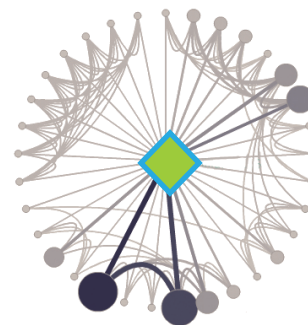


Second Annual VIVO Conference

August 24-26, 2011

Gaylord National, Washington D.C.



The three-day conference begins with a full day of workshops on August 24, 2011. The workshops are designed for those new to VIVO, those implementing VIVO and those wishing to develop applications using VIVO.

We are pleased to offer six half-day workshops at this year's VIVO conference. Each workshop is designed as a "stand alone" session that can be "mixed and matched" depending on your interest in VIVO or your role within a VIVO implementation.

A complete description of each workshop, including goals/objectives and intended audience is available on the subsequent pages.

Morning Workshops (August 24, 8:30 am – 12:00 pm)

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Introduction to Implementation pg 3

Visualization in VIVO: A case study in how VIVO data and technology can be used pg 4

Afternoon Workshops (August 24, 1:00 pm – 4:30 pm)

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Data Acquisition for VIVO: Extended Ingest by Example pgs 7-8

Introduction to Development on the Open Source VIVO Project

August 24, 2011

8:30 am – 12:00 pm

Facilitators

- Jim Blake, Cornell University
- Jon Corson-Rikert, Cornell University
- Stella Mitchell, Cornell University
- Narayan Raum, University of Florida
- Stephen V. Williams, University of Florida
- Rebecca Younes, Cornell University

Intended Audience

- Developers
- System Administrators
- IT Directors
- Other IT Personnel

Objectives

1. Review the process of joining and contributing to the open source VIVO project
2. Guide the attendees through committing their first unified diff to JIRA, updating the wiki and using the IRC channel
3. Discuss exciting possibilities that come with an open source project
4. Provide encouragement to extend and contribute back to VIVO
5. Obtain feedback from the audience on the current process of joining and contributing to VIVO from the developer's perspective

Content Overview

The morning development workshop focuses on the basics to working with VIVO. Participants leaving the morning workshop will have touched the VIVO code base, been made aware of the resources available to them and be ready to try their hand at personal projects with VIVO.

This workshop focuses on the VIVO open source community. The workshop aims at providing an introductory overview of developing on the VIVO source code and contributing back to the VIVO community. Throughout the workshop we'll cover the many pieces that make up the VIVO development application:

communication → channel and listserv
information base → wiki
application repositories
application code structure
application ontology

java doc
junit testing
unified diffs
features & bugs → JIRA

Introduction to Implementation

August 24, 2011

8:30 am – 12:00 pm

Facilitators

- Leslie McIntosh, Washington University in St. Louis, VIVO Implementation Lead
- Valrie Davis, University of Florida, VIVO Implementation Lead
- Nicholas Rejack, University of Florida, VIVO Ontology

Intended Audience

People who are either:

- Interested in implementing VIVO
- Have recently implemented VIVO

Content Overview

Implementing VIVO is more than the technical installation; it is the team that is built, data ingested, and policies surrounding the product. The Introduction to Implementation is a workshop to gather, share, learn and exchange information related to technical and policy/adoption aspects of VIVO. The goal of this workshop is to assist, support and help facilitate planned, newly implemented and ongoing VIVO implementations.

- **Implementation Strategy** A portion of the workshop will be dedicated to facilitate developing or refining the implementation strategy for the participant's institution including determining the manner to ingest data, expectations for time and resources, and expectations for transition to operations.
- **Data: identification, issues and managing data** Identifying and ingesting institutional data sources is one of the more challenging aspects of implementing VIVO. Investigating the resources available and various options to data acquisition and ingest will be discussed.
- **Implementation, system, and personnel requirements** Vital to the success of VIVO at an institution is determining who, what, when, where, and how regarding technology choices and implementation. This section will cover how to decide such things as: who will operate the system; who will be back it up; who is responsible for upgrades and when will they occur; where (in which department) will this occur.
- **Ontology: data mapping details** To work with the data, a thorough understanding of the ontologies within VIVO and how to map with them is needed. An introduction to data mapping will be covered with resources highlighted for individuals to further their knowledge after the session.
- **Personalization of interface and reskinning/repurposing possibilities** Instructions will be given for altering the 'look' of VIVO with examples from various institutions.

Visualization in VIVO:

A case study in how VIVO data and technology can be used

August 24, 2011, 8:30 am – 12:00 pm

Facilitators

- Katy Börner, Cyberinfrastructure for Network Science Center, Indiana University
- Chintan Tank, Cyberinfrastructure for Network Science Center, Indiana University

Intended Audience

Some of the people who might be interested in this workshop are:

- Anyone interested in the visualization capabilities of VIVO, and the visualization work of the Cyberinfrastructure for Network Science Center.
- **Software developers** interested in an overview of the VIVO environment from a technical perspective, and a more in-depth exploration of VIVO through the lens of visualization development.
- **Librarians and Science Administrators** interested in gaining a deeper understanding of how VIVO works, exploring some of what it is already capable of, and understanding what it could be used for in the future.
- **Companies** that plan to offer value-added services for VIVO.
- **Researchers** that would like to utilize VIVO data in their scientific work.

Content Overview

VIVO is an excellent system for creating and managing faculty and researcher profiles, but it is also capable of much more. VIVO's ability to obtain and interlink data from a variety of high quality sources, including institutional systems of record and online databases, coupled with VIVO's use of open semantic web technologies, makes VIVO an exciting and powerful data platform. This platform makes VIVO itself capable of many new features, and also makes it possible for outside companies and researchers to develop their own VIVO applications and perform their own analyses using VIVO data.

This hands-on workshop aims to explore the possibilities of VIVO technology and data by way of the Cyberinfrastructure for Network Science Center's VIVO visualization work. It starts with an overview of VIVO's architecture, and explores how the architecture makes it possible to expand and build on VIVO. We then describe the Cyberinfrastructure for Network Science Center's visualization work, including an overview of the visualizations created for VIVO thus far. Taking a closer look at the VIVO visualizations, we explore their individual motivations and features, and how we use VIVO to make these visualizations possible. We conclude with a hands-on component where participants are guided through the creation of a simple visualization using live data from VIVO instance. The workshop concludes with a general question-answer session.

Advanced Development on the Open Source VIVO Project

August 24, 2011

1:00 pm – 4:30 pm

Facilitators

- Jim Blake, Cornell University
- Jon Corson-Rikert, Cornell University
- Stella Mitchell, Cornell University
- Narayan Raum, University of Florida
- Stephen V. Williams, University of Florida
- Rebecca Younes, Cornell University

Intended Audience

- Developers
- System Administrators
- IT Directors
- Other IT Personnel

Content Overview

The afternoon development workshop allows participants to “get their hands dirty” on advanced materials, such as freemarker, Hudson and selenium, the development roadmap and receiving hands on assistance from VIVO developers on their own personal projects.

This workshop focuses on the VIVO open source community from an advanced view. Participants in the advanced workshop are already knowledgeable about the wiki, IRC, listservs, website and repositories either from the morning workshop or self instruction. This workshop aims at providing an advanced look at developing on the VIVO source code and development of VIVO. We will also feature a mentor section where VIVO developers help the participants on their personal projects for VIVO. Throughout the workshop we'll cover the many of the pieces in greater detail that make up the VIVO development application:

1. JIRA Projects
2. Testing frameworks; Hudson, Selenium
3. Freemarker
4. Listeners
5. VIVO Development Cycle
6. Process to become a VIVO Developer
7. Advanced Application Development

Creating Your VIVO Marketing & Outreach Plan

August 24, 2011

1:00 pm – 4:30 pm

Facilitators

- Kaitlin Blackburn, University of Florida
- Amy Buhler, University of Florida
- Elly Cramer, Cornell University
- Kristi Holmes, Washington University in St. Louis
- Margeaux Johnson, University of Florida
- Hannah Norton, University of Florida

Intended Audience

Anyone interested in VIVO marketing and outreach, including:

- Training departments
- University research offices
- Libraries
- Administrative units

Objectives

1. Understand how VIVO outreach plans have been implemented at a variety of institutions (public, private, research-based, etc.).
2. Adapt existing marketing materials for use at your organization.
3. Create outreach and marketing plans for your organization.

Content Overview

The workshop starts with lecture and discussion regarding VIVO marketing and outreach plans from different perspectives: national, University of Florida and smaller institutions. The remainder of the workshop includes various “hands on” activities to assist participants with creating a marketing and outreach plan. The workshop is designed as a collaborative, team-based learning environment using the ADDIE instructional design model.

- Assess: key stakeholders, environment scan, use case scenarios
- Design: outreach project charter, objectives and timeline/phases
- Develop:
 - Outreach team training, including role playing, lessons learned, Q&A
 - Create/Edit marketing materials using various publishing software
 - Create/Edit PowerPoint presentations
- Implement: publicity plan, communication plan, roles and responsibilities
- Evaluate: formative and summative evaluation

Data Acquisition for VIVO: Extended Ingest by Example

August 24, 2011

1:00 pm – 4:30 pm

Facilitators

- Eliza Chan, Weill Cornell Medical College
- Nicholas Skaggs, University of Florida
- Christopher Westling, Cornell University

Contributing Authors

- Christopher Barnes, University of Florida, Development Lead
- Jon Corson-Rikert, Cornell University, Head of VIVO Development
- Stephen Williams, University of Florida
- Narayan Raum, University of Florida

Intended Audience

- Persons associated with an active or imminent VIVO Implementation
- Developers
- Data analysts

Prerequisites

- Familiar with the installation and configuration of VIVO
- Comfortable working on the linux command line
- Understand basic NIH/PubMed Entrez utility interface and PubMed data structure
- Understand the VIVO ontology

Objectives

1. Download, install and use the harvester
2. Learn how to format your input data
3. Know how to write the XSLT to map my "CSV Business Card" to VIVO Ontology
4. Understand how to write a command line shell script to import my data into VIVO
5. Be able to extend your workshop script example
6. Be comfortable with getting more information and help via IRC and mailing list
7. Be able to install and configure Harvester in a test environment
8. Get an overview and brief explanation of "advanced" Harvester examples and topics
9. Discuss "best practices" based on real world examples and empirical data
10. Have an understanding of the complexities and special challenges involved in data acquisition for VIVO

continued on next page

Content Overview

This workshop is aimed at intermediate-level implementation staff and data analysts who would like to learn how to utilize different tools for VIVO data acquisition and ingest. The attendee should be familiar with the installation and configuration of VIVO, and should feel comfortable working on the linux command line. Also, a basic understanding of data ingest principles will be helpful (examples include familiarity with CSV import, XML/XSLT, JDBC, and PubMed Entrez utilities).

The attendee will learn how to install and configure the Harvester in a test environment. Attendees will be walked through importing data about themselves into a pre-populated VIVO. Emphasis will be placed on using simple data formats like CSV files and the importance of pre-filtering your data.

Attendees will also learn and receive training on a basic publication harvest. Utilizing PubMed, we will query for a person present in our pre-made VIVO instance, and successfully harvest publications for them.

Following the harvest, we will fully introduce all of the Harvester tools and describe their usage both for data ingest as well as data analysis and query.

Next, attendees will receive brief guest presentations from successful implementers. Each guest will share examples of their own Harvester usage and real-world results. Successful data workflow examples and instruction for using the Harvester in an enterprise environment will also be shared.

We will close the workshop with a Q&A session to field questions, and send each attendee home with several examples to replicate and extend for their own data ingests. For example, each participant should be able to go back to their organization and take their example CSV file, add a thousand people to it and then use the same script they wrote in the workshop to import that same thousand people into their VIVO. Extend via example will be a core lesson of the workshop.

Attendees will understand the open source development cycle of the Harvester, and learn how they can contribute to the project. Finally, they will understand how to get help from the community and be encouraged to join the community using VIVO and its tools.