: required from here
/home/klugier/upp/uppsrc/Core/Callback.h:15:60: error: no match for call to
'(WorkspaceWork::NewMenu(Upp::Bar&)::<lambda(Upp::Bar&)>) ()'
    virtual Res Execute(ArgTypes... args) { return fn(args...); }
            ^
/home/klugier/upp/uppsrc/ide/UppWspc.cpp:931:51: note: candidate:
WorkspaceWork::NewMenu(Upp::Bar&)::<lambda(Upp::Bar&)>
    bar.Add(categories.GetKey(i), [&, i](Bar& subBar) {
```

^

/home/klugier/upp/uppsrc/ide/UppWspc.cpp:931:51: note: candidate expects 1 argument, 0 provided

In file included from /home/klugier/upp/uppsrc/Core/Core.h:293:0,

from /home/klugier/upp/uppsrc/Esc/Esc.h:4,

from /home/klugier/upp/uppsrc/ide/Core/Core.h:4,

from /home/klugier/upp/uppsrc/ide/Common/Common.h:4,

from /home/klugier/upp/uppsrc/ide/ide.h:4,

from /home/klugier/upp/uppsrc/ide/UppWspc.cpp:1:

/home/klugier/upp/uppsrc/Core/Callback.h:15:60: error: return-statement with a value, in function returning 'void' [-fpermissive]

virtual Res Execute(ArgTypes... args) { return fn(args...); }

Is that problem here that bar lambda is created in THISBACK method?

Sincerely,
Klugier