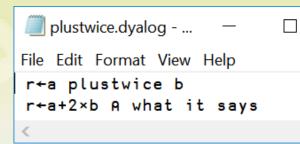


Before I Start...

- 1. How many people are already working with (or towards) storing APL Source in Text Files?
- 2. Are you familiar with the] load and] save user commands?
- 3. How do you feel about GitHub?
 - a) Love GitHub ©
 - b) Loathe GitHub!
 - What is GitHub?





APL Source Code – Historically

- Originally in the Workspace
 - Complete application code and data
 - in one binary file, very convenient
 - (but versioning a complete nightmare)
- Next, homegrown systems based on APL Component Files
 - Many of them very good at versioning / sharing
- Then, Relational Data Bases (Oracle, flipdb)

And Now...

(Unicode) Text Files!

```
VR+A FOO B
[1] →L2B×1A>B
   ... et cetera
   ad nauseam ..
[4] 亚2亚:
```



History of Text Support in Dyalog APL

- Dyalog.NET compiled ASP.NET source files
- SALT (Simple APL Library Toolkit) was introduced in version 12.x of Dyalog APL:

```
]load filename

[]SE.SALT.Load 'filename'
```

Version 15.0 added support to the interpreter:

- The requirement for SALT to be backwards compatible puts constraints on use of ΠFIX
- Hopefully SALT will use ☐FIX in v17.0 and the old code can fade away





Usage of Text Source in Dyalog APL

- First just Morten and Dan (+ASP.NET samples)
- Gradually, all Tools Group work
 - Hopefully, the QA dept will soon follow
- Backed first by SubVersion, now Git/GitHub
 - DFS, MiServer, vecdb
 - Today, 25 projects including new utility libraries
- Today, major users of Dyalog APL are looking at adopting Git and other SCM systems
 - It is about to become "mainstream"
 - Time for everyone to learn about it!

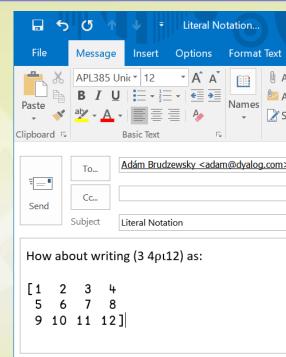


This means you!

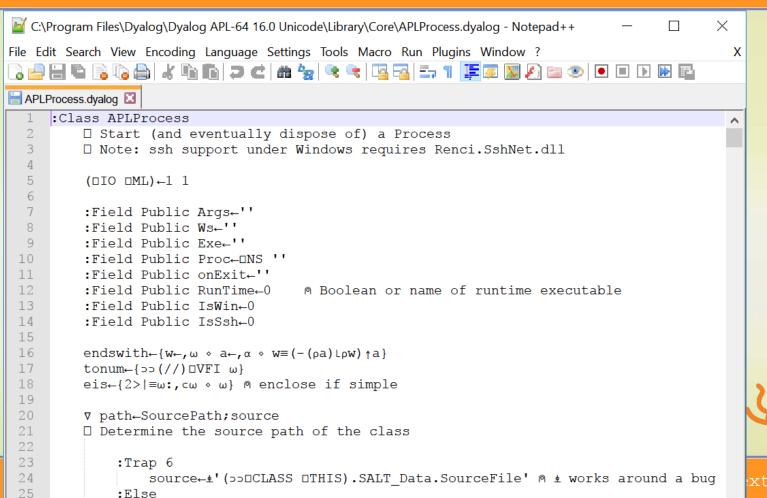


Benefits of Text Source

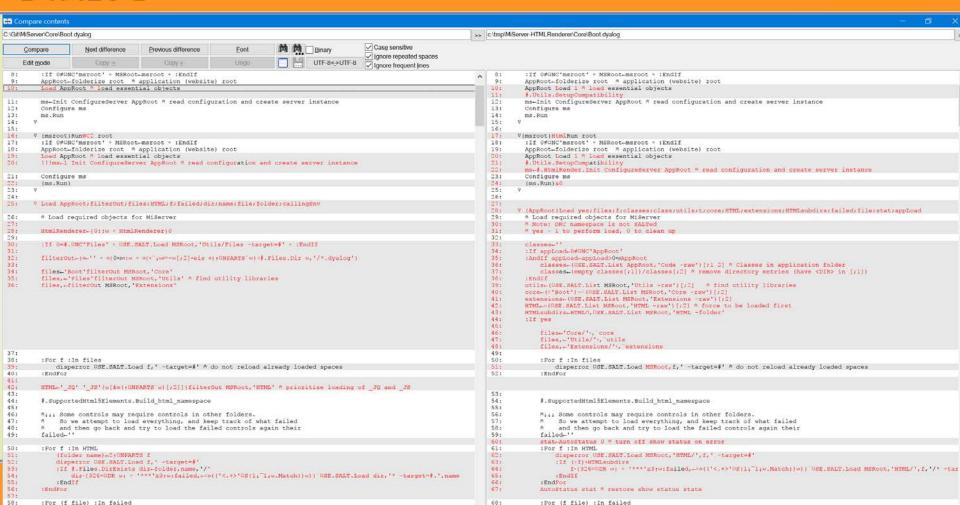
- Use mainstream source code management systems
 - SVN, GitHub, Mercurial, CVS, ...
 - File "diff" tools etc.
- Easily share code between APL versions
- Read, collaboratively write and exchange APL code without installing an APL IDE
 - Most operating systems display readable APL without installing APL fonts
 - Recent Linuxes even come with APL keyboard support built in (thanks to Geoff!)



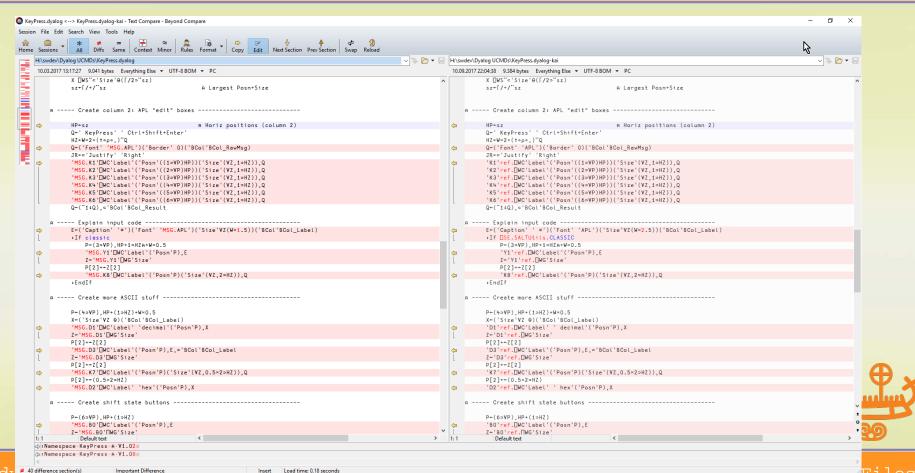


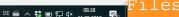


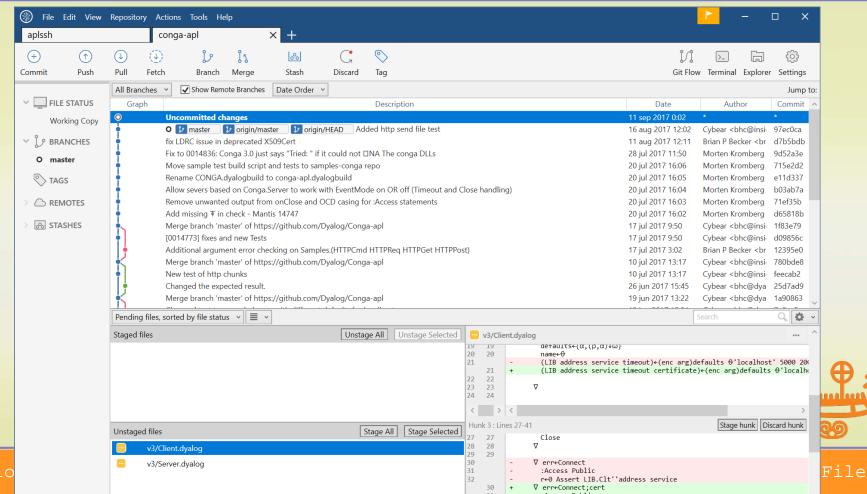
DV/\LOC Total Commander



Zur Suche Text hier eingeben





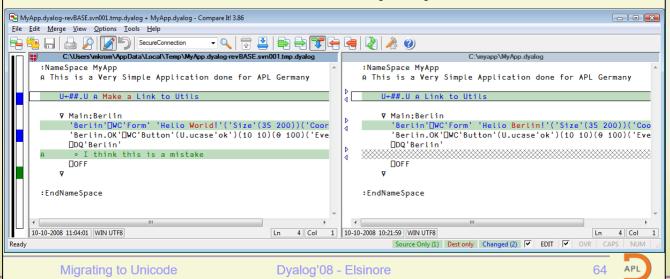




DVALOC Compare It! (in 2008)

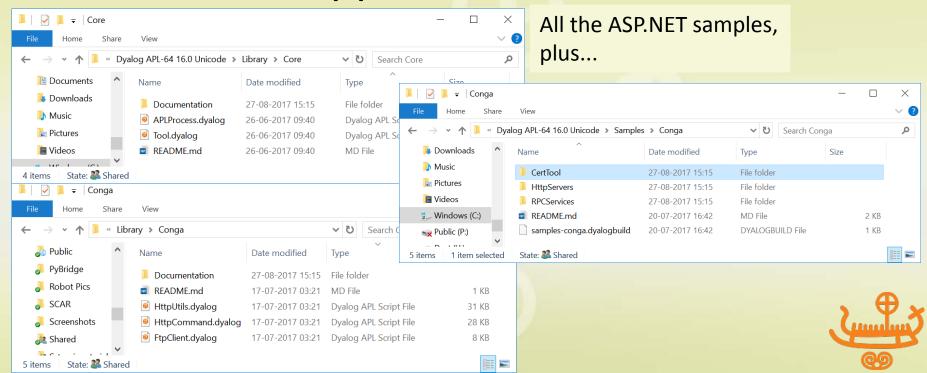
Source Code Mgt Demo

All tools shown here downloaded from internet, none of them knew about APL in any way.





Text Sources Shipped with v16.0



Demo / worked example

- See 1.txt
- Show APLProcess & HttpCommand examples
- Look at the secure conga Client code change in APL
- View it from SourceTree
- Run]dbuild and]dtest after looking at the scripts
- Commit change to github
- Show download from GitHub zip file



Dyalog needs to

- - Specific problem : Require vs AVRequire
- Move our QA scripts to text
- Move]dbuild and]dtest from being models to industrial strength tools
 - Rushed out due to internal need (CONGA 3.0)
- Add a package manager and define conventions for integration of libraries
- Work on tools to quickly load & save large bodies of code.



Dyalog needs to

 Develop a literal notation for multidimensional / deep constants, for example:

Support localisation on other lines than [0]



YOU need to...

- Get used to the idea and start making a long term plan to move towards text source(!)
- Talk to your IT people about the SCM system used internally and how APL can integrate with it
- Try to get comfortable with GitHub
 - Look at our projects there and comment
- Participate in design of]dbuild /]dtest
- Ask me questions now!



This means you!

