



Advanced Flex – Master Class

Farata Systems presents new curriculum for Advanced Flex Master Class. At this point this training is available onsite for corporate clients only (email your inquiries to Yakov Fain: yfain@faratasystem.com).

Instructors

Yakov Fain authored several technical books, and dozens of articles on software development. Recently he co-authored the books "Rich Internet Applications with Adobe Flex and Java: Secrets of the Masters" and "Enterprise Development with Flex". Sun Microsystems has nominated and awarded Mr. Fain with the title of Java Champion, which was presented to only a hundred people in the world. He leads the Princeton Java Users Group. Yakov is Certified Adobe Flex Instructor.

Dr. Victor Rasputnis spends most of his time providing architectural design, implementation management and mentoring to companies migrating to Flex and J2EE technologies. Victor authored several books and dozens of technical articles. He holds PhD in Computer Science. Recently he co-authored the books "Rich Internet Applications with Adobe Flex and Java: Secrets of the Masters" and "Enterprise Development with Flex".

Anatole Tartakovsky spent more than 20 years developing complex distributed systems. In the last ten years, his focus has been on creating frameworks and business applications for dozens of enterprises ranging from Wal-Mart to Wall Street firms. Anatole has authored a number of books and articles on AJAX, Flex, XML, the Internet, and client-server technologies. He holds an MS in Mathematics. Anatole knows most of the source code of Flex framework and BlazeDS by heart.

Courseware

Each attendee will receive the following:

- A copy of the book "Enterprise Development with Flex" written by the instructors of this class and published by O'Reilly in March 2010.
- Sample code and used during the presentations
- All PowerPoint slides used during this class

Course Outline

Day 1. Flex 4, Frameworks, Design Patterns, Testing

- Comparing Flex MVC frameworks
- Selected design patterns in Flex
- Staffing Flex projects
- Testing Flex applications
- Occasionally connected AIR applications (a salesman is on the road)
- Printing with Flex
- Overview of Flex 4 new features (spark components, skins, view states)

Day 2. Modules, Libraries, RSL's and Sub-Applications (hands-on)

- Peeking inside the Application and Library SWF's
- Three library linkage types: External, RSL, Merge-in
- Self-initialized libraries for truly dynamic RSL loading
- More efficient RSL loading
- How to organize builds of modularized applications in Flex teams
- How to organize isolated module testing while developing Flex portals
- Flex and Flash loaders
- ModuleLoader vs. ModuleManager
- Dynamic styles
- Intra-module communication in a loosely-coupled way
- A Tree of the application domains
- Best practices when working with Modules
- Working with sub-applications

Day 3. Flash VM, UI Components, BlazeDS, Data Synchronyization

- Architecture of Flash Player VM
- Best practices for developing custom UI Components
- Open source alternatives to LiveCycle Data Services
- A half-day hands on workshop on data synchronization with BlazeDS

Day 4. Relaiable Messaging, Performance, Case Study, Open Discussion

- Best practices for item renderers
- Advanced Flex validation
- Reliable messaging with BlazeDS
- Authorization and authentication in enterprise Flex applications
- Performance considerations and recommendations
- Case Study: Advanced Insurance Sales applications with AIR
- Open discussion reviewing YOUR applications being developed in Flex