



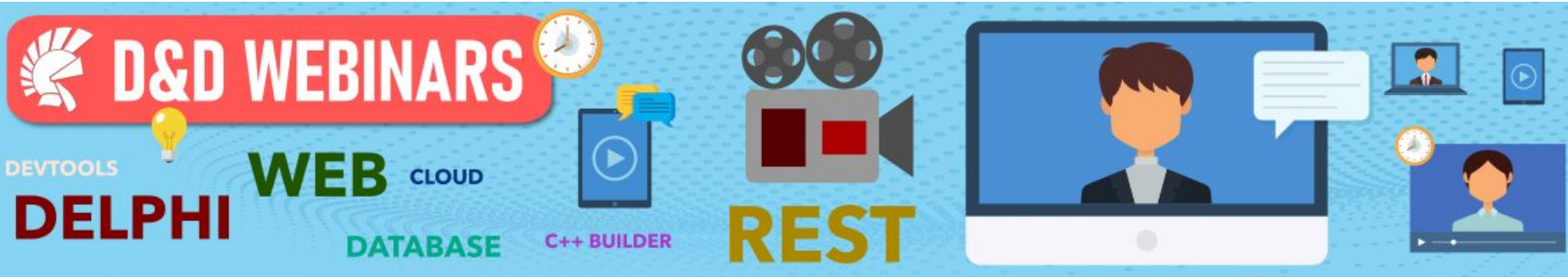
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# MMX Code Explorer

**IL WEBINAR PARTIRA' ALLE ORE 15:00**



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# I WEBINAR DI DELPHI & DINTORNI

# NEXT WEBINARS

- Async/await per uscire dall'inferno delle callback
  - ◆ Luca Minuti - 29 Aprile ore 15:00
- Gestione componenti nell'IDE
  - ◆ Paolo Rossi - 5 Maggio ore 15:00
- Padroneggiare i principi SOLID
  - ◆ Marco Breveglieri - 8 Maggio ore 15:00
- Diventa un mago del Testing
  - ◆ Marco Breveglieri - 15 Maggio ore 15:00
- Continuous Integration con Delphi & Jenkins
  - ◆ Marco Mottadelli - 22 Maggio ore 15:00

# HAI UN ARGOMENTO INTERESSANTE?



Contattami a questo indirizzo

[paolo.rossi@wintech-italia.com](mailto:paolo.rossi@wintech-italia.com)



**PAOLO** ROSSI  
WINTech ITALIA **CTO**

**SENCHA & EMB**



**BLOG**



**[blog.paolorossi.net](http://blog.paolorossi.net)**

**GITHUB** PROJECTS



**[github.com/paolo-rossi](https://github.com/paolo-rossi)**





# GITHUB PROJECTS



## Delphi JWT

JSON Web Token Library for REST



## Linux Daemon

Library to build real Linux daemons



## Delphi Neon

JSON Serialization Library for REST



## OpenAPI-Delphi

OpenAPI 3.0 library for Delphi



## WiRL Project

JAX-RS Like REST Library for Delphi



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# MMX Code Explorer

## Delphi IDE Expert



# AGENDA

- Developer types
  - ◆ What type are you?
- Keyboard or mouse?
- The Delphi Editor
- Editor Experts: MMX

# DEVELOPER TYPES

- The “Paganini”
- The “Lazy”
- The “Undecided”
- The “Perfectionist”

What type are you?

# KEYBOARD OR MOUSE

- Mouse: beginner way
  - ◆ Menu and toolbars help
- Keyboard: fastest way
  - ◆ A lot of key combinations to remember

**The goal is (IMO)**

**Never touch the mouse while typing!**

# THE EDITOR

# THE DELPHI EDITOR

- Responsive editor
- Turbo Pascal legacy
- Block operations
- Please learn the shortcut keys!

[docwiki.embarcadero.com/RADStudio/Rio/en/Default\\_Keyboard\\_Shortcuts](https://docwiki.embarcadero.com/RADStudio/Rio/en/Default_Keyboard_Shortcuts)

# BASIC KEYS

- **F9, Ctrl-F9, Shift-F9** (Run, Compile, Build)
- **Ctrl-Shift-C** (Class completion)
- **Ctrl-Space, Ctrl-Shift-Space** (Code Completion/Params)
- **Ctrl-Backspace, Ctrl-Canc** (Delete word)
- **Ctrl-Y** (Delete current line)

# BASIC KEYS

- **Ctrl-Shift-Up, Ctrl-Shift-Down** (method intf <-> impl)
- **F12** (Switch Code <-> Design)
- **Ctrl-Shift-J** (Sync Edit)
- **Alt-Mouse** (Block selection)
- **Ctrl-W** (Expand selection) (10.3 Rio)

# REFACTORING

- Introduced with Galileo IDE
- From Borland Together
- Quite slow and not too many features
  - ◆ Improved since introduced
- I used to remove the package from Delphi!
  - ◆ Now I don't remove the Package, I simply don't use it



# DELPHI EXPERTS

# DELPHI EXPERTS

## → GExperts

- ◆ The oldest expert
- ◆ Some experts are still useful

## → CnPack

- ◆ Thousand of features
- ◆ Sometimes too much (please configure it)

## → MMX

- ◆ A must-have!
- ◆ Useful especially when you have classes

# DELPHI EXPERTS

→ The IDE is slow?

- ◆ I don't think that the expert is the (main) problem

→ How to disable an expert?

- ◆ Use the Regedit tool (or something better)
- ◆ Write a small utility
- ◆ Use GExperts "Expert Manager"

**MMX**

# MMX FEATURES

- Integrated with Delphi 10.0 - 10.3 Rio
- Instant, two-way navigation.
- Point-and-click, drag-and-drop programming.
- IntelliReplace propagates renames in code.
- Create and edit classes, members and procedures.
- Instantly copy, paste and on-the-fly convert classes, methods, properties etc. even between classes and modules

# MMX FEATURES

- Entity Insight to change attributes for (multiple) selected members.
- Rearrange and Sort code, maintaining region definitions.
- Improve Navigation with History, Method Favorites and Member Search Bar
- Live Documentation support

# MMX FEATURES

- Live Metrics
- Source Indexer



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**THANK YOU**