



# **ROOT GUI**

Ilka Antcheva



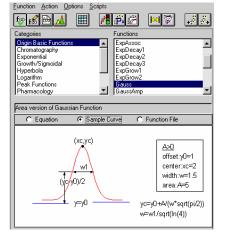
# **Main Goals**

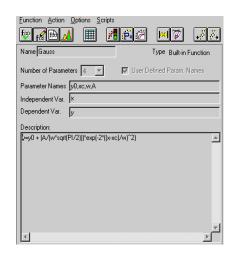


 Designing interactive ROOT application to support people in their everyday and working lives, i.e. to cover all tasks that real users

can perform with ROOT.

- Object Editors
- Fit Panel
- Picks Finder
- Tree Viewer
- TMVA, RooFit
- GUI Builder
- GUI Event Recorder





- Integrate all system components and keep them up-to-date:
  - Software, documentation, help functions, training tools
- Screen-Cast tutorials on web
  - Introductory demos & Advanced tutorials





# **Main Goals**



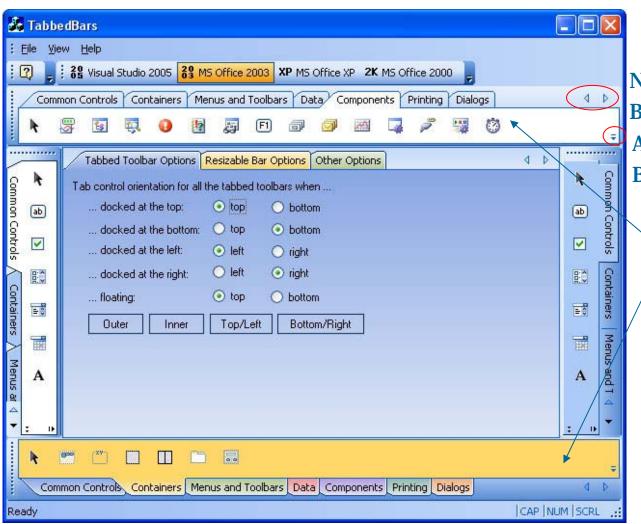
- Allow users to recover from mistakes undo/redo features.
- Different icon modes for any application (small, normal, large; image, text, image & text).
- Application Wizard allows generation of an application skeleton within minutes.
- Multilingual applications all textual elements are separated in resources and allow translation with no changes into the source code. A layout editor allows editing application windows and dialogs during translation.
- GUI skinning changing the current theme on the fly with 'one line' of code.
- Up-to-date GUI widgets...





# **Toolbars & Tabs**





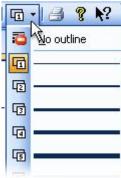
Navigation
Buttons
Add/Remove
Button



**Undo Button** 

**Tabbed toolbars** 

## **Split Button**

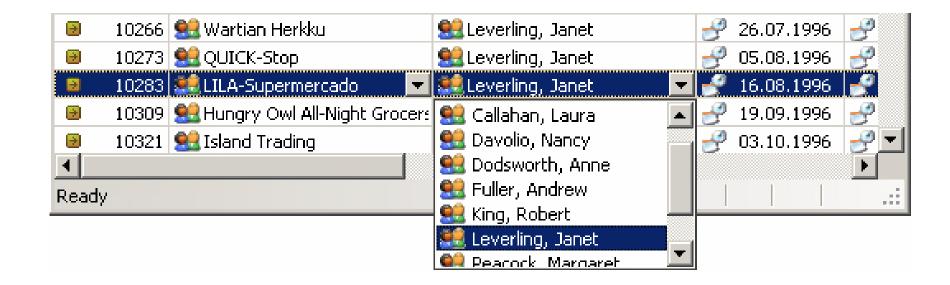




# Table/Grid Widget



6	12 - 8 oz jars	25	120	0 🕏	25	$\checkmark$	
7.▶	12 - 1 lb pkgs.	30	15	0 🕏	10	$\overline{\mathbf{A}}$	4
8	··· 12 - 12 oz jar ▼ ···	40 🚖	6 🕏	0 🖶	o <del>‡</del>	$\overline{\mathbf{v}}$	
9	18 - 500 g pkgs.	97	29	0 🕏	0		
10	12 - 200 ml jars	31	31	0 🕏	0	$\overline{\mathbf{A}}$	

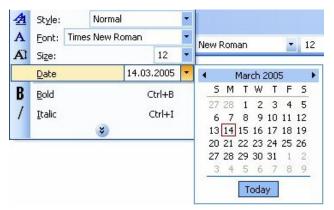


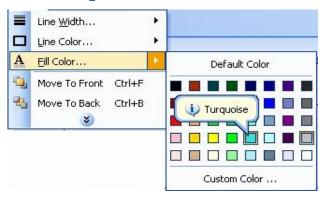


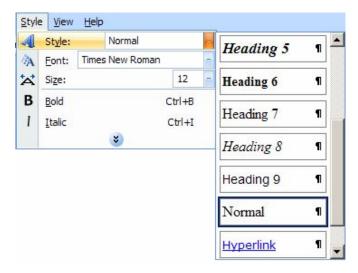
## **New Menu Features**



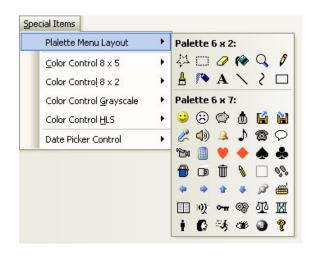
### **Complex Menu Entries**



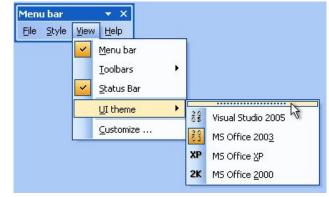




#### Palette Menu



#### **Tear-off Menu**



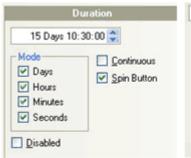




# **New Widgets**

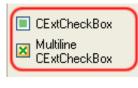


### **Date/Time Widgets**





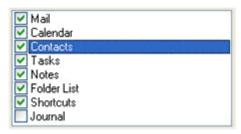
#### **Buttons**







## Check-List box



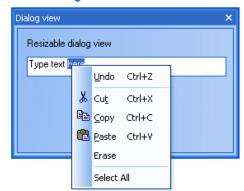
### **Hyperlink Label**



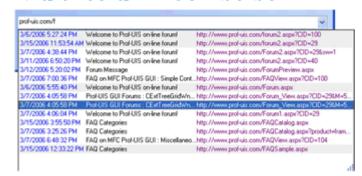
#### **Zoom Slider**



### **On-fly Edit Controls**



#### Multi-column Combo box



#### **Enhanced Use of Status Bar**



#### Shutter

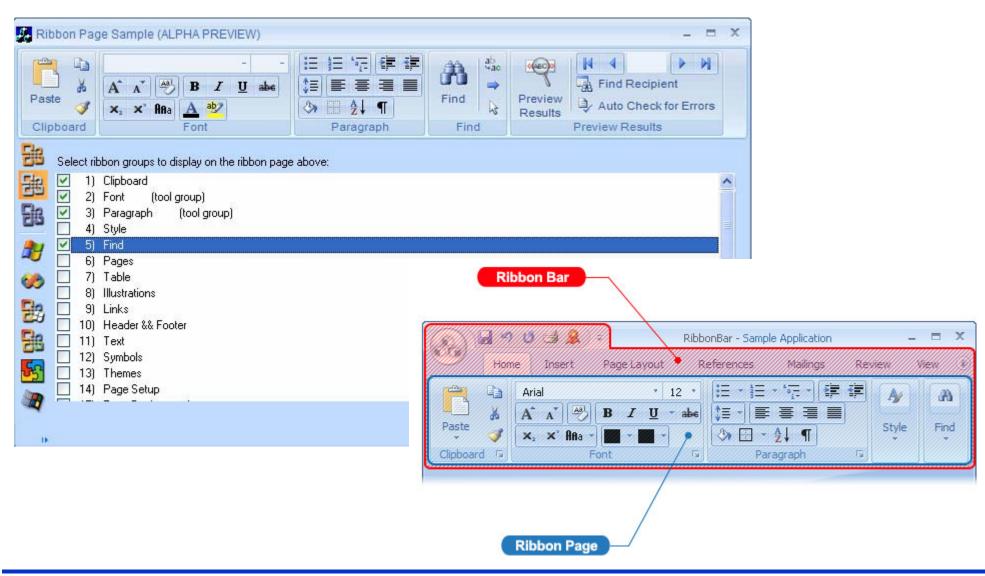




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# Ribbon Bar & Pages





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## **Future**



- Parallel and Web applications –gain performance as a result of:
  - Algorithm
  - Implementation
  - Compiler
  - Operating system
  - Underlying processor architecture
  - Interconnect technologies.

