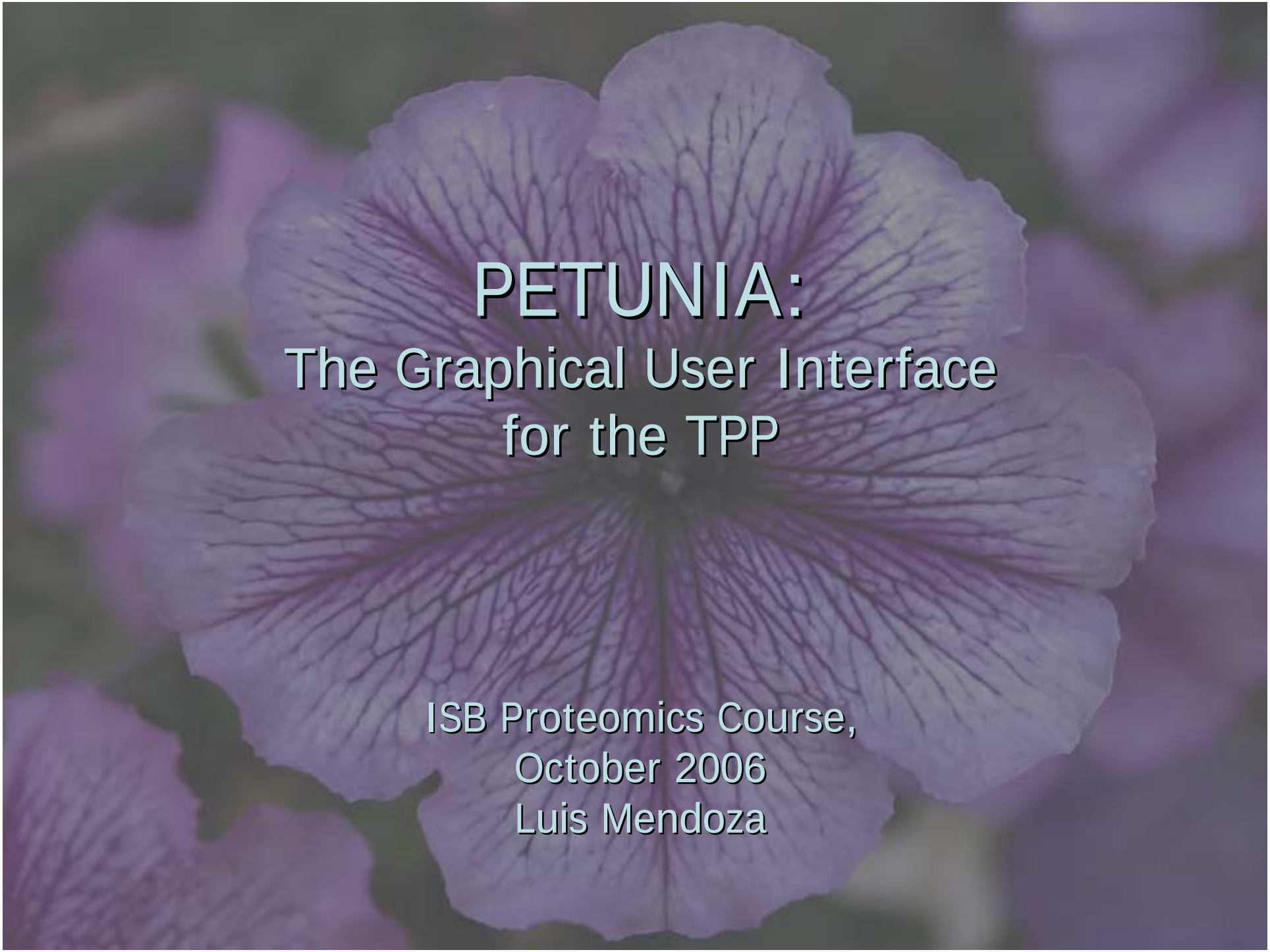


PETUNIA:
The Graphical User Interface for the TPP

ISB Proteomics Course,
October 2006
Luis Mendoza

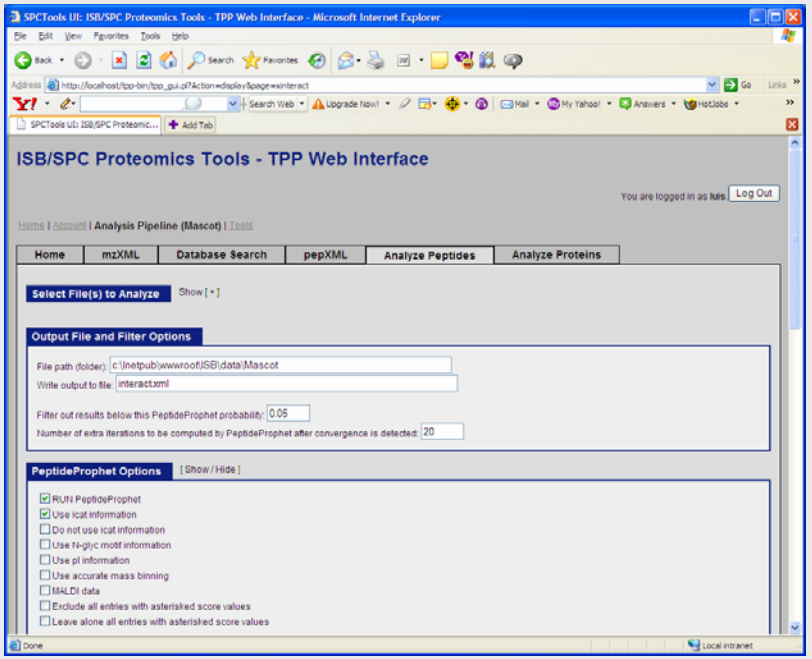
Motivation

- Ease of use
- Command-line:

```
/cygdrive/c/Inetpub/wwwroot/ISB/data/raft
raft0052.html                    raft3435.tgz    xinteract.shtml
raft0052.tgz                     raft3435.xml    xinteract.xml
raft0052.xml                     raft3637.html   xinteract.xsl
raft1011.html                    raft3637.tgz
raft1011.tgz                     raft3637.xml

$ xinteract -X -A-lDE-S raft0020.xml raft0052.xml raft1011.xml
```

- vs. Point-and-Click:

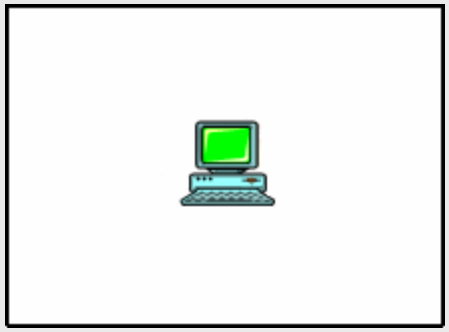


PETUNIA Features

- Client/Server architecture (remote login)
- Familiar interface via web browser
- Use of advanced web technologies to render complex pages and notify user when jobs are done
- Remotely Browse/Copy/Delete files
- Controlled access via username/password
  - *NOT* secure. (Use https:// if needed)
- IIS, Apache Webservers. Firefox, IE browsers
- It's Cool!

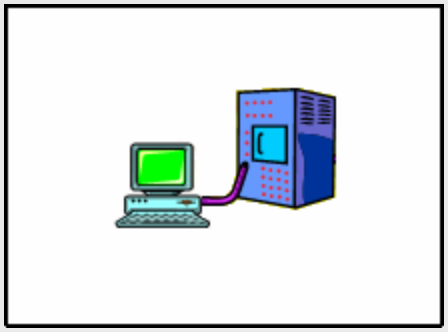
Configuration Options

- Flexibility in Tools set-up:



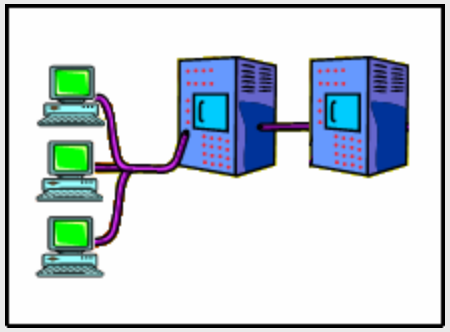
Single server

- Search software, data, TPP on a single user computer.



Search server

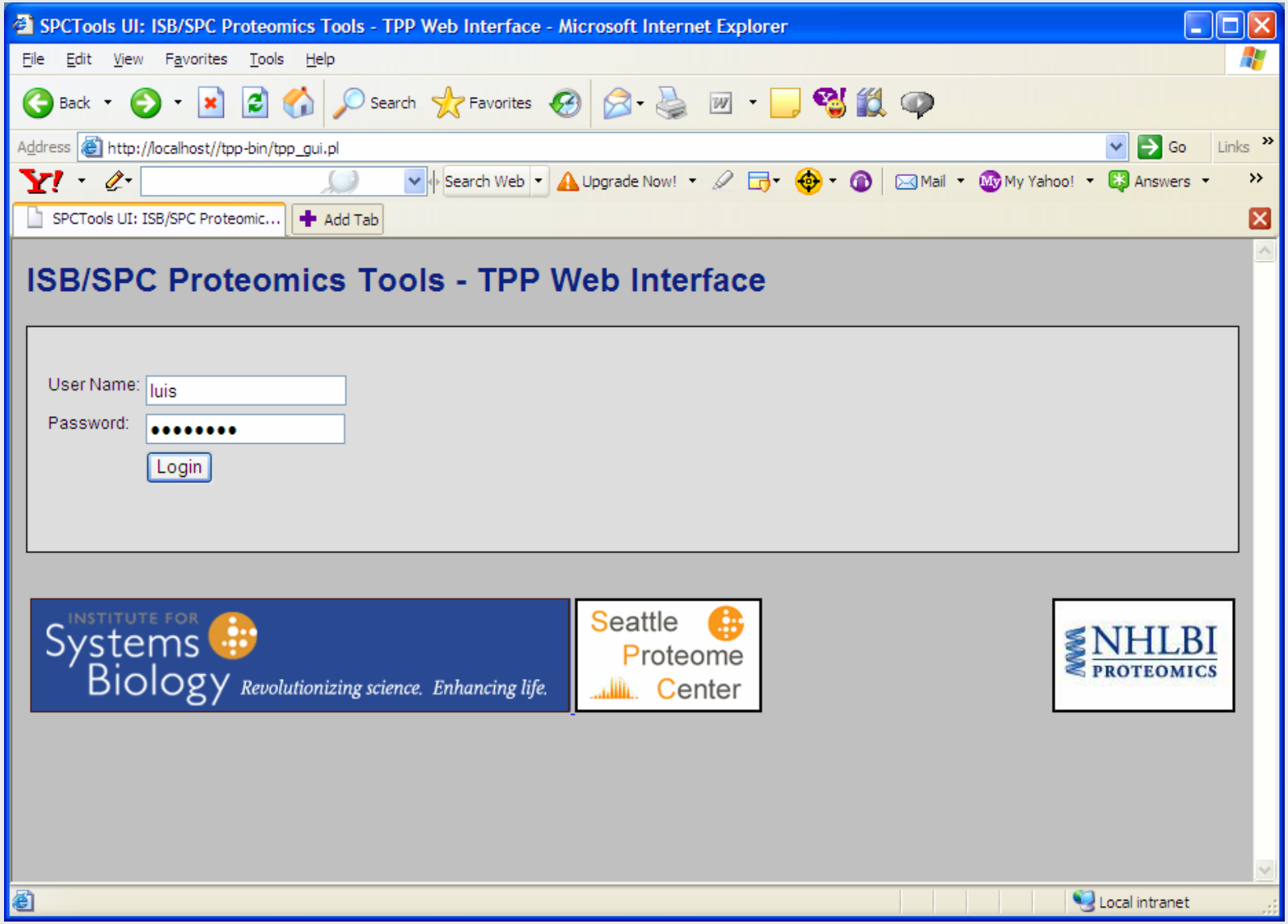
- Search software on server (cluster?)
- Data and TPP on user workstation



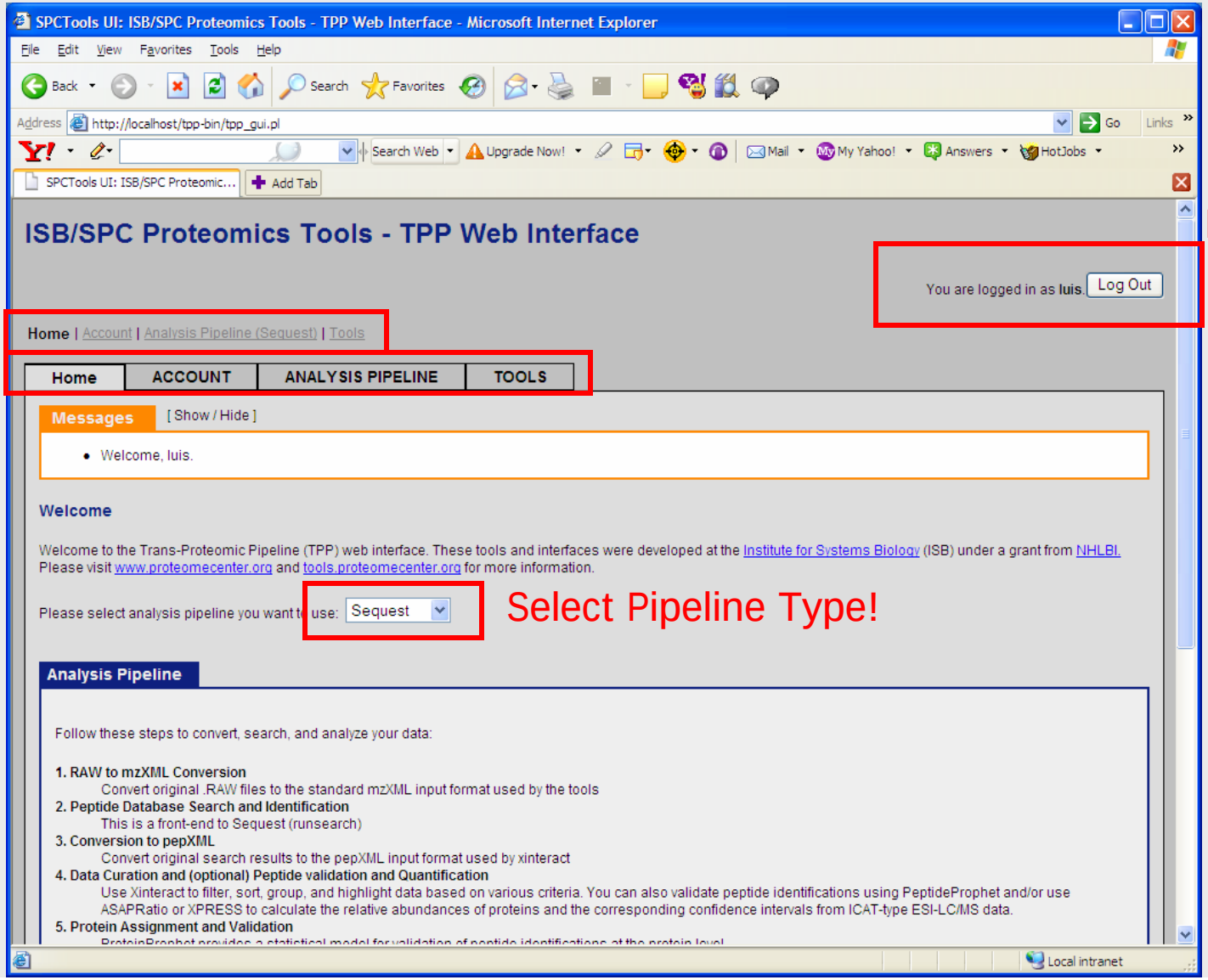
Remote access

- Search software on server (cluster?)
- Data and TPP on dedicated server
- Remote access via web browser (http)

Quick Tour: Login

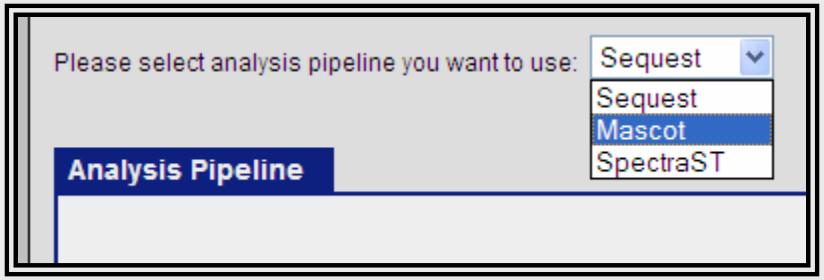


Quick Tour: Home

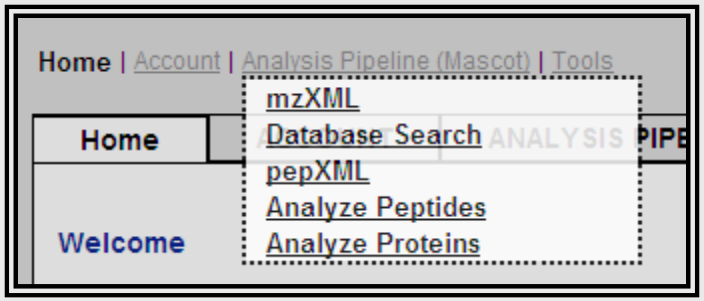


Quick Tour: Navigation

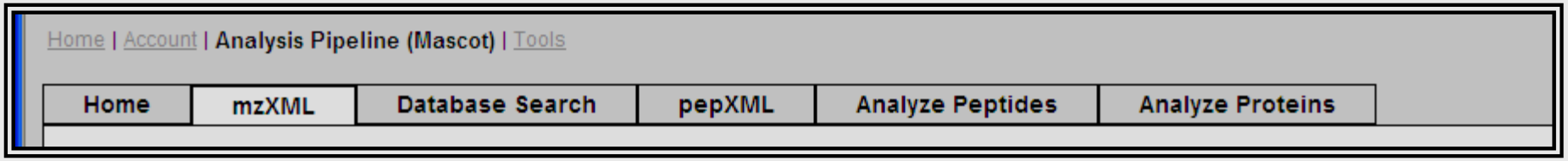
- Select Pipeline type: (default can be re-set)

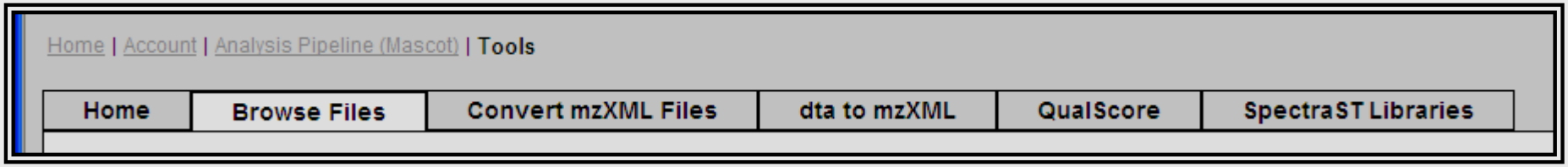


- Mouse-over sections to reveal menus



- Tabs are context-sensitive:

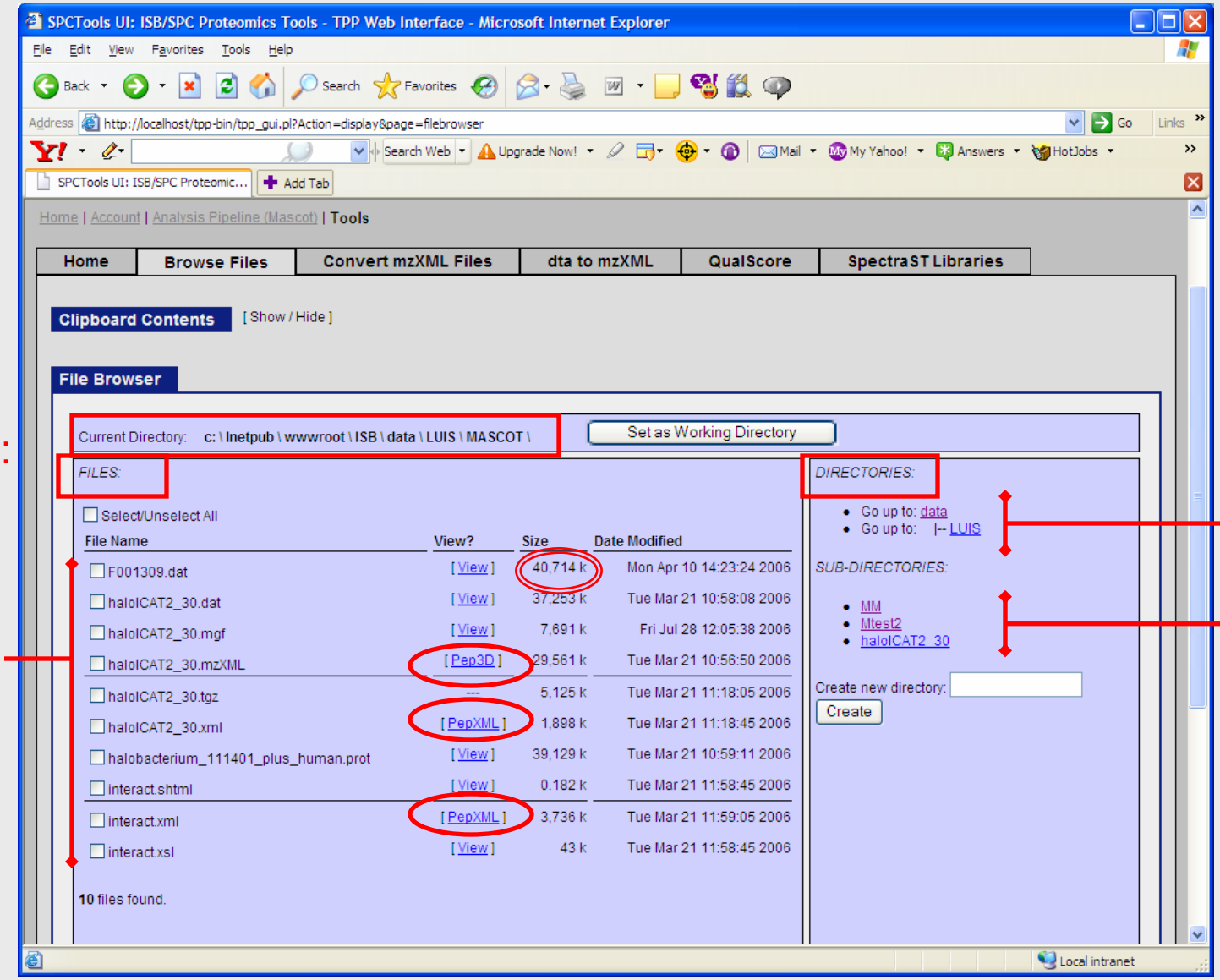




Quick Tour: File Browser(1)

- Found under TOOLS ⇨ Browse Files
- Get directory listings: file size & modified date-time
- Navigate directory tree
- View data files, old results, etc. (Launches appropriate viewer, if known)
- Create directories/folders
- Delete unwanted files
- Copy/move files (Clipboard)

Quick Tour: File Browser(2)



3 Panes:

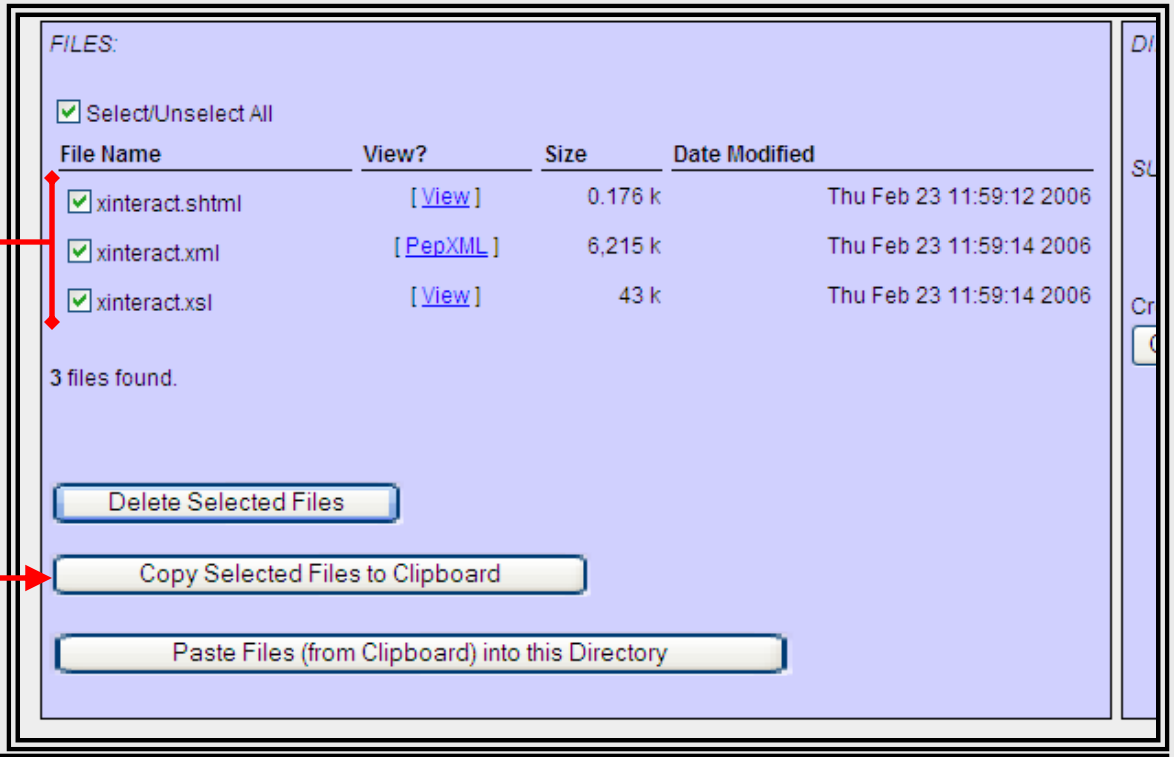
Alpha (ASCII) listing

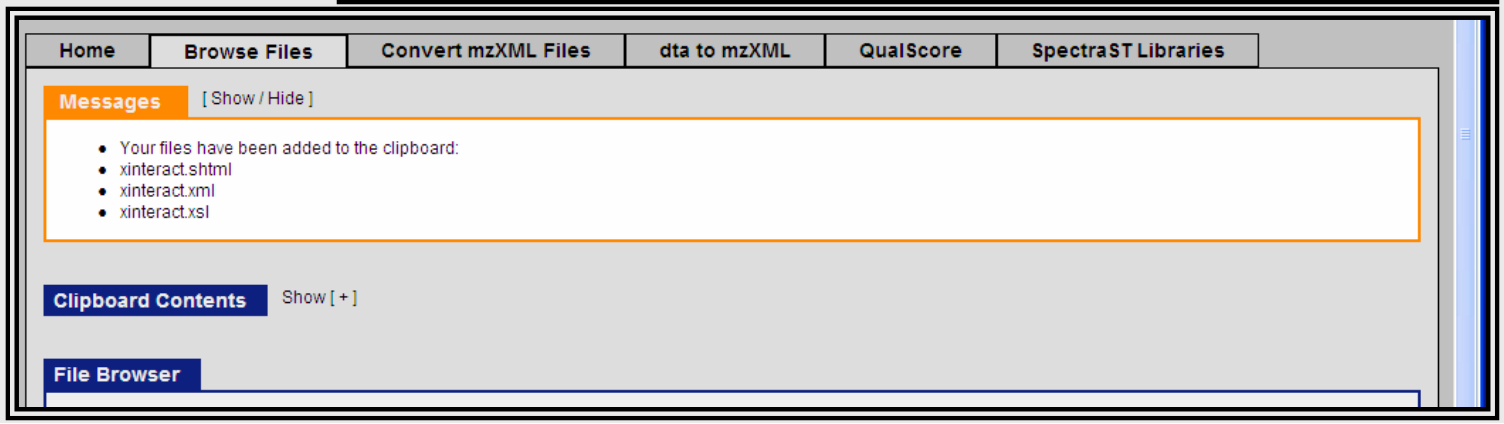
Navigate up tree

Subdirs

Quick Tour: File Copy

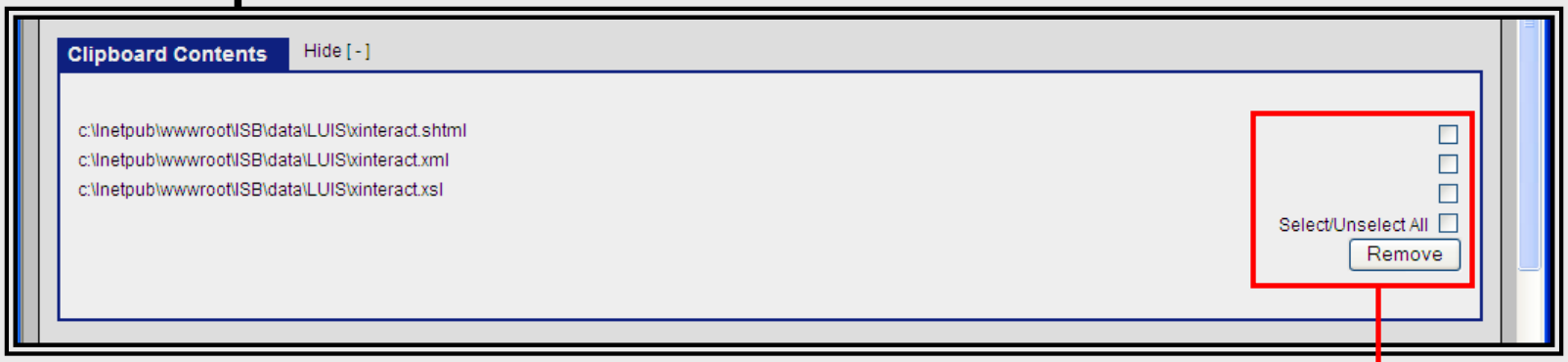
- Select Files
- Click here!



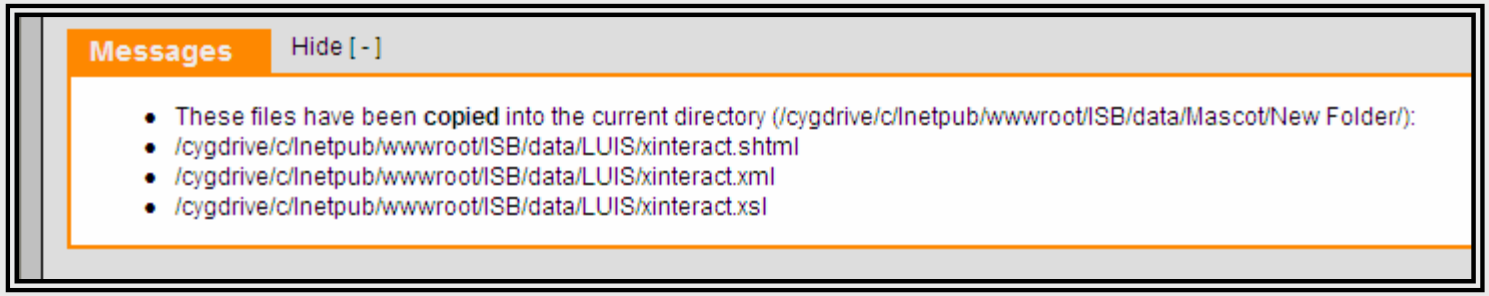


Quick Tour: File Paste

- Check Clipboard contents first:



- Edit, if necessary
- Navigate to desired directory
- Click here!



PETUNIA Show & Tell

DEMO:

- File Transfer of a MASCOT search results file from search server to Tools server using PETUNIA.

TUTORIAL:

- Follow along!

PETUNIA: some tips & URL

- Choose Files first, then options
- OK to navigate while commands run; keep an eye on the Command Status bar for updates:

- Previous command output available until next command is run.
- Open all results files using web browser
- Use section menus for quick navigation
- Got a suggestion? Let us know!

http://<HOST>/tpp-bin/tpp_gui.pl