Top 10 Tools for OpenEdge

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Overview

Category	Gilles	Dustin	Mike
OpenEdge Tools		REST-Out to PASOE Management	PDSOE
Eclipse / PDSOE Plugins	SonarSource Eclipse Plugin, wireframesketcher	Subclipse Adobe Source Code Pro	OEDT, Mylyn
Logfile viewer	Logviewer (Eclipse Plugin)	Notepad++	Baretailpro
Text Editors	vim	Notepad++	Sublime Text
Shell Extensions	Conemu, Powerline (bash and vi improvement)		
Web Development		Postman JSDO Catalog Viewer and Tester	WebStorm
Diff Tools	Beyond Compare	Beyond Compare	P4Merge
SCM	Github	SVN	Perforce
File Management			Total Commander + .pl Extension
OpenEdge Specific Open Source	smtpmail.p, DataDigger		Proparse
Build Automation, Test	Groovy, Docker	PCT and ANT, Jmeter	
Documentation Tools	Greenshot + licecap		OneNote

OEABL REST-Out

- Technically, the OEHttpClient library
- Basis for the WebHandler features in PAS
- A new "hidden gem" in the ABL
- Useful for scripting actions against OE Management
- Can query, trim, alter PAS instances
- https://documentation.progress.com/output/oehttpclient/



What a wonderful documentation Website

©
Built with PCT and
SmartDox

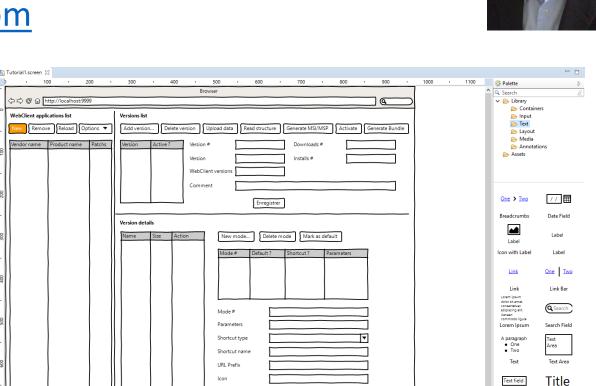
Progress Developer Studio



- If you're still using Procedure Editor or AppBuilder it's time to make the switch
- If you tried it in an earlier version, give it a second change. It has grown up ...
- Lots of productivity features for writing, building, testing ABL code
- More details in the "Progress Developer Studio extreme" talk this afternoon!
- Project based IDE
- Extensible using Plugins

WireframeSketcher (Eclipse plug-in)

- Available as an Eclipse plug-in or a standalone application http://www.wireframesketcher.com
- Approx. 100\$
- XML file format (easy versioning)
- JPG/PNG/PDF export





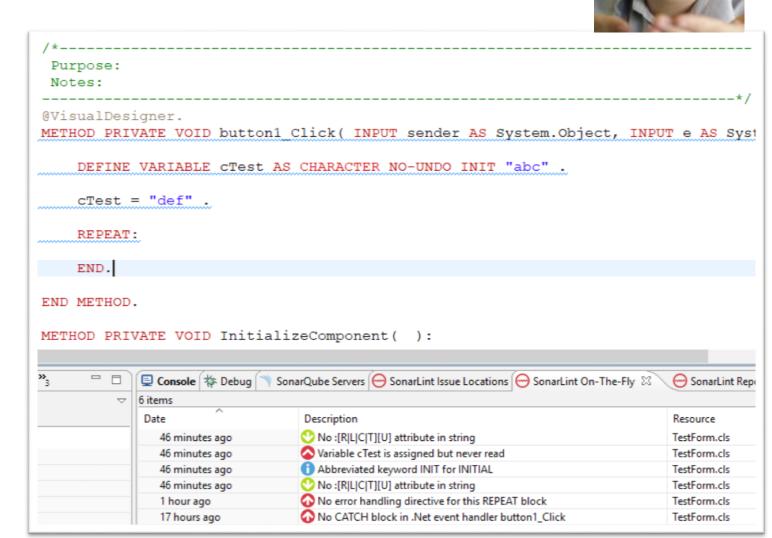
Tooltip

SonarLint (Eclipse plug-in)

On-the-fly code quality analysis for OpenEdge and other

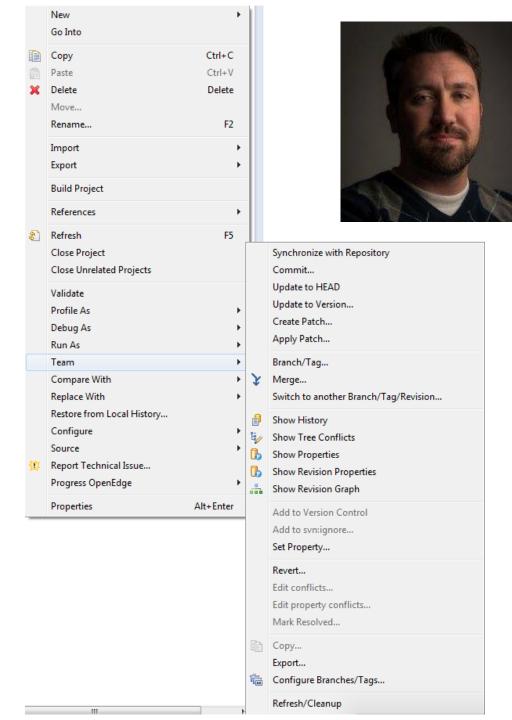
languages

- Light blue underline
- Description available as a separate view
- No excuses anymore!



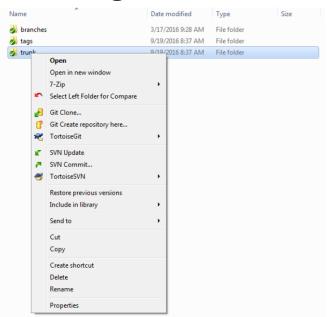
Subclipse

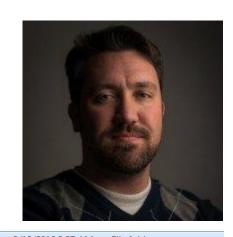
- SVN (Subversion) client for Eclipse
 - Open-Source Version Control System
- Adds a "Team" context menu

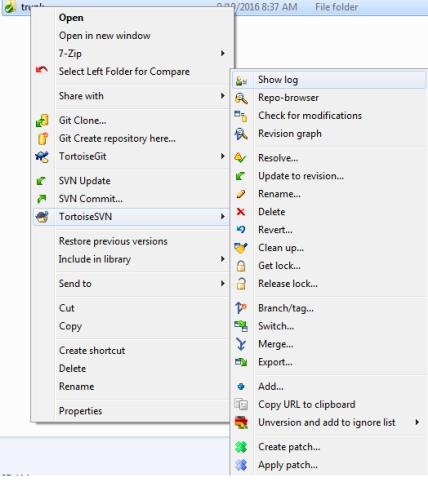


TortoiseSVN

- Windows SVN client with Explorer integration
- Adds a right-click context menu for folders
- Direct access to Update/Commit options
- Deeper menu options provide advanced features like branching







Adobe Source Code Pro

- Open Source font for coders!
- Reduces error from similar characters
- Example: 0 and 0, 1 and 1
- Use in any editor that supports custom fonts
- https://github.com/adobe-fonts/source-code-pro

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789



OEDT

- Extension for Progress Developer Studio for OpenEdge
- Commercial Eclipse Plugin developed by H&H (a German Progress VAR)
- https://www.hh-berlin.de/oedt/
- Currently still in beta (expected until end of October 2016)
- Improved non-blocking builder
 - Dependency builder
 - Build Error Files
 - Preprocess/Debug Listing View
- Editor with *REAL* code completion
 - Fast
 - Method arguments

```
DEFINE VARIABLE cEntry AS CHARACTER NO-UNDO INIT "p,w,cls,i".

DEFINE VARIABLE iEntry AS INTEGER NO-UNDO INIT 1.

DEFINE VARIABLE cDelim AS CHARACTER NO-UNDO INIT ",".

DEFINE VARIABLE ENTRY(integer, character, character): character

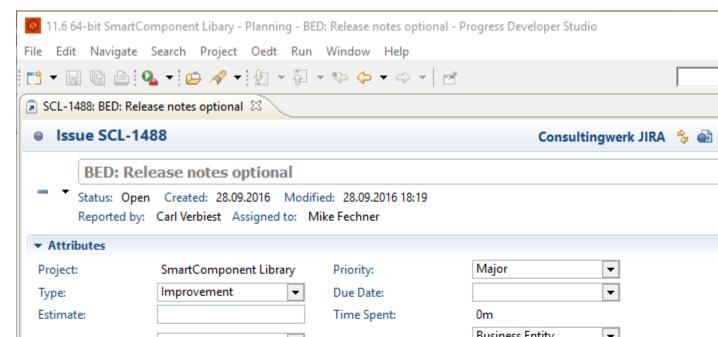
cResult = ENTRY(element, list, delimiter)

iEntry: integer

hhberlin.buildsystem.BuildPlugin
```

Mylyn

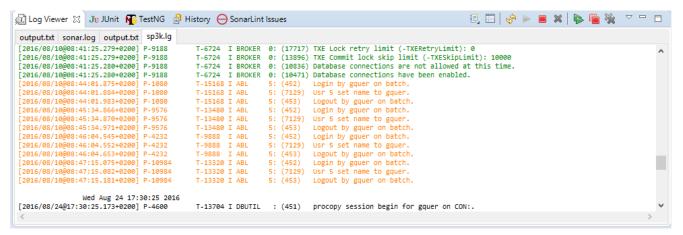
- Eclipse Foundation project
- Eclipse plugin with highest number of downloads
- Integrates within Eclipse and with each other
 - Task Repositories (issue tracking systems, e.g. JIRA, Bugzilla)
 - SCM Tools (Perforce, Git, SVN)
 - Build Monitoring (Jenkins)
 - Time Tracking
- Task Focussed UI

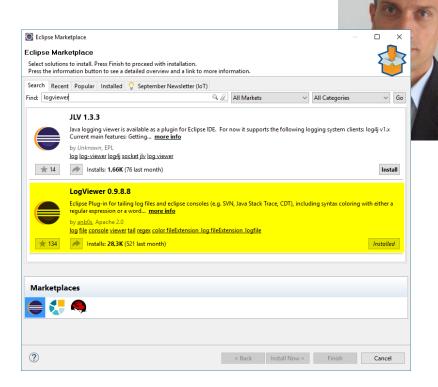


LogViewer (Eclipse plug-in)

Available from the Marketplace

- Separate view in your workspace
- Can monitor as many files as you want
- Configurable syntax highlighting





BaretailPro

• Portable application (no installation required, copy to remote

Desktop through RDP session)

- Fast
- Fast search on existing entries and search of [16/05/06@11]
- Can remember last recently opened files
- Color Coding Log entries ("ERROR", "** ")
- PRO Version 35,- US \$ (in bundle with Grep 50,- US\$)
- Free version available

```
mrs2-pas.agent.log (24,3 MB) - BareTailPro
   Edit View Preferences Help
 [16/05/06@11:32:01.438+0200] P-017732 T-016524 1 AS-14 ServiceLoa
 [16/05/06@11:32:05.112+0200] P-017732 T-017876 2 AS-ResourceMgr CONN
```

Notepad++

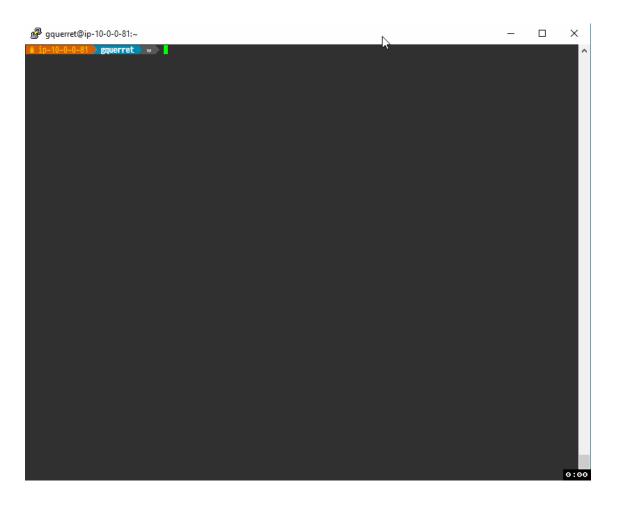
- File editor, WAAAAY better than Windows defaults
- Free (as in beer)!
- Can edit configuration files without corrupting them ©
- Latest version allows you to "tail" a log file



Update to 7.3.3 to fix CIA hacking issues!
 https://notepad-plus-plus.org/news/notepad-7.3.3-fix-cia-hacking-issue.html

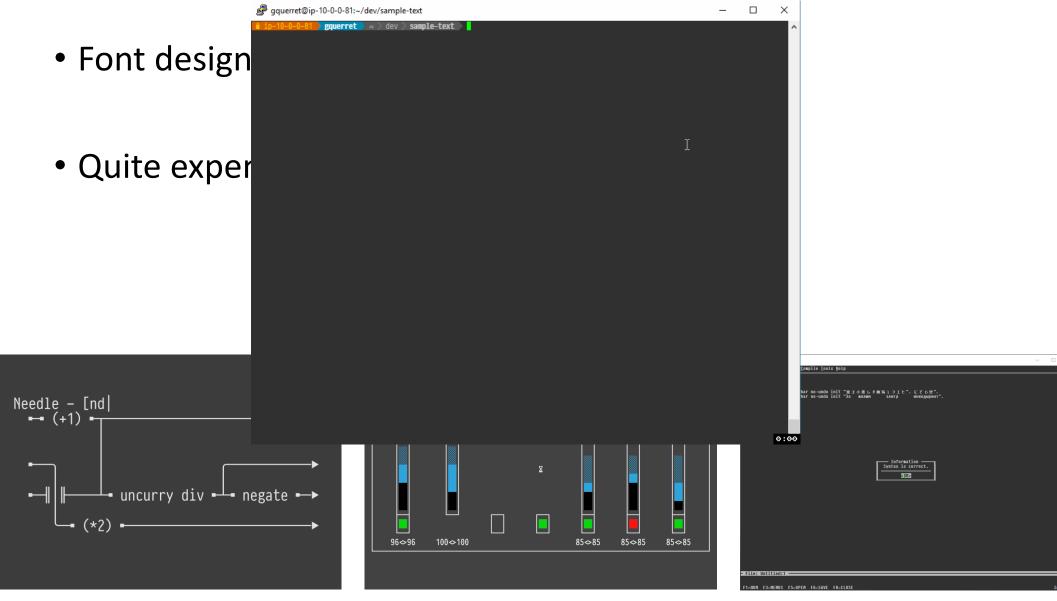


ViM





ViM + PragmataPro





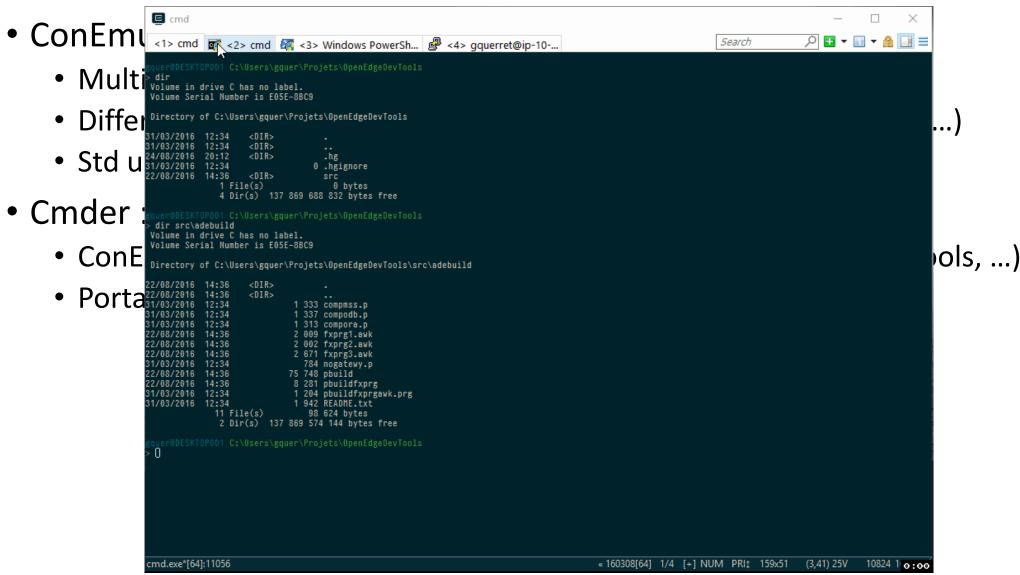
Sublime Text



- Fast
- Open Single File, open project folder
- Simple but effective Window Management (tabs)
- Extensive Configuration Options (JSON Files)
- Easy to copy config from one PC to another
- ABL syntax highlighters available: http://gabsoftware.github.io/progress-abl-4gl-sublime-text/
- Collapsible editing of JSON Files
- Can store unsaved files between sessions
- Very good all purpose editor (my F4 in Total Commander)

```
C:\Users\mikef\Downloads\ClassHelper.cls - Sublime Text
File Edit Selection Find View Goto Tools Project Preferences Help
      Customer2.json ×
                       view-factory.js — KendoUiBuilder\...\Customer3-ccustomer ×
                                                                      bottomSection.html •
                                                                                                        CustomerBusinessEntity.json ×
                                                                                                                                   Customer2.json ×
                                                                                                                                                    Customer.json ×
                                                                                                                                                                     CustomerData2Provider.json >
                                                                      OUTPUT TABLE ttl
                                                                                                                             "sortable": false,
                                                                                                  235 ▼
                                                                                                                             "customSections": {
604 ▼
              IF lExtendedLogging THEN DO:
                                                                                                                                  "top": "topSection.html",
605 ▼
                   LogManager: WriteMessage (SUBSTITUTE ("Found &1 .r files in &2":
                                                                                                                                  "middle": "middleSection.html",
                                                                                                                                  "bottom": "bottomSection.html"
                                                          BufferHelper: NumRecords (BUI)
                                                          cRootDir),
                                                                                                                             },
                                              "ClassHelperExt":U) .
              END.
                                                                                                                                  "onRowSelect": "onRowSelect"
611 ▼
               fileLoop: FOR EACH ttFileNames ON ERROR UNDO, THROW:
                                                                                                                     "readonly": false
                   ASSIGN cFile = ttFileNames.FileName .
                                                                                                                },
                                                                                                  247 ▼
                   RCODE-INFORMATION:FILE-NAME = cFile .
                                                                                                                     "name": "sep",
                                                                                                                     "type": "view",
617▼
                   IF RCODE-INFORMATION:IS-CLASS THEN DO:
                                                                                                                     "schemaVersion": "1.0",
619 ▼
                       ASSIGN cClassName = SUBSTRING (cFile, LENGTH (cRootDir) + 2)
                                                                                                                     "viewType": "data-grid-separate-form",
                              cClassName = REPLACE (SUBSTRING (cClassName, 1, LENG
                                                                                                                     "extension": "view-factory.js",
                              cClassName = REPLACE (SUBSTRING (cClassName, 1, LENG
                                                                                                  253 ▼
                                                                                                                     "events": {
                              NO-ERROR .
                                                                                                                         "initEventHandler": "onInit",
                                                                                                                         "showEventHandler": "onShow",
624 ▼
                       IF pcPrefix > "":U THEN
625 ▼
                           ASSIGN cClassName = SUBSTITUTE ("&1.&2":U,
                                                                                                  258 ▼
                                                                                                                     "children":
                                                             pcPrefix,
                                                             cClassName) .
                                                                                                  259 ▼
                                                                                                                             "name": "ctl1",
                       IF lExtendedLogging THEN
                                                                                                                             "type": "data-grid-separate-form",
629 ▼
                                                                                                                             "schemaVersion": "1.0",
                           LogManager:WriteMessage (SUBSTITUTE ("Processing class:
                                                                  cClassName),
                                                                                                                             "title": "<Title>",
                                                      "ClassHelperExt":U) .
                                                                                                                             "extensionFolderName": "Customer2-sep",
                                                                                                                             "dataProvider": "",
                                                                                                                             "dataSource": "",
                                                                                                                             "columns": null,
                       IF pcBaseType = "Consultingwerk.OERA.BusinessEntity":U AND
636 ▼
                           cClassName BEGINS "Consultingwerk.":U AND NOT cClassName
                                                                                                                             "rowTemplateFunction": "",
                           NEXT.
                                                                                                                             "rowTemplateId": "",
                                                                                                                             "filterable": false,
                       ASSIGN lDotNetType = FileHelper:CanFindTextInBinaryFile ("5"
                                                                                                                             "groupable": false,
```

A better Windows prompt





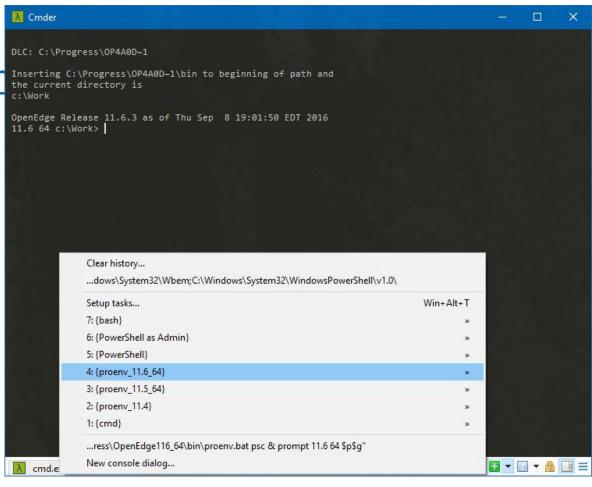
cmder

- Carl Verbiest: How to proenv using cmder
- https://community.progress.com/com
 Inserting C:\Progress\OP4A0D~1\bin to beginning of path and the current directory is c:\Work

 OpenEdge Release 11.6.3 as of Thu Sep 8 19:01:50 EDT 2016

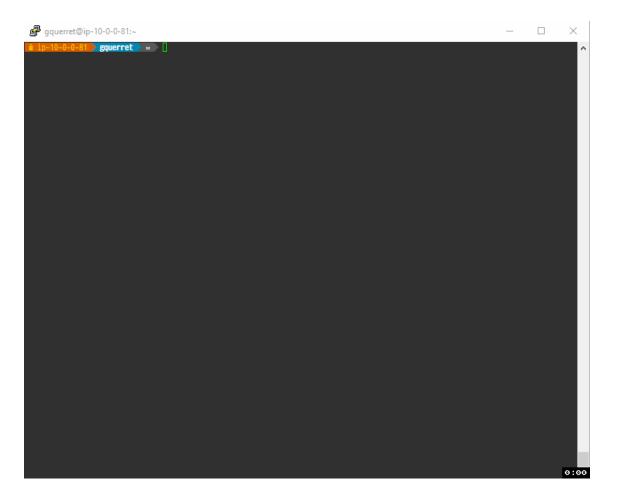
 11.6 64 c:\Work>





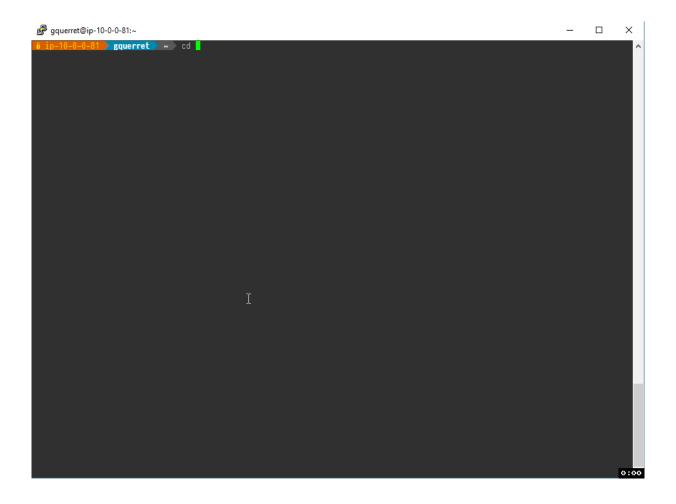
A better Unix prompt - Powerline

• https://github.com/powerline/powerline





Powerline





Postman

- https://www.getpostman.com/
- Chrome App and Mac App
- Can test API's



REVIEWS

CURRENT RUN

Q. Postman Echo

JSONBlab Care API

Philips Hue Bulbs

Headers

Utilities

Auth: Others

Request Methods

Data File Choose Files No fi., hosen

SUPPORT

RESULTS

62 passed 1 failed

PASS response code is 401 1 0

PASS response code is 200 1 | 0

PASS response code is 200 1 | 0

PASS Body contains authenticated 1 | 0

PASS body contains authenticated 1 | 0

0 0 0 0 0

Automate testing with Collection Runner

RELATED

401 Unauthorized

200 OK

200 OK

0

0

OVERVIEW

COLLECTION RUNNER

Previous Runs

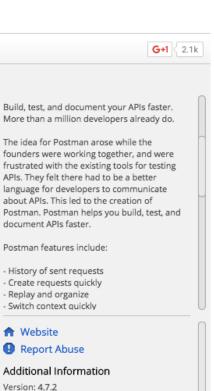
JSONBlob Core API

JSONBlob Core API

JSONBlob Core API

Postman Echo





Updated: September 22, 2016

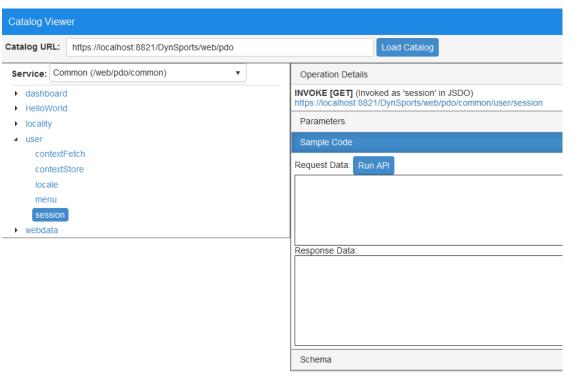
Size: 5.43MiB

+ ADD TO CHROME

Catalog Viewer

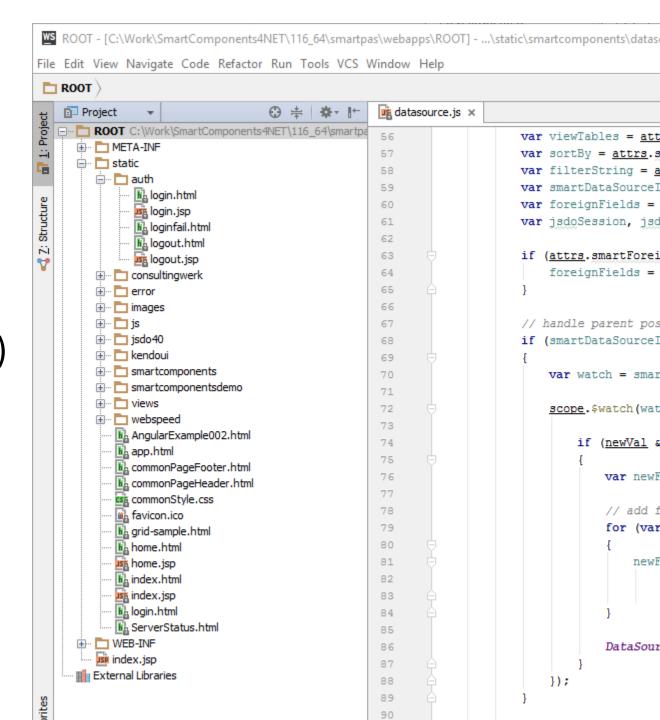
- Custom application from Progress Services (myself, actually)
- Reads the Data Object Service Catalog as used by the JSDO
- https://github.com/DustinGrau-PSC/CatalogViewer
- Standalone HTML file (Kendo+JQuery)
- Can view catalog structure
- Lists all Services + Resources
- Also, Operations + Schema
- Execute API's (like Postman)





Jetbrains WebStorm

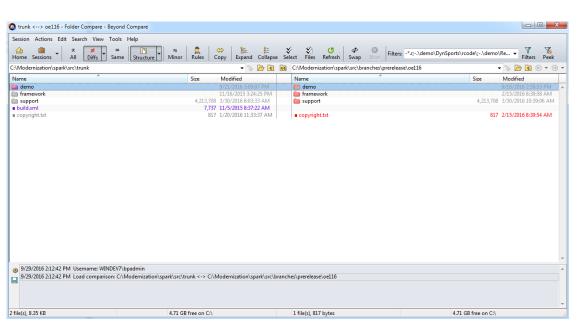
- JavaScript and html
 IDE
- Smart Editor (code completion by assumption)



Beyond Compare

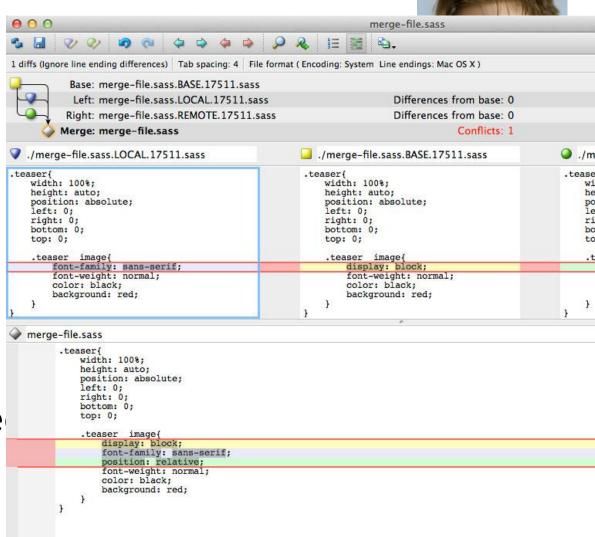
- File comparison/merging tool
- Cross-platform: Windows, Mac, Linux
- Perform rules-based, binary, or CRC comparisons
- Can exclude/filter files by name or type
- Save and organize comparisons for later
- Handles character and binary files
- Will manage very large directories





P4Merge

- File diff and Merge
- 3-way merge: Two versions of a file, common predecessor, merged version
- Merge utility of Perforce SCM
- Can be used for Git Merge (SourceTre
 - THE way to survive Git Merge



Git & GitHub / BitBucket server

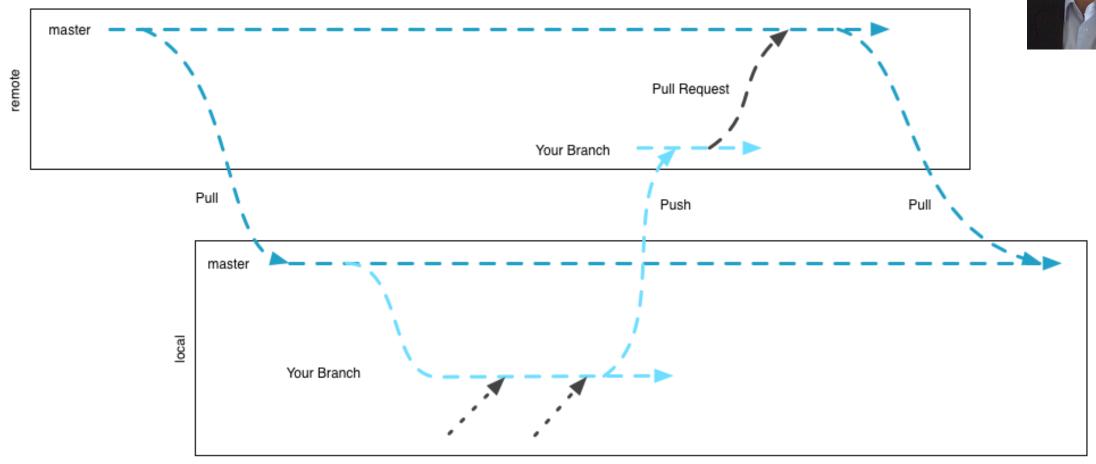
- Like it or not, Git has won the battle in OSS code repositories
 - R.I.P Mercurial, I'll regret you



- Steep learning curve
 - Any developer should take one or two days to really understand how Git works
 - Otherwise, your life will be miserable...
- GitHub and BitBucket server offer services on top of Git

GitHub pull requests





SVN



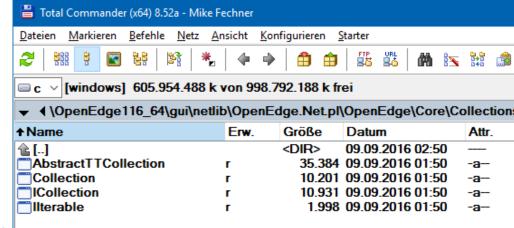
Perforce

- Commercial SCM Tool, free versions for smaller tools
- Hosted offering available
- Centralized SCM with Cache, Proxy, Git Integration
- Very, very strong in branching and merging
- Remembers previous conflict resolution
- Branching on code lines, within a code line, within a single file
- Easily maintain large code lines edited by 3rd parties
- Command line, GUI client, Eclipse Plugin, VS-Plugin

Total Commander

- (Windows Commander)
- Everybody needs a Norton Commander Clone
- 2 pane managment
- Local Files
- Network Files
- ZIP Files
- Extension from .PL Files:

http://progress-tools.x10.mx/plplugin.html



Free Framework / Data digger

• smtpmail.p

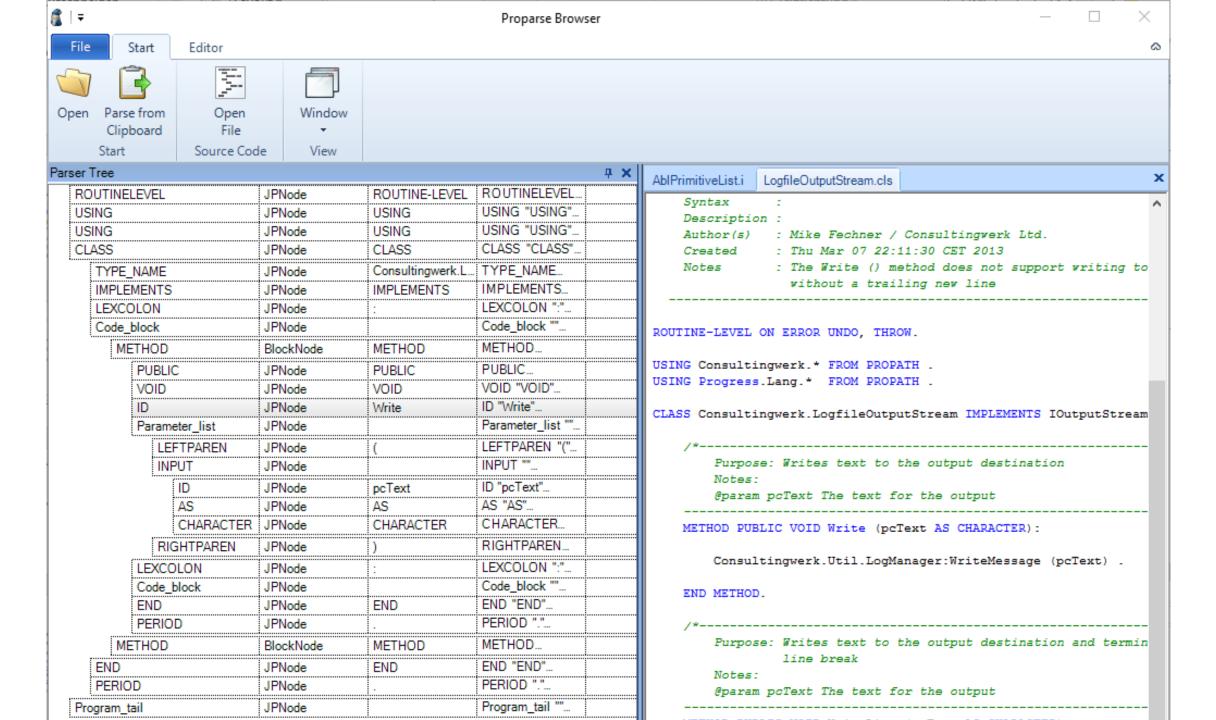




Proparse

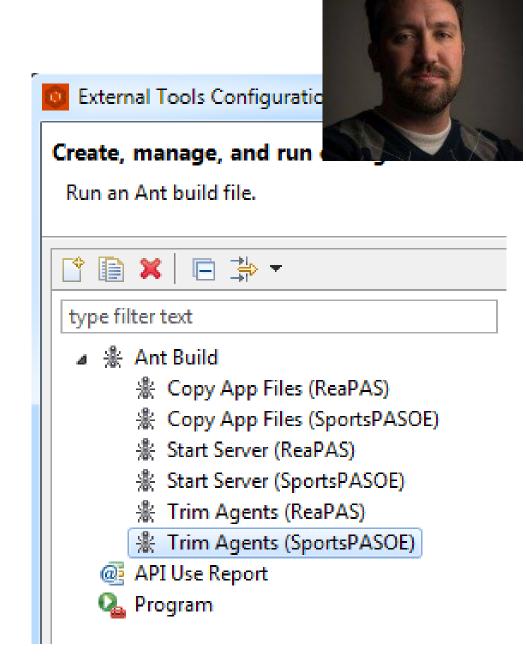


- ABL Syntax Parser
- Foundation for automated code QA and refactoring
- Java based, embedded into .NET, accessible on Progress GUI
- Different forks available
 - OEHive: https://github.com/oehive/proparse (original author)
 - Consultingwerk: https://github.com/consultingwerk/proparse
 - Riverside: https://github.com/Riverside-Software/proparse (for SonarSource)
- Actively maintained (again) should support 11.6 syntax



ANT and PCT

- Eclipse can execute ANT tasks!
- Ant Build in External Tools Configuration
- Where there's ANT, there's PCT



Groovy

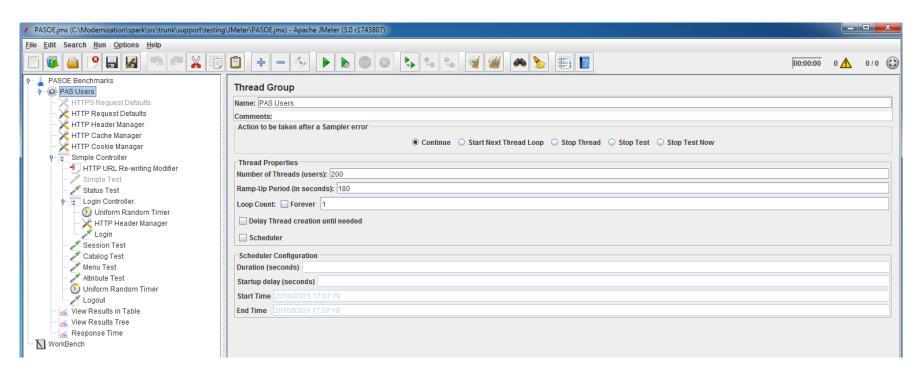
- Java scripting language
 - Absolutely not related to JavaScript!
 - A scripting language converted on the fly to Java code
 - Entire Java API is available
 - Ant is available
 - So is PCT!

```
def ant = new AntBuilder()
ant.taskdef(name: 'PCTRun', classname: 'com.phenix.pct.PCTRun')
ant.PCTRun (procedure: 'foo/bar/test.p', dlcHome: env.dlc) {
    ['db1', 'db2', 'db3'].each    DbConnection(dbname: it, dbDir: 'db', singleUser: true) }
}
```



JMeter

- Open Source java load test and performance measuring tool
- http://jmeter.apache.org/
- Can simulate user load
- Scriptable actions
- Report output
- Log requests
- Log errors
- View metrics





Greenshot / LICEcap

- All my screenshot done with Greenshot
 - http://www.getgreenshot.org

- Animated screenshots with LICEcap
 - http://www.cockos.com/licecap



OneNote

- Microsoft's Note Taking application (MS version of Evernote)
- Clients for Windows, Mac, Mobile Devices and Web Browser
- Share Notebooks with Team-Members
- Simple and effective Team-Wiki
- Synchronization for Offline Usage
- Simultaneous editing by multiple users

And what are the audience favorites?