

C++ Technical Session

Harness the Power of the C++ Language and RAD/Visual Application Development



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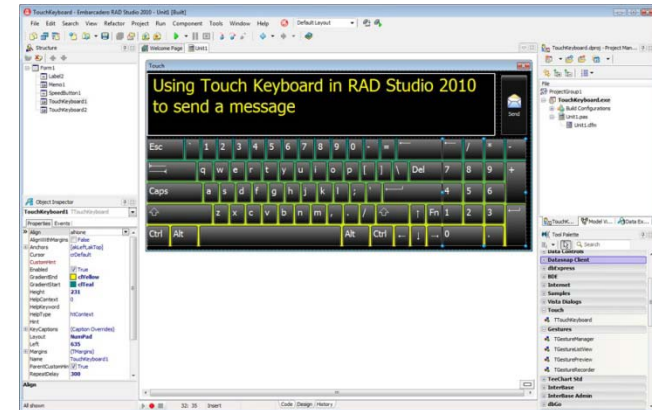
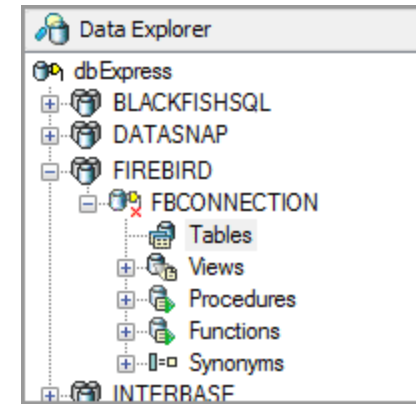
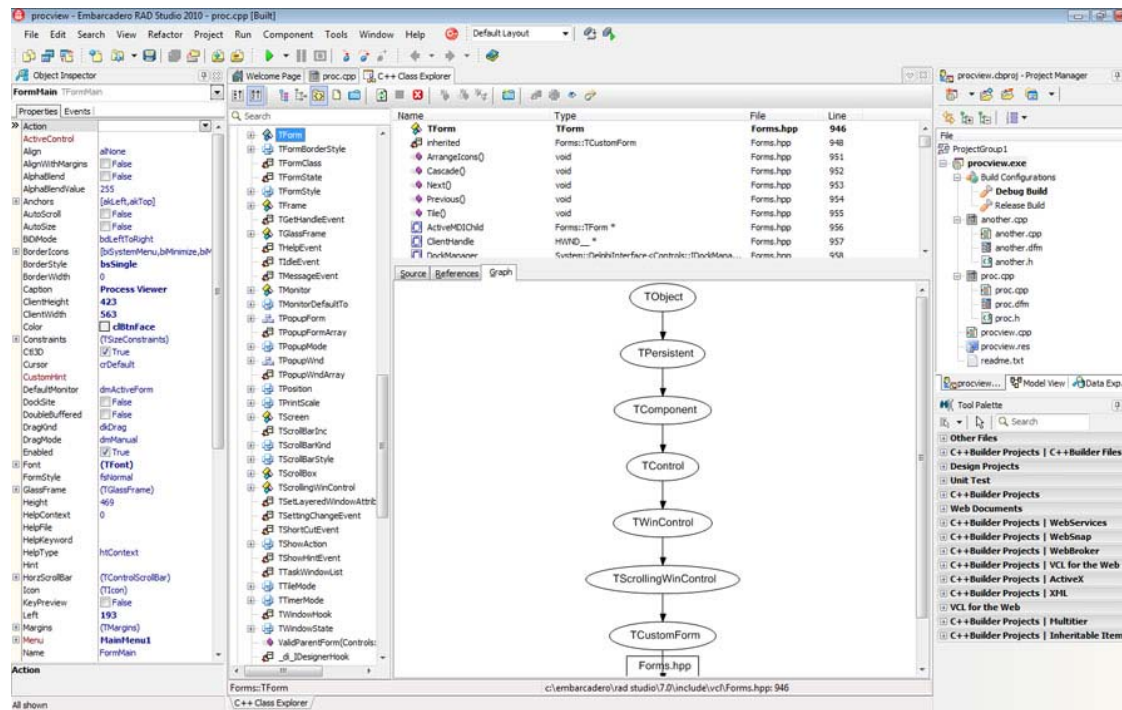
What we will cover

- Using the latest C++ language features included in C++0x
- Leveraging the standard C/C++, BOOST, TR1 libraries
- Advanced debugging for multi-threaded applications
- Viewing your data with debug visualizers
- How to modernize your C++ Windows application UI(s) with
 - Ribbon Controls
 - Touch/Gesture
- New TDirectory class
- REST client application development to leverage Web platform APIs



C++Builder 2010

- The power of both C and C++ languages and libraries, with the productivity of visual rapid application development



C++Builder 2010

- Integrated ANSI/ISO C++ tools with draft C++0x support
- RAD IDE with fast drag-and-drop design
- Integrated Boost and TR1 libraries
- Over 250+ VCL controls
- Built-in touch and gesturing support
- dbExpress with support for 9 major databases
- Create DataSnap clients that access Delphi n-tier middleware servers with JSON, REST, HTTP, COM, and XML
- Target Windows 2000, XP, Vista, and Windows 7 from single source
- Centralized license management and tool deployment with Embarcadero ToolCloud

C++Builder 2010

- New C++ Class Explorer
- IDE Insight, Data Visualizers in Debugger, Multi-thread debugging
- C++ Code Formatter
- Touch and Gesturing, Direct2D and Windows 7 API
- Additional SQL databases / versions
 - InterBase SMP 2009
 - FireBird 1.5 and 2.1
 - Oracle 11g
 - MS SQL Server 2008
- SOAP 1.1/1.2 clients and SOAP 1.1 servers
- Dinkumware STL v5.01 and BOOST v1.39 libraries

C++ Compiler 2010

- FastMM is now standard heap manager for C++ runtime libraries
- Support for `#pragma once`
- `-Zx` option for generating XML representation of source code
- Added support for `_FUNCTION_`
- Support for `[[deprecated]]` attribute
 - `[[deprecated("You can say why and what to use instead")]]`
- `__declspec(dllexport)` for template classes

C++Builder 2009 – Unicode and C++0x

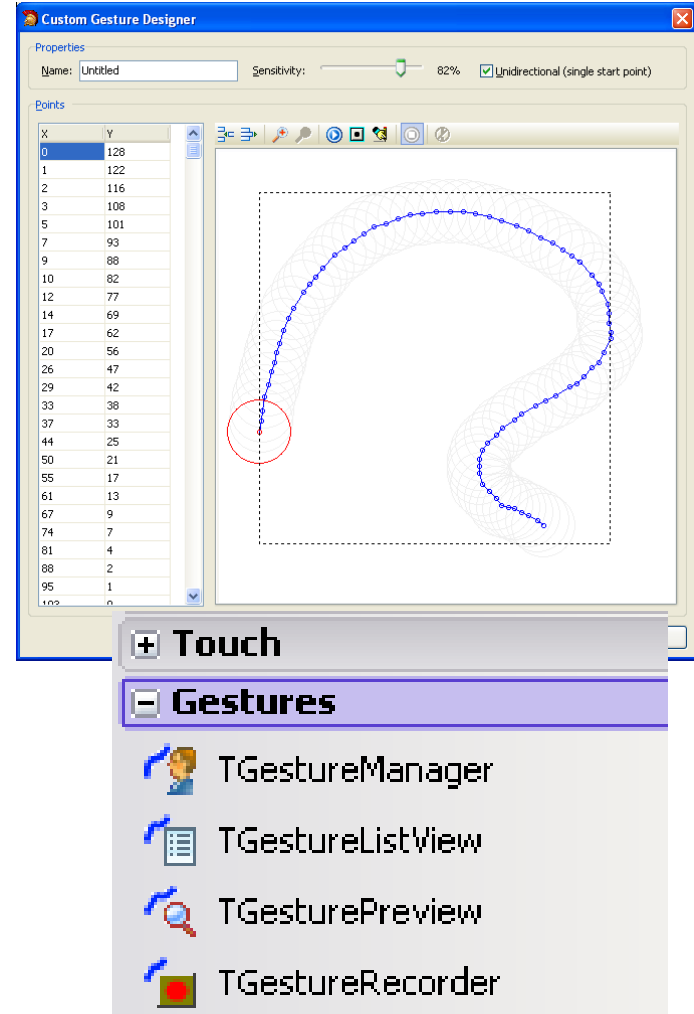
- Unicode
- UnicodeString class
- Unicode character types `char16_t` and `char32_t`
- Explicit conversion operators
- Static assertions
- Scoped enumerations
- Full type trait support
- Extern templates
- `[[final]]` and `[[noreturn]]` attributes
- `decltype` keyword

TDataSet and its descendants

- TDataSet
 - (DBClient) TClientDataSet
 - (DBX) TSQLDataSet, TSQLQuery, TSQLTable, TSQLStoredProc
 - (DataSnap) TSqlServerMethod
 - (BDE) TTable, Tquery, TStoredProc
 - (ADO) TAdoTable, TAdoQuery, TAdoStoredProc
 - (IBX) TIBCustomDataSet, TIBTable, TIBQuery, TIBStoredProc

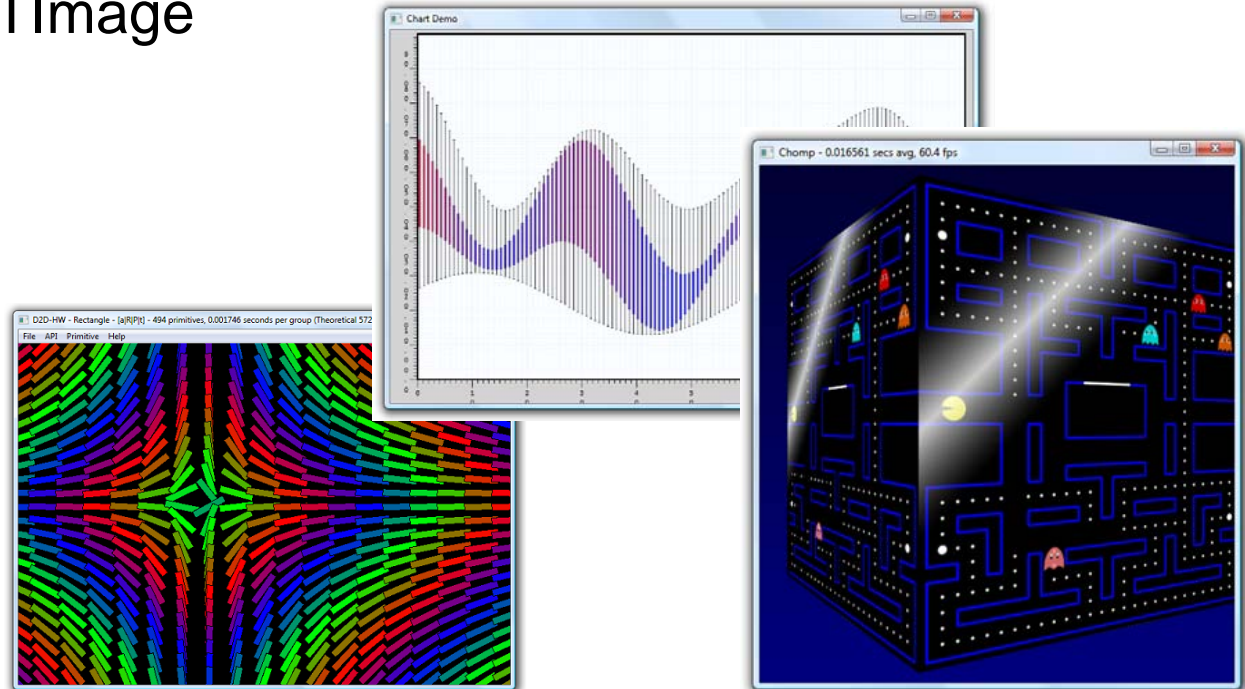
Touch and Gesturing

- Pluggable gesture engine architecture
- Works on all supported versions of Windows, not only Windows 7
- Use touch-enabled hardware or work with what you have (mouse, stylus)
- 30+ standard gestures (“TStandardGesture” enumerated type)
- Custom Gesture Editor
- TTouchKeyboard component and framework for creating virtual keyboards



Direct2D and Windows 7 API

- TDirect2DCanvas supports Direct2D and DirectWrite (Windows 7 only)
- TGraphic wrapper for WIC (TWICGraphic)
- TIFF support in TImage





Demonstration

C++Builder Resources

- RAD Studio in Action – C++Builder
 - Technical White Paper
 - <http://www.embarcadero.com/rad-in-action/cbuilder>
- C++Builder what's new
 - <http://www.embarcadero.com/products/cbuilder/whats-new>
- RAD Studio Reviewer Guide
 - <http://www.embarcadero.com/products/rad-studio/rad-studio-2010-reviewer-guide.pdf>
- C++Builder Resource Center
 - <http://www.embarcadero.com/products/cbuilder/resource-center>

C++Builder Resources

- DocWiki
 - http://docwiki.embarcadero.com/RADStudio/en/Main_Page
 - <http://docwiki.embarcadero.com/CodeSamples/en/Category:C%2B%2B>
- CodeRage replays
 - C++0x Language Features - Lee Cantey – Embarcadero
 - Porting your C++ VCL Applications to RAD Studio 2009 - Bruneau Babet – Embarcadero
 - <http://conferences.embarcadero.com/coderage/article/38874>
- Migrating to C++Builder 2010 – On Demand Webinar
 - <http://update.codegear.com/forms/AMUSCA0912CBuilderMigrationWebinar12-15>

Thank You - Bob Swart

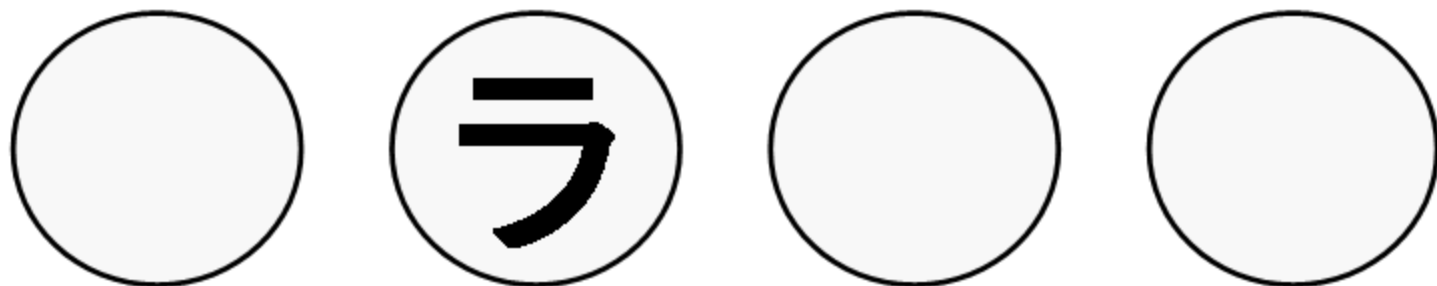
- Thank you Bob Swart for the C++Builder DataSnap server notes
- Contact Bob if you need the “how to” notes at: bob@ebob42.com



クイズに答えて賞品を当てよう！

問題

「エンバカデロ、2010年は**ツール〇〇〇〇**」。
〇〇〇〇に入る4文字のカタカナは？



素敵な賞品が当たる！応募はこちらから

http://forms.embarcadero.com/forms/dcamp_quiz



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応募締切は3月12日15時まで！



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Thank You

