

# EKON 21

## IDE Productivity Tips

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# The Editor

- Code Insight et al
- Help Insight
- Error Insight
- Class completion
- Code browsing
- Module navigation
- Method hopping
- Code folding
- Refactoring
- TwoDesk Castalia
- Editor bookmarks
- Keyboard macros
- Case switching
- Buffer list
- Block indent / unindent
- Block operations
- Various selection / deletion operations
- Incremental search
- Drag & drop

Form designers

Object Inspector

Miscellaneous

# The Editor

- An overwhelming number of keyboard shortcuts available
- [http://docwiki.embarcadero.com/RADStudio/en/Default\\_Keyboard\\_Shortcuts](http://docwiki.embarcadero.com/RADStudio/en/Default_Keyboard_Shortcuts)
- Many based on the ancient WordStar word processor keyboard shortcuts
- Many were present in Turbo Pascal & Borland Pascal
- `Ctrl+Q+?` is a *Quick* operation
- `Ctrl+K+?` is a *block* operation
- `Ctrl+O+?` is an *Other* operation
- More recent additions just fill in any available gaps

# The Editor

- Code Insight – Code Completion
  - Manually invoked by `Ctrl+Space`
  - Supports being alpha-sorted
  - Supports being resized
- Code Insight – Code Parameters
  - Manually invoked with `Ctrl+Shift+Space`
- Code Insight – Code Templates (now Live Templates)
  - Manually invoked with `Ctrl+J`
  - Stored in the folder:  
`%USERPROFILE%\Documents\Embarcadero\Studio\code_templates`

# The Editor

- Help Insight
  - Enabled by default
  - `Ctrl+Shift+H`
  - Works with Code Completion window
- Error Insight
  - Enabled by default
  - Symbol existence verification
- Class completion
  - `Ctrl+Shift+C`
  - Good property implementation

# The Editor

- Code browsing
  - `Ctrl+click` on an identifier or `Alt+↑`
  - context menu, Find declaration
  - Navigation buttons: `Alt+←` & `Alt+→`
- Module navigation
  - `Ctrl+Shift+↑` or `Ctrl+Shift+↓`
- Method hopping
  - `Ctrl+Alt+↑` and `Ctrl+Alt+↓`
  - `Ctrl+Alt+Home` and `Ctrl+Alt+End`
  - `Ctrl+Alt+mousewheel`
  - `Ctrl+Q, L`

Top of current/previous method  
First/last method  
Scroll through methods  
Class lock

# The Editor

- **Code Folding**

- `Ctrl+Shift+K+T` Fold/Unfold Current Block
- `Ctrl+Shift+K+E` Fold | Nearest
- `Ctrl+Shift+K+C` Fold | Types (classes)
- `Ctrl+Shift+K+M` Fold | Methods
- `Ctrl+Shift+K+P` Fold | Nested Procedures
- `Ctrl+Shift+K+R` Fold | Regions
- `Ctrl+Shift+K+G` **Fold interface and implementation**
- `Ctrl+Shift+K+N` Fold | Namespace (Unit)
- `Ctrl+Shift+K+U` Unfold | Nearest
- `Ctrl+Shift+K+A` Unfold | All
- `Ctrl+Shift+K+O` **Toggle code folding**

# The Editor

- Refactoring

- `Ctrl+Shift+V` Declare Variable
- `Ctrl+Shift+D` Declare Field
- `Ctrl+Shift+M` Extract Method
- `Ctrl+Shift+L` Extract Resource String
- `Ctrl+Shift+A` Find Unit
- `Ctrl+Shift+E` Rename
- `Ctrl+Shift+J` Sync Edit
- `Ctrl+Shift+Enter` Find usages



# The Editor

- TwoDesk Castalia

- Ctrl+Alt+N, Ctrl+Alt+U Navigation Toolbar Used Units
- Ctrl+Alt+N, Ctrl+Alt+S Navigation Toolbar File Sections
- Ctrl+Alt+N, Ctrl+Alt+T Navigation Toolbar Types
- Ctrl+Alt+N, Ctrl+Alt+P Navigation Toolbar Methods
- Ctrl+Alt+N, Ctrl+Alt+F Navigation Toolbar Project Symbol Search
- Ctrl+W Expand selection
- Ctrl+Alt+Shift+P Synchronize signatures
- Home Smart Home

# The Editor

- Bookmarks

- Toggle: `Ctrl+Shift+n` or `Ctrl+K+n` ( $n = 0$  (maybe), 1, 2, ..., 9)
- Go to: `Ctrl+n` or `Ctrl+Q+n` ( $n = 0, 1, 2, \dots, 9$ )
- Historically weren't persisted in project desktops
- Alternative was to use disabled breakpoints, which *are* persisted
- Use the Breakpoints window to navigate (View | Debug Windows | Breakpoints or `Ctrl+Alt+B`)

- Stack bookmarks

- `Ctrl+K+G` Drop a stack bookmark
- `Ctrl+Q+G` Pick up last stack bookmark, moving cursor to it
- `Ctrl+Alt+Q, Ctrl+Alt+G` Swap last stack bookmark and cursor position

# The Editor

- Keyboard macros:
  - Start/stop recording: `Ctrl+Shift+R`
  - Playback: `Ctrl+Shift+P`
  - Limited to editor keystrokes only
  - Macro toolbar
- Case-switching:
  - Upper case: `Ctrl+K+N`
  - Lower case: `Ctrl+K+O`
  - Toggle case: `Ctrl+O+U` – great for non-touch typists
- Buffer list:
  - `Ctrl+B`
- Open files:
  - `Ctrl+Alt+F12`

# The Editor

- Change navigation
  - `Ctrl+Shift+F7 / F8`: previous next change
- Block marking
  - `Shift+navigation keys`
    - Non-inclusive: `Ctrl+O+K` (default)
    - Inclusive: `Ctrl+O+I`
    - Line: `Ctrl+O+L`
    - Column: `Ctrl+O+C`
  - `Alt+Shift+navigation keys` or `Alt+mouse`
    - Column block marking

# The Editor

- Block indent
  - `Ctrl+Shift+I`, `Ctrl+K+I` or `Tab`
- Block unindent
  - `Ctrl+Shift+U`, `Ctrl+K+U` or `Shift+Tab`
- Block operations
  - Toggle comment: `Ctrl+/'`
  - Write to text file: `Ctrl+K+W`
  - Read from text file: `Ctrl+K+R`
  - Print: `Ctrl+K+P`

# The Editor

- Select the current word
  - `Ctrl+K+T`
- Delete to the next word
  - `Ctrl+T` or `Ctrl+BackSpace`
- Delete to the end of the line
  - `Ctrl+Shift+Y`, `Ctrl+Q+Y`
- Delete the current line
  - `Ctrl+Y`
- Selecting lines
  - `Home`, `Shift+↑` or `Shift+↓`
- Incremental search
  - `Ctrl+E`

# The Editor

- Drag & drop
  - Dragging text moves it
  - `Ctrl`+dragging text copies it
  - Same functionality as Microsoft Word
  - Preserves clipboard content

# The Form Designers

- Selecting a component's parent
  - `Escape`
- Selecting the form
  - Select a component, then `Shift+click` it
- Lassoing on a container
  - `Ctrl+drag` mouse
- Hide non-visual components
  - `Ctrl+H`



# The Form Designers

- Moving & sizing components:

	VCL designer	FMX designer
Move by one grid unit	<code>Ctrl+Shift+cursor keys</code> or drag component	<code>Ctrl+Shift+cursor keys</code> or drag component
Move by one pixel	<code>Ctrl+cursor keys</code> or <code>Alt+drag component</code>	<code>Ctrl+cursor keys</code>
Resize by one grid unit	Drag grab handle	Drag grab handle
Resize by one pixel	<code>Shift+cursor keys</code> or <code>Alt+drag grab handle</code>	<code>Shift+cursor keys</code>

# The Object Inspector

- Property editor keyboard access
  - `Ctrl+Enter`
- Incremental property search
  - `Tab`
- Instance list
  - `Ctrl+↓`
- Following linked components (VCL-only)
  - `Ctrl+double-click`

# Miscellaneous

- Tool Palette search
  - `Ctrl+Alt+P`
- IDE Insight
  - `Ctrl+. or F6`
- Using project units
  - `Alt+F11`
- Preventing docking
  - Hold down `Ctrl`
  - Use the environment option

# Questions/Consultancy?

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