

A Look Ahead: IDL7.1 and Beyond

Chris Torrence

Bill Okubo

The IDL Team

ITT Visual Information Solutions, Boulder, CO

Chris Torrence is the IDL Software Development Manager. He has been an IDL user since 1991, and an IDL developer since 1999. Chris has worked on all aspects of IDL, including the Wavelet Toolkit, LaPACK, iTools, the IDL Workbench, and most importantly, the IDL Adventure plug-in.

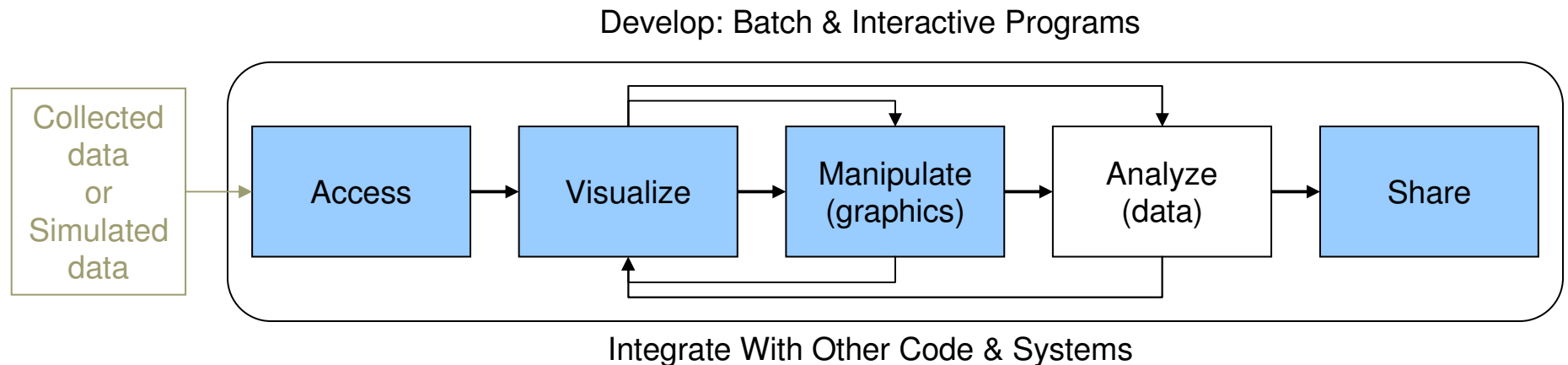
Bill Okubo is the IDL Product Manager. He has worked in both Sales and Product Marketing at the company for 12 years. In addition to IDL, Bill has been Product Manager for other products including IAS. David Fanning was actually responsible for introducing Bill to David Stern many years ago.



ITT

Visual Information Solutions

IDL User Workflow



Key Problems For Today's IDL User

- **Cannot read even the most common formats of data into IDL without using commands or programming**
- **Cannot interact with visualizations and also control them using simple procedural commands or programs**



ITT

Visual Information Solutions

IDL Product Goals

- **Modernize the IDL development environment to improve rapid development functionality**
 - IDL 7.0 Workbench
- **Improve overall usability via Workbench integration**
 - Make it easier to read data & interact with graphics
 - Provide easy-to-use modern, widget controls & behavior
 - Modernize the user experience
- **Enhance core functionality**



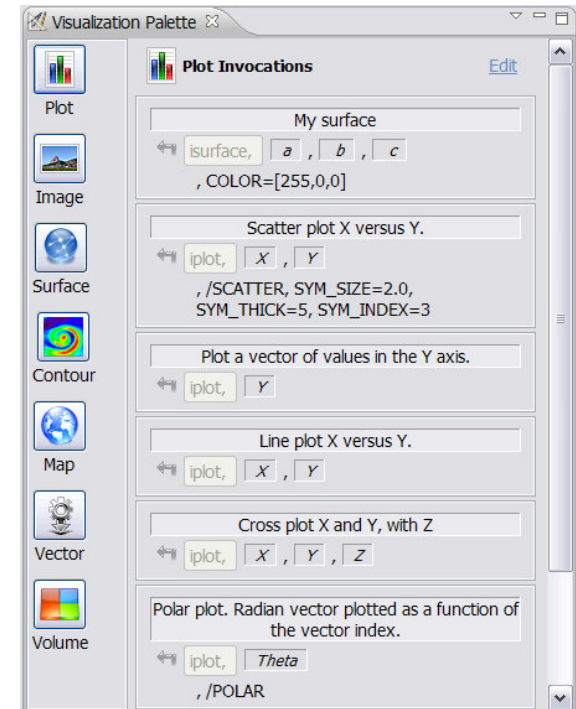
ITT

Visual Information Solutions

IDL 7.1 Feature Highlights

- **IDL Workbench Visualization Manager**
 - Open common file formats from File->Open
 - Drag & drop to create visualizations
 - Extensible – user-defined categories and action bars
- **iTools Enhancements**
 - Procedural API with simplified ID strings
 - Generate code to recreate visualizations
 - Better margins and zooming
- **Internationalization phase 2**
 - Fix File I/O issues
 - Multibyte text for object graphics
 - Support Unicode input for widgets
- **IDL Workbench**
 - Plug-in Update Site Wizard
 - Improvements & bug fixes

你好



ITT

Visual Information Solutions

IDL 7.1 Feature Highlights (cont.)

■ Data Access

- Dataminer upgrade to latest version - MySQL
- DICOMex for 64-bit Windows
- AVI Read/Write Plugin – 3rd party Ronn Kling
- CSV reader

■ Image Processing – new algorithms TBD

■ Integration

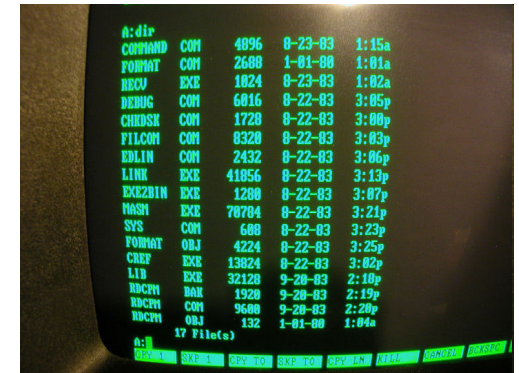
- IDL→Python Bridge – Jacquette Consulting

■ Cross Platform Support

- Windows Command Line
- Solaris 10 x86 64-bit, IDL command-line only
- OMB FDCC non-admin mandate for Windows XP & Vista
- Mac OS X 64-bit Intel (IDL 7.0.4)

■ Scientific Data Formats

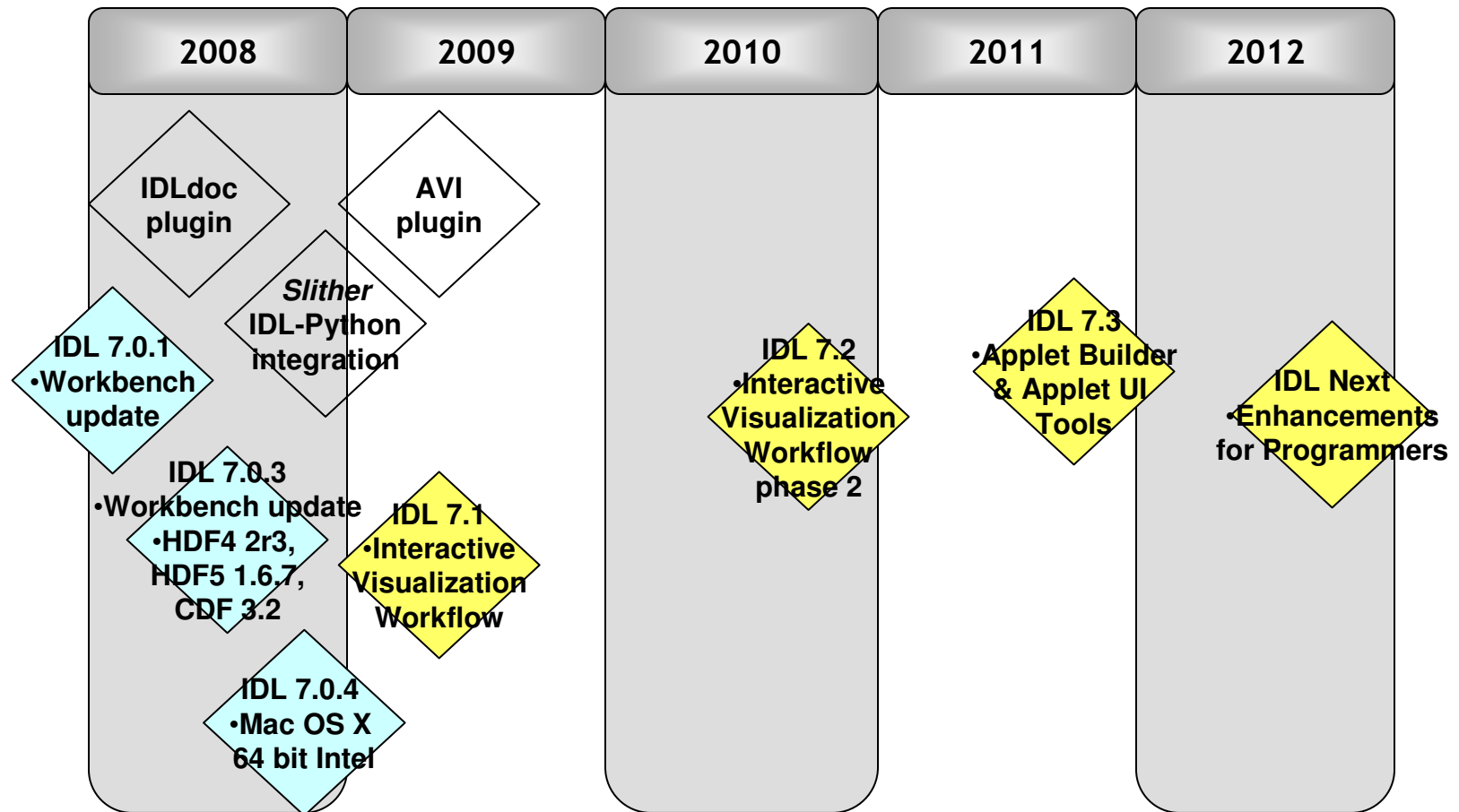
- CDF-3.2, HDF4-r2.3, HDF5-1.6.7 (IDL 7.0.3)



ITT

Visual Information Solutions

Planned Roadmap



ITT

Visual Information Solutions