

Delphi Developer Days 2014

DelphiDeveloperDays.com

Session Descriptions

Day 1

8:30am - 9:10am

Keynote by Embarcadero Technologies

Washington DC/Baltimore: *Jim McKeeth, Embarcadero Technologies*

Chicago: *Jim McKeeth, Embarcadero Technologies*

Frankfurt, Amsterdam, and London: *Embarcadero Technologies*

Day 1

9:10am - 10:30am

Overview of Mobile Development

Bob Swart and Cary Jensen

This session covers how to setup your iOS and Android development environments, as well as designing, developing and deploying applications (also for debugging, ad-hoc or "store"). We'll also include an overview of the NextGen compiler features.

Day 1

10:45am - 12:10pm

Exploring the Cross Platforms

Bob Swart

This session includes exploring and comparing the file system on Windows, Mac OS X, iOS as well as Android, taking specific care to "external" disks like SD cards using the TPath class. Apart from the file system, we'll also see differences in "user space", where to place (deploy) what, how to deploy, who can see/read/write/touch things, etc.

Day 1

10:45am - 12:10pm

Introduction to FireDAC

Cary Jensen

FireDAC is a comprehensive data access mechanism, and a perfect replacement for the deprecated Boland Database Engine (BDE). This presentation provides you with a general overview of FireDAC's capabilities, along with an in-depth look at configuring FireDAC to connect to your database of choice.

Day 1

1:00pm - 2:40pm / 13:00 - 14:40

Effectively using (DB) "Business Rules"

Bob Swart

In this session, I will show the different ways to place your data entry validation and business rules (on a field basis, record basis, or table basis), and to help separate the GUI and the database, so we can add other "front ends" on the same data module. After the stand-alone app, I will also discuss and show how to do it in a remote application with a database application server (and then the consequence of storing most business rules in one central place will become more obvious).

Day 1

1:00pm - 2:40pm / 13:00 - 14:40

Object-Oriented Programming Part 2:

Classes, Components, Records, and Interfaces

Cary Jensen

This presentation examines Delphi's object model, and includes a look at many of Delphi's latest capabilities. Topics covered here include properties, methods, constructors, overloading and overriding, default parameters, member fields, nested types, visibility, interface implementation, and much more.

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Session Descriptions

Day 1

3:00pm - 4:30pm / 15:00 - 16:30

Advanced Language Features in Delphi

Cary Jensen and Bob Swart

In this session, we look at some of the advanced language features added to Delphi in the last eight years. Topics discussed include generics, anonymous methods, anonymous threads, and RTTI (runtime type information). These features make Delphi a modern, current development tool, and can help take your coding to a whole new level.

Day 1

4:30pm - 5:30pm / 16:30 - 17:30

Guest Speaker Session and Roundtable Q&A with Bob and Cary

Bob Swart and Cary Jensen

Bob and Cary conclude Day 1 with a review of some of the highlights of the day, followed by an open question and answer session. Here you can ask any remaining questions you have about the material covered in Day 1, as well as questions about Delphi and the Delphi community in general.

Day 1 Guest Speaker Sessions

Delphi and Google Glass

Washington DC/Baltimore: *Jim McKeeth, Embarcadero Technologies*

Google Glass is a wearable Android device (not yet out for consumers) and an exciting new platform and form factor. Jim McKeeth demonstrates how to create a Google Glass application with Delphi XE5.

Delphi Discussion

Washington DC/Baltimore: *Nick Hodges, Veeva Systems*

Join Nick Hodges, Current Manager with Veeva Systems and former Delphi Product Manager, along with Bob and Cary in this discussion on Delphi and Delphi development.

Delphi Discussion

Chicago: *Ray Konopka, Raize Software*

Ray Konopka, President of Raize Software, an Embarcadero MVP, and a Disney "Cast Member" (Disney part-time employee) shares his views on Delphi development in this discussion with Bob and Cary. You'll also have a chance to ask Ray your questions on what it's like to develop and market Delphi-related products, and anything else.

Delphi Discussion

Frankfurt: *Bruno Fierens, TMS Software*

Bruno Fierens is the head of TMS Software, an Embarcadero MVP, and a co-organizer of BE-Delphi (Belgium). Bob and Cary hold a live interview with Bruno on Delphi development, TMS Software, project management, and other topics. Find out what Bruno and the TMS team are up to and bring your questions about the business of software development.

Creating Reports for VCL and FireMonkey Using FastReport

Amsterdam: *Michael Phillipenko and Denis Zubov, Fast Reports*

Michael Phillipenko, CEO at Fast Reports, and Denis Zubov, Lead Developer at Fast Reports, show a number of techniques for creating reports for VCL and FireMonkey applications using FastReport, the extraordinary reporting product for RAD Studio. You'll also have a chance to ask Michael and Denis questions about reporting and Delphi development in general.

London: *Brian Long, Brian Long Consultancy & Training Services*

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Session Descriptions

Day 2

8:30am - 9:30am

Data Awareness in Cross-Platform Applications

Cary Jensen and Bob Swart

FireMonkey, Delphi's cross-platform component framework, introduces a new data binding mechanism, LiveBindings, that can also be used with VCL (Visual Component Library) components. This presentation provides you with an in-depth look at LiveBindings, and includes discussions of binding expressions and the expression engine. This presentation also examines alternative techniques for presenting data that do not make use of LiveBindings.

Day 2

9:35am - 10:45am

Object-Oriented Programming Part 1:

Component Templates, Visual Form Inheritance, and Frames

Cary Jensen

This series of sessions, focusing on object-oriented programming with Delphi, begins by looking at several productivity features available through Delphi's integrated development environment (IDE). It begins with component templates, a handy yet little known timesaving feature. It continues with a discussion of the advantages and limitations of Visual Form Inheritance. This session concludes with an in-depth look at Frames, including how to leverage the power of these visually designed modules.

Day 2

9:35am - 10:45am

REST Development and REST Client Tools (REST Debugger)

Bob Swart

Delphi supports the creation of DataSnap REST Servers, but also includes new REST Client components as well as a REST Debugger to assist in the development of REST applications. This session covers all of these topics.

Day 2

11:00am - 12:15pm

Object-Oriented Programming Part 3:

Advanced Class Development

Cary Jensen

This final look at object-oriented programming examines Delphi's classes that you can use to enhance your development experience. Here you will learn how to implement your own property and component editors, extend Delphi's debugger, and create your own add-ons to Delphi's code editor.

Day 2

11:00am - 12:15pm

Exceptions, Assertions and Unit Testing

Bob Swart

Topics covered in this session include: Exceptions, Inner Exceptions, Assertions, Memory Management, Unit Testing Framework, and using Unit Testing for "black box" servers like DataSnap, REST and SOAP.

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Session Descriptions

Day 2

1:00pm - 2:20pm / 13:00 - 14:20

Advanced Mobile (DB) Development (Android + iOS)

Bob Swart

In this session, I will cover how to use remote as well as offline (local) database connections and database files on your mobile devices (for iOS and Android), using MySQL, InterBase as well as DataSnap (for remote solutions).

Day 2

1:00pm - 2:20pm / 13:00 - 14:20

Advanced FireDAC Techniques

Cary Jensen

In this presentation, we dive into some of the more advanced and sophisticated features found in FireDAC. Here you will learn how to cache updates to your database, execute SQL statements against the datasets in your application, and write flexible SQL statements that include conditional execution and runtime substitution. Many of the techniques shown here can even be used to add advanced features to your existing applications, without completely replacing your current data access mechanism.

Day 2

2:40pm - 4:30pm / 14:40 - 16:30

Delphi Tips, Tricks and Techniques

Bob Swart and Cary Jensen

Always a favorite session at Delphi Developer Days, the Tips, Tricks, and Techniques session provides Cary and Bob the chance to share some of their favorite and sometimes obscure magic from their Delphi toolkits.

Day 2

4:30pm - 5:00pm / 16:30 - 17:00

Roundtable Q&A with Bob and Cary

Bob Swart and Cary Jensen