

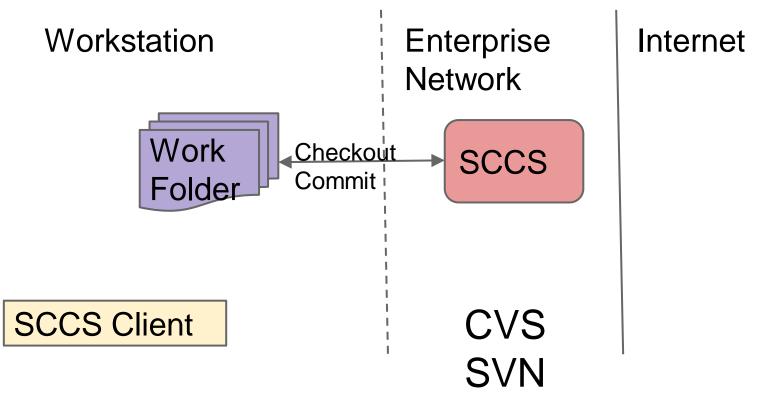
Got Git? Getting More Out of Your GitHub Repositories

Terry Brady, Georgetown University www.library.georgetown.edu/lit/code

SCCS

Source Code Control System

SCCS: Before Git



SCCS: Local Git

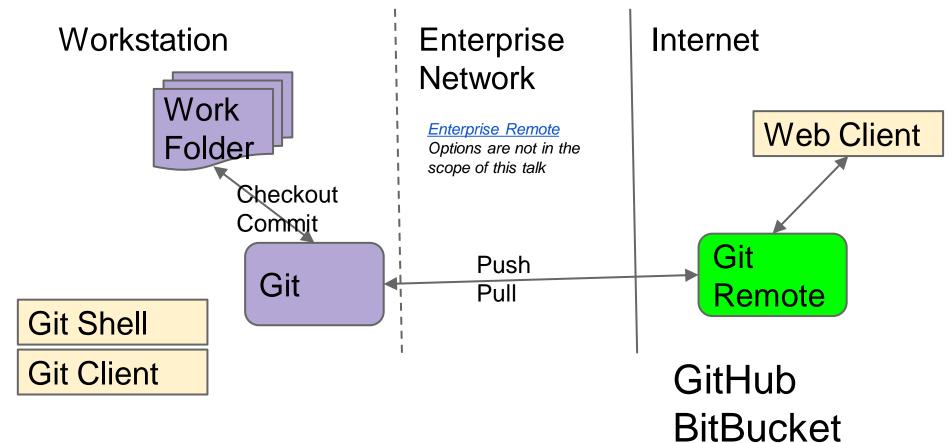
Workstation Work Folder Checkout Commit Git Git Shell

Enterprise Network

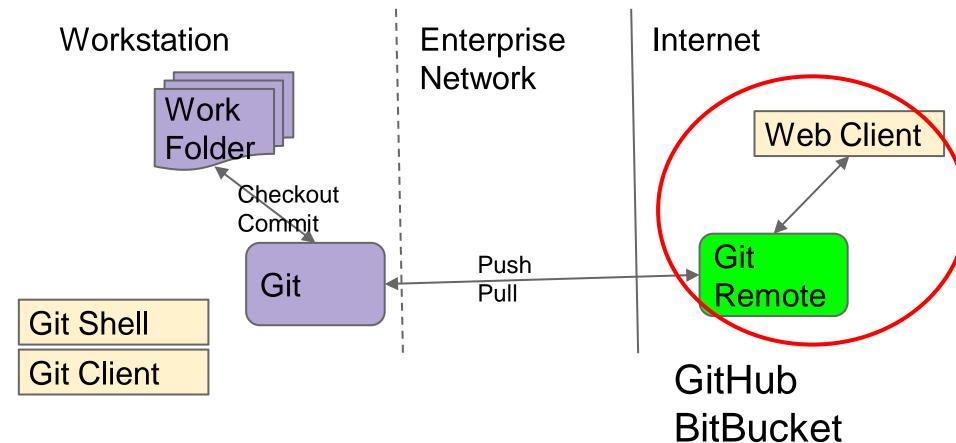
Internet

Git Client

SCCS: Local Git + Cloud Remote

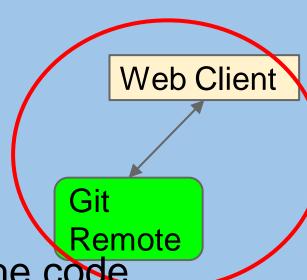


Focus of This Talk



Advantages of GitHub Web for Novice Users

- Easy to visualize Git concepts
 - No software to install
 - No command line
 - Embedded editor
- Meaningful URL's
- Rich online tools
- All online resources linked to the code.



Georgetown University Libraries Organization

github.com/Georgetown-University-Libraries

public + private repositories owners, viewers, contributors





File-Analyzer-Test-Data

Filters . Q. Find a repository.

Sample data files to illustrate the capabilities of the File Analyzer

Updated 7 hours ago

Marc-File-Analyzer

Extension of the File-Analyzer using Marc4j

Updated 4 days ago

Georgetown-University-Libraries-Code

Catalog of Existing Projects and Code Samples

Updated 4 days ago

File-Analyzer

Y torted from terrywbradylFile-Analyzer

File Analyzer and Metadata Harvester

Updated 5 days ago

#0 P0

Java #0 P1

#0 P0

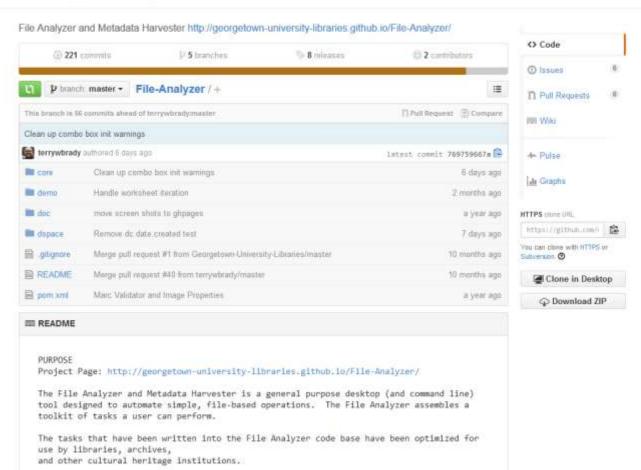
Java # 13 P7

Project Page

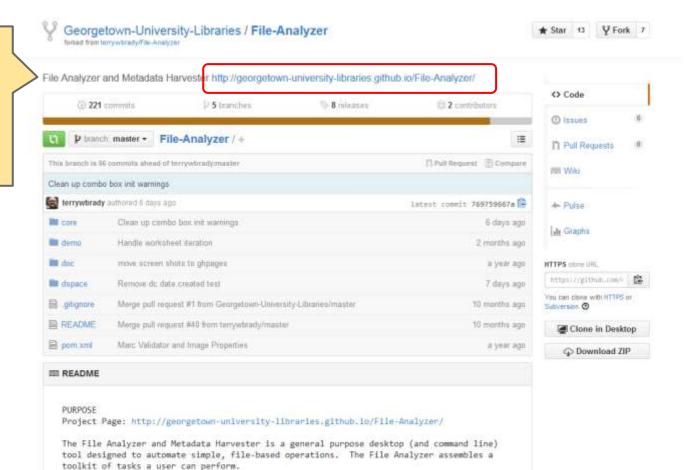
https://github.com/Georgetown-University-Libraries/File-Analyzer







Project Landing Page



The tasks that have been written into the File Analyzer code base have been optimized for

use by libraries, archives,

and other cultural heritage institutions.



File-analyzer

perform.

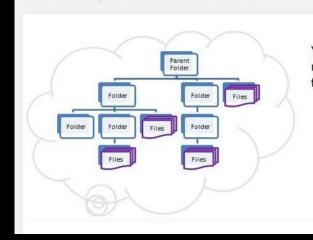
File Analyzer and Metadata Harvester



The tasks that have been written into the File Analyzer code base have been optimized for use by libraries, archives, and other cultural heritage institutions.

automate simple, file-based operations. The File Analyzer assembles a toolkit of tasks a user can

See the File Analyzer Wiki for detailed instructions.



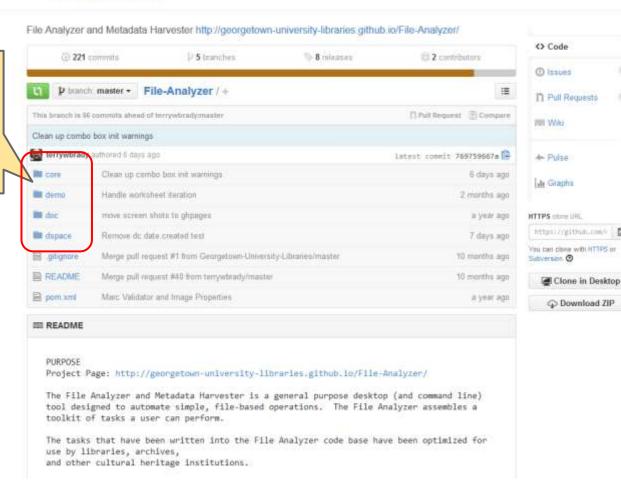
You have a collection of files and you need to do something with those files...

Project Home Page

- Visually compelling landing page
 - Sometimes you only get one click to tell the story
- Stored as a project branch: gh-pages
- Trackable by Google Analytics

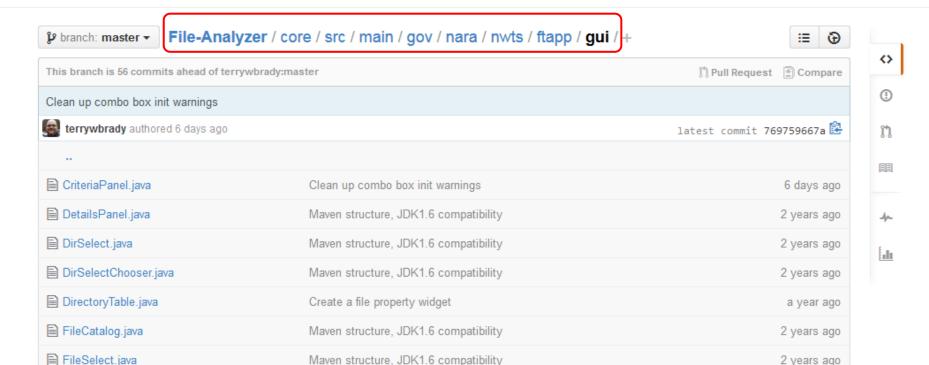
Navigating to Code

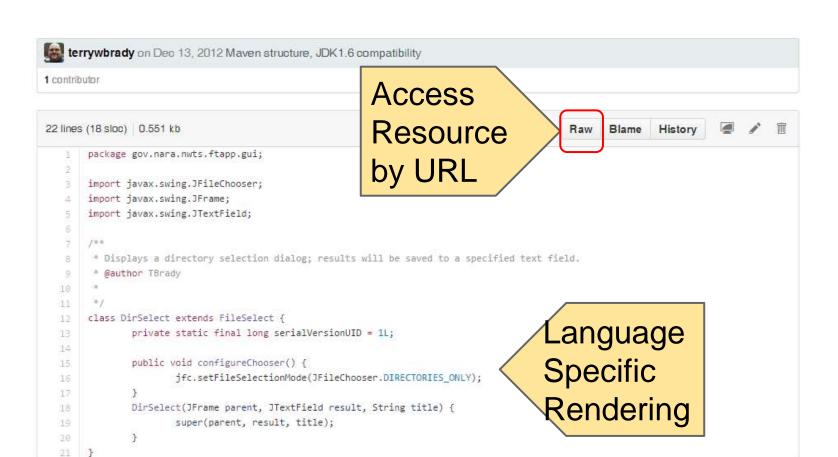
Browse Code Directories



★ Star 13

Fork







Code Navigation

- File-system like navigation within a project
- Every node has a meaningful URL
 - Even to a block of code!
- "Raw" Access by URL
 - Can run a simple html/css/js app from the code repository
 - Great for test data!

Code Editing



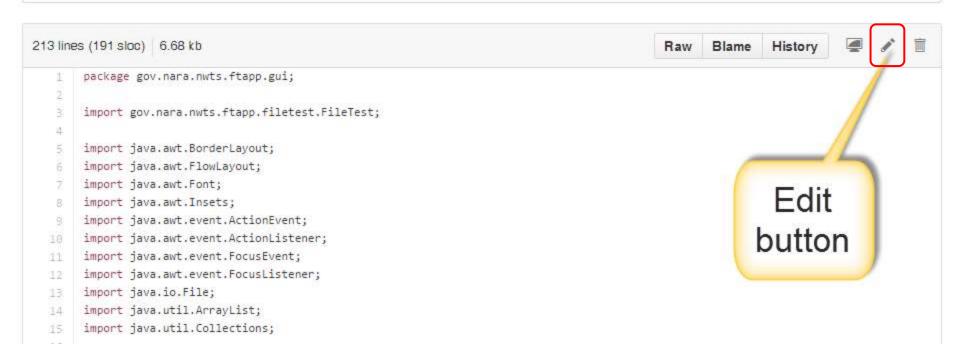
File-Analyzer / core / src / main / gov / nara / nwts / ftapp / gui / CriteriaPanel.java





terrywbrady 6 days ago Clean up combo box init warnings

1 contributor



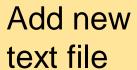
Inline Text Editor

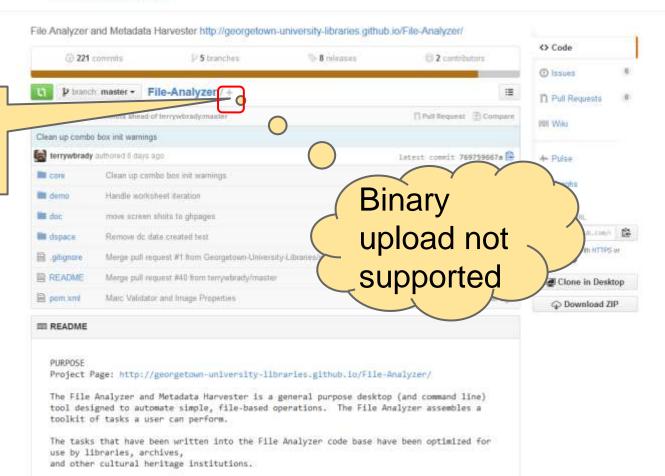
File-Analyzer / core / src / main / gov / nara / nwts / ftapp / gui / CriteriaPanel.iava or cancel Tabs 8 No wrap Edit file Preview changes package gov.nara.nwts.ftapp.gui; import gov.nara.nwts.ftapp.filetest.FileTest; Edit and commit files import java.awt.BorderLayout; with no need to install import java.awt.FlowLayout; import java.awt.Font; client software. import java.awt.Insets; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; 10 import java.awt.event.FocusEvent; 11 Example: Your team has a import java.awt.event.FocusListener; import java.io.File; 13 designer who only modifies import java.util.ArrayList; 14 CSS. A Simple solution! import java.util.Collections; 15



Sample FlexPaper Document Viewer for XMLUI

```
bookview-banner.html
                                                                                                         Raw
    <1--
1
        The contents of this file are subject to the license and copyright
        detailed in the LICENSE and NOTICE files at the root of the source
        tree and available online at
6
        http://www.dspace.org/license/
8
9
    -->
       <div id="close"><a href="javascript:window.close();">Close Book Viewer</a></div>
10
      <h2 id="bookview-message">The DSpace Book Viewer is being prepared. Please be patient while your document is 10
11
                                                                                                                   Raw Link
o bookview-banner.js
     * The contents of this file are subject to the license and copyright
     * detailed in the LICENSE and NOTICE files at the root of the source
     * tree and available online at
5
     * http://www.dspace.org/license/
                                                                                                 Language Aware Editor
     +1
    $(document).ready(function(){
           $("#bookview-banner").load("/static/flexpaper/bookview-banner.html");
9
10
    1);
```





Use Eclipse Default Variable for Repo		
terrywbrady authored on Dec 5, 2014		latest commit f2bb7705d1 🚉
src/main/edu/georgetown/library/extractSier	handle DAILY option	7 months ago
classpath	Use Eclipse Default Variable for Repo	2 months ago
gitignore	Use Eclipse Default Variable for Repo	2 months ago
project .	Update package name	7 months ago
■ README.md	Update README.md	7 months ago
pom.xml	refactor	7 months ago

III README.md

This code provides a sample implementation of a BIB and ITEM extract using the Sierra REST API.

This code has been shared for illustrative purposes. Some of this code contains institution-specific logic.

Wiki

README Content

Purpose

The Georgetown University Libraries provide quarterly, monthly, and daily extracts our catal the Washington Regional Library Consortium (WRLC). Prior to the creation of this program, the were generated by our Systems Librarian using Sierra client functionality. This program are sentenced by the creation of this program.

https://guides.github.com/features/mastering-markdown/

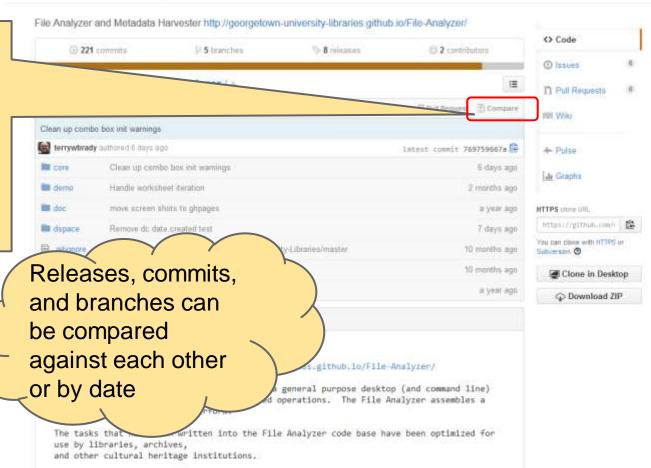
Markdown format permitted

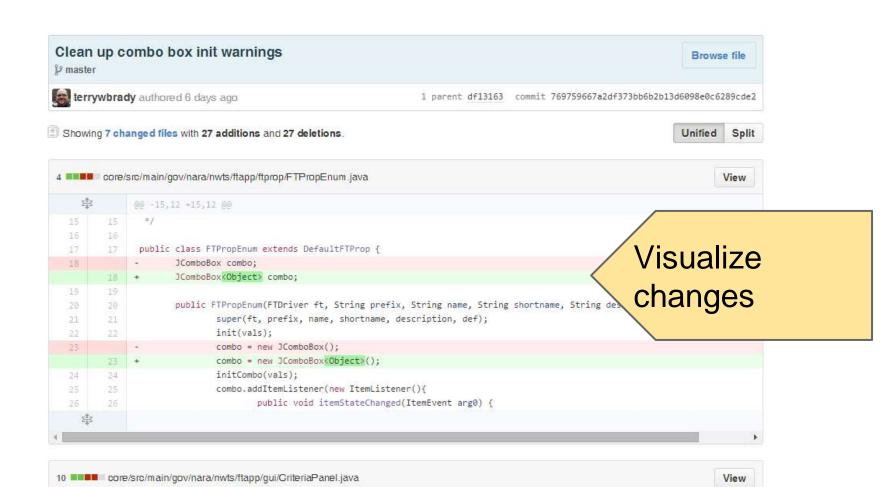
Code Editing with GitHub Web

- Language-specific formatting
- Quick editing using only the browser
 - Support non-developer contributors!
 - 2015 Goal: extend code contributors on our projects
- Markdown is a powerful wiki syntax for documentation

Change History / Pull Request

Compare code by branch, by release, or by date



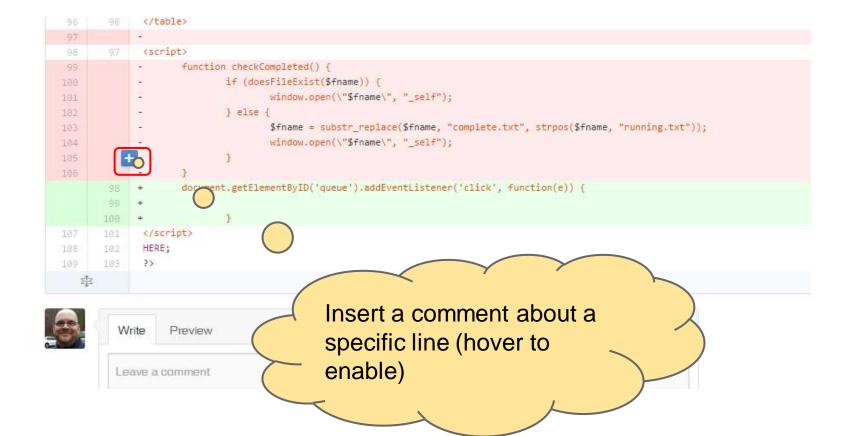


00 40 0 440 0 00

```
(script)
       function checkCompleted() {
               if (doesFileExist($fname)) {
                       window.open(\"$fname\", "_self");
              } else {
                       $fname = substr_replace($fname, "complete.txt", strpos($fname, "running.txt"));
                       window.open(\"$fname\", " self");
       document.getElementByID('queue').addEventListener('click', function(e)) {
</script>
HERE;
3>
```

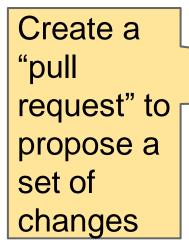


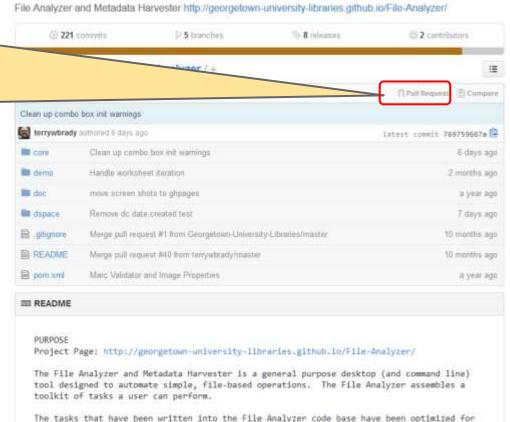




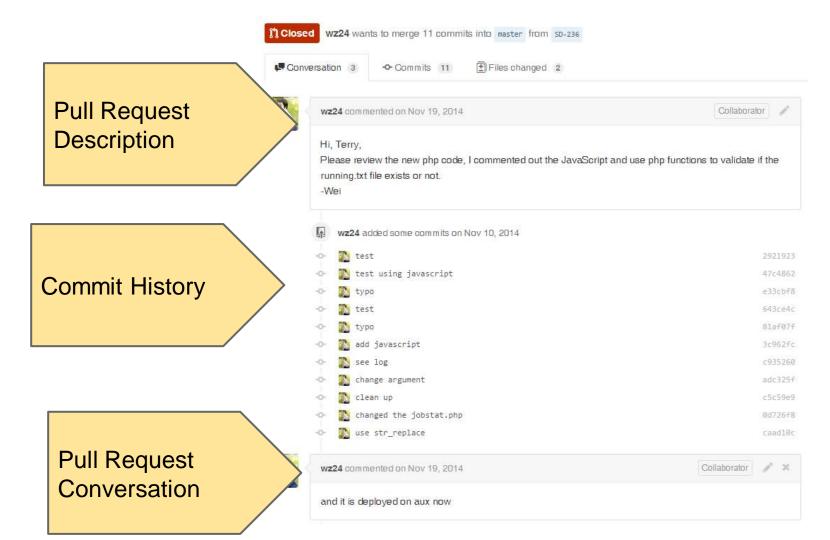
use by libraries, archives,

and other cultural heritage institutions.





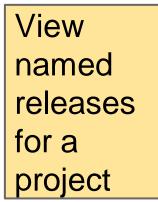


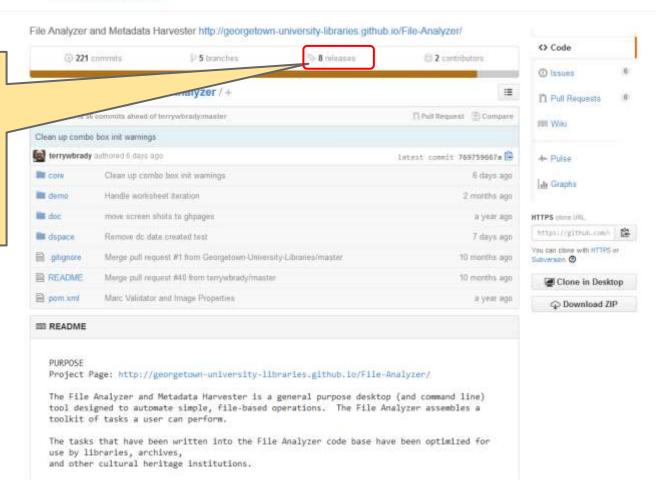


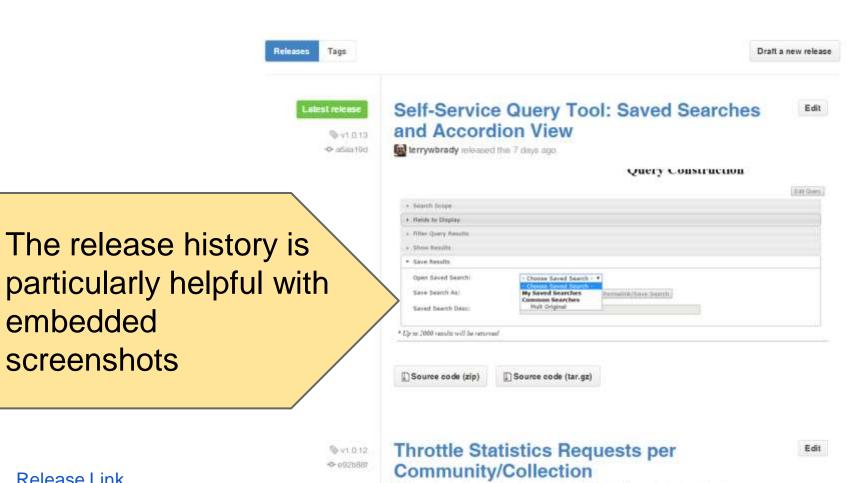
Change History / Pull Request

- Visualization of changes
 - Only a browser is needed
 - Powerful compare options by URL
 - By Date: <u>.../compare/master@{1month}</u>
 - By Release: .../compare/v2.0.2...v2.0.5
- Conversation around a pull request/commit
 - Great tool for mentoring staff on changes
 - Conversation captured right with the code
 - Rich Markup

Release Tracking



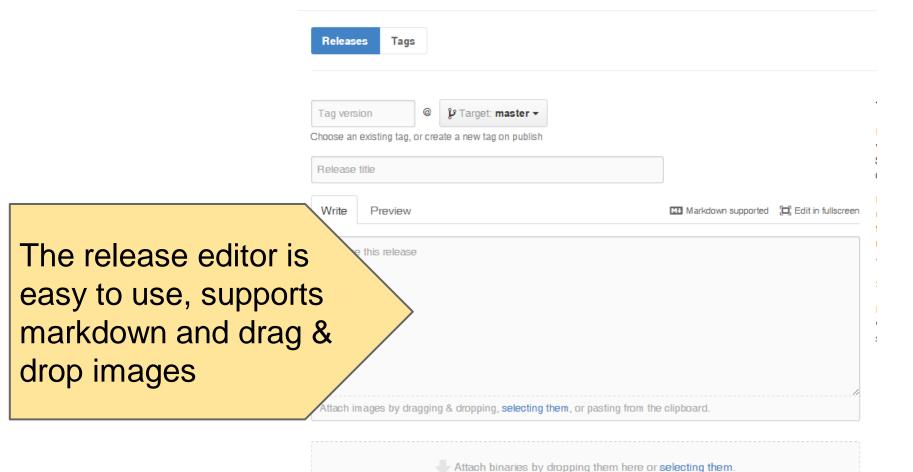




Release Link

embedded

screenshots



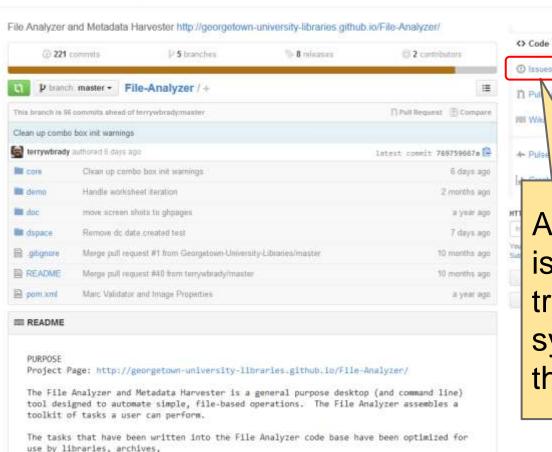
Release Tracking

- Document every release to production
- Rich documentation makes it easy to recall the contents of a release
 - Very useful for annual review accomplishments
 - Can function like a blog/project portfolio
- GitHub will automatically email release notes to defined team members

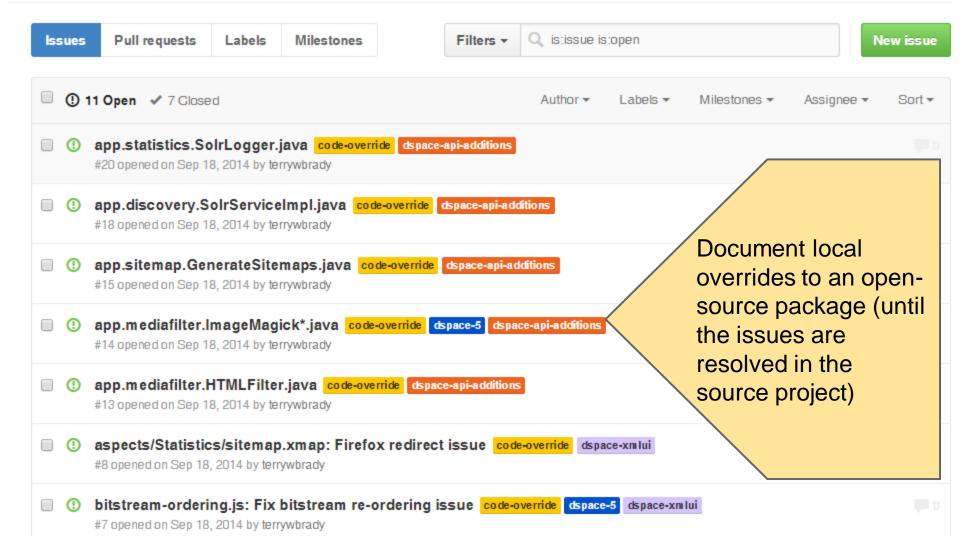
Rich Documentation

and other cultural heritage institutions.



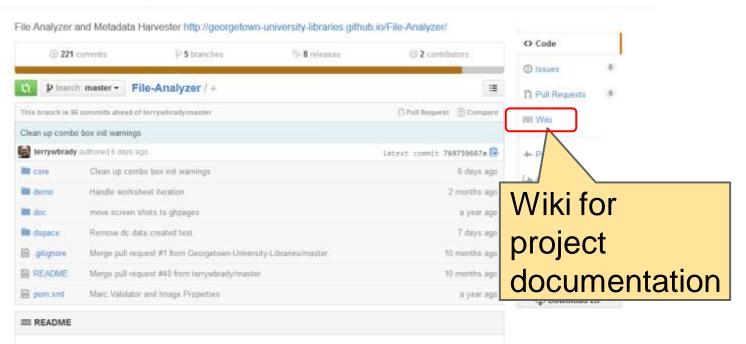


① Issues In Pu **995 Wiki** 4- Pulse A simple issue tracking system for the project









PURPOSE

Project Page: http://georgetown-university-llbraries.github.io/File-Analyzer/

The File Analyzer and Metadata Harvester is a general purpose desktop (and command line) tool designed to automate simple, file-based operations. The File Analyzer assembles a toolkit of tasks a user can perform.

The tasks that have been written into the File Analyzer code base have been optimized for use by libraries, archives, and other cultural heritage institutions.

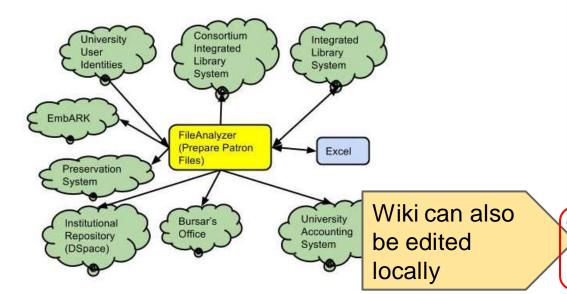
File Analyzer Use Cases at Georgetown University

Edit New Page

Terry Brady edited this page 4 days ago - 2 revisions



The Georgetown University Library has developed File Analyzer tasks for nearly every department within the library. Where practical, code has been made available on GitHub.



Pages 45

- Home
- File Analyzer Component Packages
- Installation instructions
- · File Analyzer Stories
- File Analyzer Use Gases at Georgetown University
- Latest Features
- User Interface Overview
- · Command Line Interface
- · Batch Processing
- Coding new File Test Rules and new File Import Rules
- File-Analyzer-Training-Code4Lib-2015

Clone this wiki locally

https://github.com/Georgetown



Clone in Desktop

Let's talk...

- Check out our repository, let me know what you think
- Likely open positions
 - Developer/Systems Admin
 - Systems Librarian
- Others in Seattle?



More Information?

terry.brady@georgetown.edu

https://github.com/terrywbrady

https://github.com/Georgetown-University-Libraries

Other Tools



Referring sites		
Site	Views	Unique visitors
github.com	32	2
🗶 staffwiki.library.georgetown.edu	31	1
• georgetown-university-libraries.gith	16	3
wiki.code4lib.org	14	3
★ code4lib.org	4	4

Popular content		
Content	Views	Unique visitors
File Analyzer Uses Georgetown Uni	115	3
File Analyzer Use Cases at Georget	67	2
Marc File Analyzer Package Content	54	2
DSpace Institutional Repository Inge	49	5
Home	43	9
Home	43	9

OAuth Tokens

- Grant a build process access to private repositories
 - https://help.github.com/articles/git-automation-withoauth-tokens/