The Gwx Story

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Inforum World Conference XXV
Riga Latvia
The Gw的故事

The Biography of a Regression and Model-building Program
Built in C++ with Free, Open-Source, Cross-Platform Tools

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A Partial and Preliminary Version as of May 2017
Why Gwx?

- *Future*: Borland Builder 6 is old, new versions are expensive.
- *Freedom*: Gwx uses GNU GCC compiler, Codeblocks IDE, and wxWidgets framework of GUI design tools.
- *Portability*: We are building under Ubuntu Linux, but it will work under Mac and Windows as well.
Building Blocks

- **GNU Tools**: Open source, industry-standard GCC and GDB debugger, can be installed under Cygwin or MinGW.

- **CodeBlocks**: Open source graphical IDE with add-ons for wxSmith and other tools.

- **wxWidgets**: Full set of GUI elements, with wxSmith this is much like the Borland Builder IDE.
Ubuntu Linux

- One of the most popular and unique Linux distributions.
- Can easily be installed to dual-boot with Windows 7 or 10. Can also be run as a virtual machine, in VirtualBox.

- [https://www.virtualbox.org/wiki/Downloads](https://www.virtualbox.org/wiki/Downloads)
CodeBlocks

- Current version is 16.01. We have been using it since version 10
- http://www.codeblocks.org/downloads/26
- Under Ubuntu:
  - sudo apt-get install codeblocks
- Under Windows:
  - codeblocks-16.01mingw-setup.exe
wxWidgets

- *Current most stable version is 2.8.*

- **Under Ubuntu:**
  - Install several wxWidgets headers and libraries.

- **Under Windows:**
  - wxWidgets library needs to be compiled, but this situation should improve soon.
Tutorials

- Clopper has taken over the development and maintenance of the wxSmith tutorial.
- There are currently 10 tutorials, that take the new programmer step by step through understanding and developing with CodeBlocks and wxWidgets.
- *The Gwx Story* is also set up as a series of tutorials, and is described as ‘A Biography of a Program’.
- Much of the material there is also helpful for understanding the underlying structure of G7.
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Screen Shot of Gwx
History and Future Development

**HISTORY**

- *Florence* – Initial development and proof of concept.
- *Baikal* – up to 12 tutorials, including “f”, “r” commands, and graphs.
- *Osnabruck* – Many new functions, vam file commands.
- *Latvia* – More vam commands, including “show” command with grid.

**COMING UP NEXT!**

- Finish Vam capabilities
- Cross-Platform Interdyme (Fixer, Macfixer, IdBuild, Banker and Dyme model.) in Console model within Codeblocks.
- Windows version of Gwx.
Want to Learn More?

Install Codeblocks/wxWidgets on your Linux and/or Windows computer.

We will make the current stable version available to compile and use.

We will continue to experiment with GCC under Linux, and with Cygwin and Mingw under Windows, and make programs available.

The latest version of *The Gwx Story (2017)* is available in PDF.