Subject: Re: Focus problem

Posted by Lance on Sun, 19 Dec 2021 13:22:44 GMT

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Hi Silvan:

The way I define WhenSuspiciousKey is a typical way to define an Event. First, the Ctrl or its direvative need to provide a chance for the event in a (relevant) overrided virtual function. In my case, I overrided

```
bool Key(...)
```

In my MainWindow::Key(...)

I allowed WhenSuspiciousKey be called at certain time. What is WhenSuspiciousKey? I define it as a member variable of MainWindow of type Event<>

By add this member variable to MainWindow, the user of MainWindow can assign a callback to an instance(object) of this type by

```
MainWindow m; m<<[]{...};
```

There is no magic here. C have simlar (but much limited ) mechanism. When Suspicious Key is like a function pointer to which you can assign a callback. In order for this callback to actually be called, some where, you need to check and call it(in our case, it's in the Main Window::Key(...) virtual function).

Now, Key is a virtual function, you cannot assign a callback to it. On the other hand, an object of MainWindow, m, has a public member variable name WhenSuspciciousKey, which is of type Event<>. You can access this member variable. One way is by something like m.WhenSuspiciousKey<<[]{};

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PS: On a second thought, use C function pointer as example:

```
void (*WhenWhat)(int);
void func1(int p)
{
  if(WhenWhat)
     WhenWhat(p);
}
void callback(int p)
{
}
```

```
WhenWhat=callback; // this is good // just like // WhenSuspiciousKey<<[]{}; // is fine func1=callback; // this won't compile // just like // Key<<[]{}; // won't compile.
```