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Subject: WebWord - Turtle reference example issue  
Posted by [Tom1](#) on Wed, 18 Apr 2018 08:05:10 GMT  
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Hi,

Was not sure where to put this, so I ended up here at the coffee corner... (Feel free to move this wherever it belongs.)

Anyway, I do not seem to be able to make WebWord reference example work. It compiles and links OK. When connecting to it at address 127.0.0.1:8088 from Firefox, I just get a 'Connection closed.' -dialog with an OK button. The terminal shows:

```
Accepted, header read  
Sending HTML
```

I tried this on LinuxMint using both GCC and CLANG compilers. No difference there.

I think this used to work some years ago.

Best regards,

Tom

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Subject: Re: WebWord - Turtle reference example issue  
Posted by [Oblivion](#) on Wed, 18 Apr 2018 12:38:03 GMT  
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I can confirm this on Linux.  
It is not working.

At first glance I can see in Turtle/Server.cpp, ln: 142-3 that for some reason no event is signalled and it waits forever:

```
Quote:  
while(!IsWaitingEvent())  
    GuiSleep(10);
```

Also, `WebSocket::WebAccep()`: sets the opcode to `READING_FRAME_HEADER`, but does nothing. (Shouldn't it process the command? Is this intended? I see that this method is kep for backward compatibility)

Best regards,  
Oblivion

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Subject: Re: WebWord - Turtle reference example issue

Posted by [Tom1](#) on Wed, 18 Apr 2018 12:54:09 GMT

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Hi,

Thanks, Oblivion. I found out that it is not working on Windows either.

The reason I'm currently tinkering with TURTLE is that I'm looking into a possibility to create a control application that runs on an embedded Linux (or Windows) computer offering its GUI over wireless network to phones and tablets using TURTLE.

Best regards,

Tom

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Subject: Re: WebWord - Turtle reference example issue

Posted by [mirek](#) on Tue, 08 May 2018 12:16:09 GMT

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Hopefully fixed.

That said, Turtle is experimental feature and I am not aware any real world application. If you find a real use for it, please let me know, there are definitely parts I would like to improve.

Mirek

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Subject: Re: WebWord - Turtle reference example issue

Posted by [Oblivion](#) on Tue, 08 May 2018 13:01:53 GMT

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Thanks,

It's now working fine. And as far as I can see Turtle is pretty impressive.

However I am more interested in this VirtualGui thing.

What is it really?

Will it allow me to create a remote desktop connection between U++ apps, and possibly with other apps, e.g. via SSH? (Without relying on X server, or HTML5 canvas capable web browser)

That would be awesome.

Best regards,

Oblivion

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Subject: Re: WebWord - Turtle reference example issue

Posted by [mirek](#) on Tue, 08 May 2018 13:49:58 GMT

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Oblivion wrote on Tue, 08 May 2018 15:01 Thanks,  
It's now working fine. And as far as I can see Turtle is pretty impressive.  
However I am more interested in this VirtualGui thing.  
What is it really?

Means to implement minimal GUI with minimal effort. All you have to implement is about 10 methods of VirtualGui interface (plus you need some Draw, at minimum all you need is to provide DrawImage and DrawRect, with the help of SDraw).

It is not 'fully integrated' GUI with the host as it contains sort of "window manager" too.

I am actually planning to convert Turtle to VirtualGui.

Quote:

Will it allow me to create a remote desktop connection between U++ apps, and possibly with other apps, e.g. via SSH? (Without relying on X server, or HTML5 canvas capable web browser)  
That would be awesome.

Yes, the only downside is that it is not possible to have it running alongside some other GUI. Only single GUI is possible for the app.

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Subject: Re: WebWord - Turtle reference example issue

Posted by [Tom1](#) on Tue, 08 May 2018 14:25:05 GMT

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Hi Mirek,

Thanks! I will test soon.

BTW: Would it alternatively be difficult to create a turtle application without the window frame, i.e. in a way that the full page area in the browser would be the application window's client area?  
When working with a single window application (potentially with menus and dialogs on top) the extra window frame just wastes space on a small smart phone display.

Best regards,

Tom

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Subject: Re: WebWord - Turtle reference example issue

Posted by [mirek](#) on Tue, 08 May 2018 14:32:34 GMT

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Tom1 wrote on Tue, 08 May 2018 16:25: Hi Mirek,

Thanks! I will test soon.

BTW: Would it alternatively be difficult to create a turtle application without the window frame, i.e. in a way that the full page area in the browser would be the application window's client area? When working with a single window application (potentially with menus and dialogs on top) the extra window frame just wastes space on a small smart phone display.

Best regards,

Tom

Actually, that how it is meant to work....

I guess TopMost should work. If it does not, it will after I refactor Turtle. That said, I am not going to do that without somebody actually using Turtle

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Subject: Re: WebWord - Turtle reference example issue  
Posted by [wqcmaster](#) on Wed, 09 May 2018 07:17:14 GMT  
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We would have the request for a variant of WebWord Turtle VirtualGUI. Our current AIBWord (UWord variant) is part of our application. For our application is currently planning the WEB service connection (XMLRPC is more diligence, RESTFull is still, SOAP is labor intensive) The implementation as an HTML client will be only a follow-up request thereafter. And so the WEBWord Turtle variant becomes interesting. In customer discussions, these requirements were already considered as an interesting approach.

But for our AIBWord, another requirement is currently in the works or will be resumed soon: introducing footers similar to the headers in spreadsheets. For us, the calculation in RichTable :: Realize (...) is not so easy to understand. Currently, the footer of the table is drawn at the wrong place and wrong extent. Therefore, this feature has been postponed for another month (also due to other requirements in the application).

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Subject: Re: WebWord - Turtle reference example issue  
Posted by [Tom1](#) on Wed, 09 May 2018 07:53:39 GMT  
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Hi Mirek,

Thanks, now it works from Firefox on localhost. (Tested on Windows 10.) Adding TopMost() did not change anything.

However, if I try to connect from an another computer running Firefox over the LAN (or from my Android phone over WLAN) I still receive "Connection closed." on the browser and the running Webword console shows again:

```
Accepted, header read
Sending HTML
Accepted, header read
Sending HTML
```

Should I change Webword some way to support external access... ?

I'm surely interested on this because a working Turtle GUI would open new possibilities. I cannot confirm production status for it yet. In any case I think that small embedded (blackbox) computers running all kinds of control applications based on Turtle GUI would give a very productive approach to accessing their configuration settings. Just a smart phone or a tablet with browser. No need for any special Android or iOS apps. This way the control logic and the GUI can both be programmed in the familiar U++ environment which is a great benefit.

Best regards,

Tom

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Subject: Re: WebWord - Turtle reference example issue

Posted by [Novo](#) on Thu, 14 Jun 2018 18:32:52 GMT

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I checked WebWord on both Linux (Ubuntu 18.04) and Windows (8.1) with the latest source code and got the same problem on both platforms: it works in Debug configuration, and it doesn't work in Release, although I'm getting "Accepted, header read Sending HTML" messages. It sometimes displays a "Connection Closed" dialog, which quickly disappears.

Am I doing something wrong?

Another observation. WebWord spends most of its time inside of Ctrl::StartSession() endlessly calling socket.Accept(server). It looks like server doesn't have any timeout associated with it.

Thanks in advance.