

DIALOG

Elsinore 2019



Link

*Morten Kromberg
Adám Brudzewsky*



DYALOG

Elsinore 2019

Link

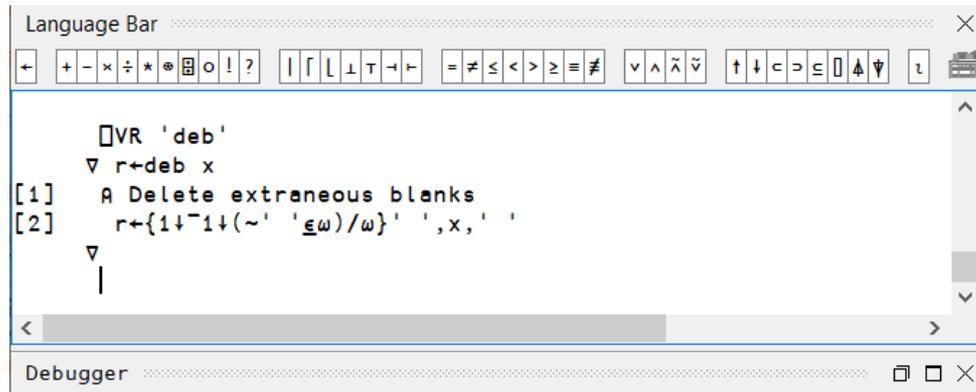
IMPORTANT

*Morten Kromberg
Adám Brudzewsky*

What is Link?



What is Link?



The screenshot shows the Dyalog Language Bar and Debugger interface. The Language Bar contains a toolbar with various symbols for navigation and execution. The Debugger window displays the following Link script:

```
VR 'deb'  
▽ r←deb x  
[1] A Delete extraneous blanks  
[2] r←{1↓-1↓(~' '⊂ω)/ω}' ',x,' '  
▽  
|
```



What is Link?

Language Bar

```

VR 'deb'
  ▽ r←deb x
[1]  A Delete extraneous blanks
[2]  r←{1↓~1↓(~' '⊆ω)/ω}' ',x,' '
  ▽
  |

```

Debugger

deb.aplf - Notepad

```

File Edit Format View Help
r←deb x
|A Delete extraneous blanks
r←{1↓~1↓(~' '⊆ω)/ω}' ',x,' '

```

Windows (Ln 2, Col 2 100%



What is Link?

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Debugger



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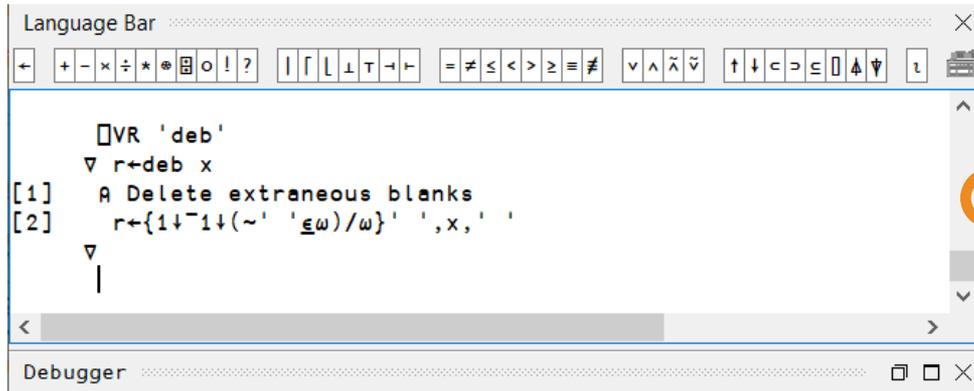
```

File Edit Format View Help
r←deb x
A Delete extraneous blanks
r←{1↓~1↓(~' '⊆ω)/ω}' ',x,' '
  
```

Windows (Ln 2, Col 2 100%

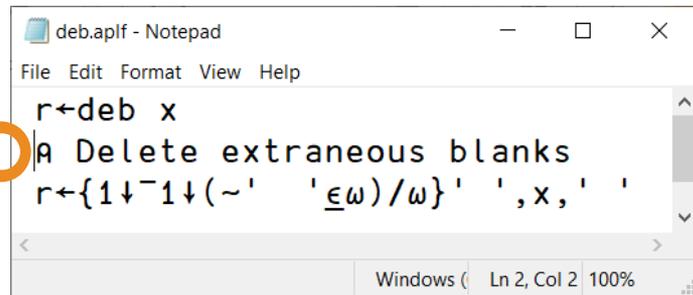


What is Link?



```

Language Bar
+ - * / ^ ~ v ^ ~ v
[1] VR 'deb'
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    r←{1↓-1↓(~' '⊆ω)/ω}' ',x,' '
    ▽
    |
Debugger
  
```



```

deb.aplf - Notepad
File Edit Format View Help
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r←{1↓-1↓(~' '⊆ω)/ω}' ',x,' '
Windows ( Ln 2, Col 2 100%
  
```

- Each code item in the active workspace is **linked** to a file
- If the object is edited, the file is updated
- If the file is changed, the workspace is updated (Win only – for now)



Wait – isn't that what SALT was doing?



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 - (SALT will be available until no longer used)



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- With Link...



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 - (SALT will be available until no longer used)
- With Link...
 - The interpreter is tracking the relationships between objects and files



Wait – isn't that what SALT was doing?

- Link replaces SALT
 - (SALT will be available until no longer used)
- With Link...
 - The interpreter is tracking the relationships between objects and files
 - A *File System Watcher* responds to external changes (until v18.0, under Microsoft Windows only)



Why is Link **IMPORTANT** ?

- Sigh... `- _(~)_/ -`



Why is Link

• Sigh...

Source Code Mgt Demo

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

MyApp.dyalog-revBASE.svn001.tmp.dyalog + MyApp.dyalog - Compare It! 3.86

File Edit Merge View Options Tools Help

SecureConnection

C:\Users\vmkrom\AppData\Local\Temp\MyApp.dyalog-revBASE.svn001.tmp.dyalog

```

:Namespace MyApp
A This is a Very Simple Application done for APL Germany

U+##.U A Make a Link to Utils

  ▽ Main;Berlin
  'Berlin'⎵WC'Form' 'Hello World!'('Size'(35 200))('Coo
  'Berlin.OK'⎵WC'Button'(U.ucase'ok')(10 10)(θ 100)('Eve
  ⎵DQ'Berlin'
  A I think this is a mistake
  ⎵OFF
  ▽
:EndNamespace
  
```

10-10-2008 11:04:01 WIN UTF8 Ln 4 Col 1

C:\myapp\MyApp.dyalog

```

:Namespace MyApp
A This is a Very Simple Application done for APL Germany

U+##.U A Link to Utils

  ▽ Main;Berlin
  'Berlin'⎵WC'Form' 'Hello Berlin!'('Size'(35 200))('Coo
  'Berlin.OK'⎵WC'Button'(U.ucase'ok')(10 10)(θ 100)('Eve
  ⎵DQ'Berlin'
  ⎵OFF
  ▽
:EndNamespace
  
```

10-10-2008 10:21:59 WIN UTF8 Ln 4 Col 1

Ready

Source Only (1) Dest only Changed (2) EDIT OVR CAPS NUM

Why is Link **IMPORTANT** ?

- With source code in text files we can use *extremely* attractive tools developed outside the APL community
 - Tools for editing, comparing, mergeing, refactoring, sharing, building, testing, computing statistics, ...



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Visual Studio Code



Jenkins



Why is Link **IMPORTANT** ?

- With source code in text files we can use *extremely* attractive tools developed outside the APL community
 - Tools for editing, comparing, mergeing, refactoring, sharing, building, testing, computing statistics, ...
- ... in addition to all our own tools



Visual Studio Code



Jenkins



Why is Link **IMPORTANT** ?

- With source code in text files we can use *extremely* attractive tools developed outside the APL community
 - Tools for editing, comparing, mergeing, refactoring, sharing, building, testing, computing statistics, ...
- ... in addition to all our own tools
- ... without losing any of what is good about interactive development



Visual Studio Code



Jenkins



Why is Link **IMPORTANT** ?



Visual Studio Code



GitHub



GITLENS

REPOSITORIES

- Link master 251 0t • ~4 -1 • Last fetched 9:29pm...
- master 251 0t ⇌ origin/master
 - Over a month ago
 - Handle listing links with no linked members ...
 - Don't init globals +0 ~1 -0 • abrudz, 2 months...
 - Exception trap +0 ~1 -0 • abrudz, 2 months ago
 - Merge branch 'master' of https://github.com...
 - Add general casing util +0 ~1 -0 • abrudz, 2 ...
 - Actually apply the case code, not just remov...
 - Fix #74 +0 ~1 -0 • abrudz, 2 months ago
 - Fixes #75: Src files incorrectly updated after)...
 - Fixes #77: FileSystemWatcher threading issu...
 - FileSystemWatcher.apln StartupS...**
 - Fixed #76: Add "ViewMetaData" +1 ~0 -0 • Y...
 - Show More Commits
 - 25 commits behind
 - 5 files changed
 - Compare master (working) with <branch, tag, ...

FILE HISTORY

LINE HISTORY

COMPARE

SEARCH COMMITS

```

c: > Devt > Link > StartupSession > Link > FileSystemWatcher.apln
27 r+LJNEW Disposable watcher A wrap a de: 27 r+LJNEW Disposable watcher A wrap
28 r.[DF 1φ'] [' , ##.U.WinSlash>args 28 r.[DF 1φ'] [' , ##.U.WinSlash>args
29 29
30 :Class Disposable 30 :Class Disposable
31 :Field Public Object 31 :Field Public Object
32 32
33 :Access Public 33 :Access Public
34 :Implements Constructor 34 :Implements Constructor
35 Object+ref 35 Object+ref
36 36
37 :do_dispose ref 37 :do_dispose ref
38 :Trap 0 38 :Trap 0
39 | ref.Dispose 39 | ref.Dispose
40 :EndTrap 40 :EndTrap
41 41
42 - ▾ dispose;tid 42 + ▾ dispose You, 2 months a
43 :Implements Destructor 43 :Implements Destructor
44 Object.EnableRaisingEvents+0 44 Object.EnableRaisingEvents+0
45 - tid+do_dispose&Object 45 + do_dispose Object
46 46
47 :EndClass 47 :EndClass
48 :EndNamespace 48 :EndNamespace
49 49
  
```




Search or jump to...



Pull requests

Issues

Marketplace

Explore

 **Dyalog / contest** Private

 Unwatch ▾

7

 Code

 Issues **9**

 Pull requests **0**

 Projects **0**

 Wiki

 Security

 Insights

Branch: **master** ▾

 Commits on Aug 25, 2019

Change LogMessageLevel to 1

 **bpbecker** committed 12 days ago ✓

Verified

 Commits on Aug 6, 2019

Updated status-message

 **mbaas2** committed on Aug 6 ✓

Verified

Commits on Jul 31, 2019



Search or jump to...



[Pull requests](#)

[Issues](#)

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[Dyalog / contest](#) Private

Unwatch ▾

7

[Code](#)

Issues 9

Pull requests 0

Projects 0

Wiki

Security

Insights

Branch: **master** ▾

Commits on Aug 25, 2019

Change LogMessageLevel to 1

bpbecker committed 12 days ago ✓

All checks have passed

1 successful check

Commits on Aug 6, 2019

Updated status-message

mbaas2 committed on Aug 6 ✓



continuous-integration/jenkins/branch — This comm...

[Details](#)

Stage View

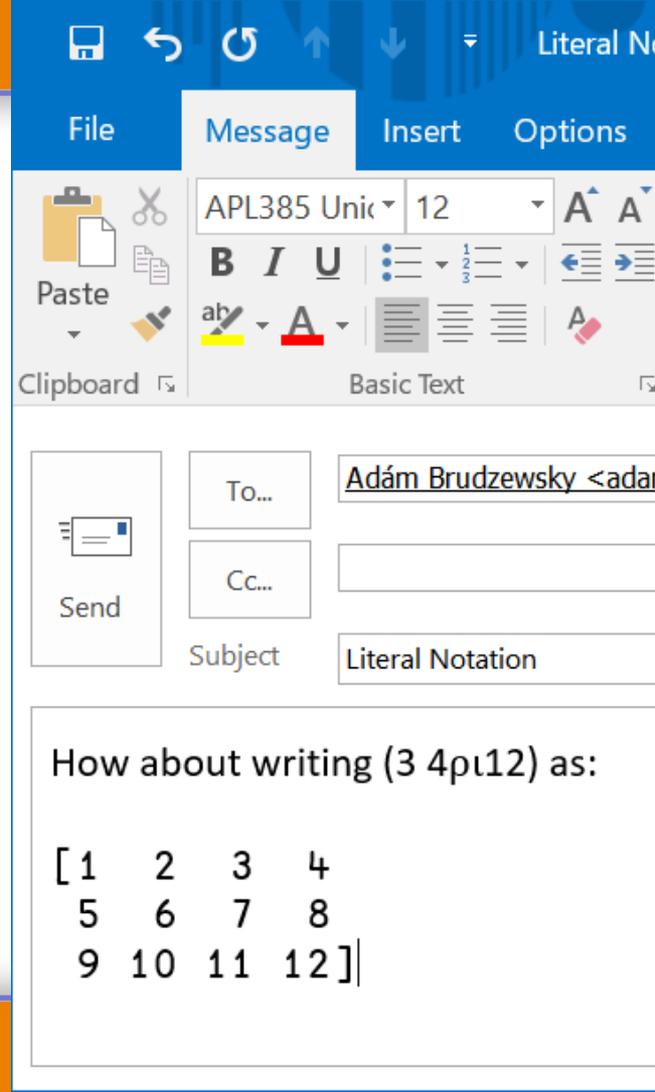
	Checkout	Update MiServer	Build Docker Image	Test website	Publish Docker image	Deploying with Rancher	Cleanup
Average stage times: (Average <u>full</u> run time: ~2min 31s)	8s	40s	16s	38s	12s	28s	1s
#598 Aug 25 22:48 1 commit	6s	41s	13s	36s	11s	24s	1s
#597 Aug 20 18:49 No Changes	5s	42s	12s	35s	11s	37s	1s
#596 Aug 06 09:56 1 commit	6s	50s	16s	35s	14s	26s	1s
#595 Jul 31 1	4s	33s	7s	35s	11s	23s	912ms

Not just "Software Tools"...



Not just "Software Tools"...

- Read, write and exchange APL code without installing an APL IDE
- Most operating systems display readable APL without installing APL fonts



Not just "Software Tools"...

- Read, 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 built-in APL keyboard (thanks to Geoff!)

```

mkrom@Ubuntu19:~$ setxkbmap dk,apl -option grp:win_switch
mkrom@Ubuntu19:~$ echo "æøå ∇△ αω"
æøå ∇△ αω
mkrom@Ubuntu19:~$ █

```

The screenshot shows an email client window with a blue header bar containing icons for file operations and the text "Literal Notation". Below the header are tabs for "File", "Message", "Insert", and "Options". The "Message" tab is active, showing a rich text editor with various formatting options like bold, italic, underline, and font color. The main content area of the email shows the following text:

How about writing (3 4ρ12) as:

```

[ 1  2  3  4
  5  6  7  8
  9 10 11 12 ]|

```

LS

Lars Stampe Villadsen <Lars.S.Villadsen@

To 'Adám Brudzewsky'

Cc Morten Kromberg

 Reply Reply All Forward

to 29-08-2019 14:21

Tools you have never heard of...

Gents,

I was asked for the number of lines in our system and I used one of our 'export' git repositories to make the analysis.

It turns out that we have quite a lot of programming languages in our system and if you want to do a proper analysis of this would it require SOME coding in order to give a proper picture of the system so I turned to free software that can do the jobs for me and I found <https://github.com/AIDanial/cloc>.

It does as quite a lot of tools NOT recognize APL source files so I had to amend the so-called language file to recognize API.

This gives a very high number of lines (and no comments) – and although APL does not need to be commented (😊) – then I know this is not true.

I have tried quite a lot of different things but cannot make it recognize the comment character from APL.

So my question is – do you have a better idea that could get this in to the CLOC tool and thereby make it a

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Reply All

Forward

⋮

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Search or jump to...



Pull requests

Issues

Marketplace

Explore

AIDanial / cloc

Code

Issues 16

Pull requests 1

Projects 0

Wiki

Security



cloc counts blank lines, comment lines, and physical lines of source code in many program

cloc

count-lines

programming-language

640 commits

4 branches

14 releases

Branch: master ▾

New pull request

Create

AIDanial add support for APL, #413

Unix

add support for APL, #413



Search or jump to...



Pull requests

Issues

Marketplace

Explore

AIDanial / cloc

Code

Issues 16

Pull requests 1

Projects 0

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Unix

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CLOC and APL



Lars Stampe Villadsen <Lars.S.Villadsen@>

To 'Adám Brudzewsky'

Cc Morten Kromberg



Reply



Reply All



Forward



to 29-08-2019 14:21



Re: CLOC and APL - Message (HTML)



File

Message

Help



Tell me what you want to do



Delete Archive

Delete



Reply



Reply All

Forward

Respond



Quick Steps

Quick Steps



Move

Move



Tags

Tags



Editing

Editing



Speech

Speech



Zoom

Zoom

Re: CLOC and APL



Adám Brudzewsky <adam@dy>

To Lars Stampe Villadsen

Cc Adám Brudzewsky; Morten Kromberg



Reply



Reply All



Forward



fr 30-08-2019 06:24



You replied to this message on 30-08-2019 08:15.

[CLOC now supports APL.](#)

Gents,

I was asked for the number analysis.

It turns out that we have quite an analysis of this would it require free software that can do this

It does as quite a lot of tools recognize API

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I have tried quite a lot of different

So my question is – do you

CLOC and APL



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To 'Adám Brudzewsky'

Cc Morten Kromberg

Reply

Reply All

Forward



to 29-08-2019 14:21



Re: CLOC and APL - Message (HTML)



File

Message

Help



Tell me what you want to do



Reply



Reply All

Forward



Quick Steps



Move



Tags



Editing



Speech



Zoom

Delete

Respond

Quick Steps

Move

Tags

Editing

Speech

Zoom

Re: CLOC and APL



Adám Brudzewsky <adam@dy>

To Lars Stampe Villadsen

Cc Adám Brudzewsky; Morten Kromberg

Reply

Reply All

Forward



fr 30-08-2019 06:24



You replied to this message on 30-08-2019 08:15.

[CLOC now supports APL.](#)

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Search or jump to...



Pull requests Issues Marketplace Explore

AlDanial / cloc

Watch 175 Star 7

<> Code Issues 14 Pull requests 1 Projects 0 Wiki Security Insights

add support for APL, #413

master

AlDanial committed 13 hours ago

1 parent 0880f13 commit e2ecba8957b1e09b6dd

Showing 5 changed files with 67 additions and 6 deletions.

17 Unix/cloc

```

@@ -6832,6 +6832,16 @@ sub set_constants {
6832     'aj'      => 'AspectJ'
6833     'am'      => 'make'
6834     'ample'   => 'AMPLE'
6835 +     'apl'    => 'APL'
6836 +     'apla'   => 'APL'
6837 +     'aplf'   => 'APL'
6838 +     'aplo'   => 'APL'
6839 +     'apln'   => 'APL'
6840 +     'aplc'   => 'APL'
6841 +     'apli'   => 'APL'
6842 +     'dyalog' => 'APL'
6843 +     'dyapp'  => 'APL'
6844 +     'mipage' => 'APL'

```

Why is Link **IMPORTANT** ?



Visual Studio Code



GitHub



Why is Link **IMPORTANT** ?



Visual Studio Code



GitHub



cloc

Count Lines of Code





Search or jump to...



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<https://www.carlislegroup.com>

support@carlislegroup.com

Verified

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[Packages](#)

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[Projects](#)

Pinned repositories

[Acre-Desktop](#)

A simple Dyalog APL IDE plugin that introduces "projects" and allows you to keep your source code in Unicode text files.

● APL ★ 6 🍴 1

Find a repository...

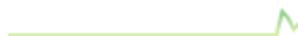
Type: All ▾

Language: All ▾

AWSTools

Dyalog APL Amazon Tools

 MIT  0  0  0  0 Updated 10 hours ago



Top languages

 APL  JavaScript

D19SP1

Dyalog APL User Meeting Cloud Workshop resources

 APL  0  0  0  0 Updated 11 hours ago



Most used topics

apl

dyalog

acre

acre-desktop

Acre-Desktop

A simple Dyalog APL IDE plugin that introduces "projects" and allows you to keep your source code in Unicode text files.

[apl](#) [acre](#) [dyalog](#) [dyalogapl](#) [acre-desktop](#) [aplsources](#) [dyalog-apl](#)

 APL  MIT  1  6  16  0 Updated 15 hours ago



People ➤

This organization has no public members. You must be a member to see who's a part of this organization.

AcreTools

Tools for working with Acre Projects.

 APL  MIT  2  1  6  0 Updated 2 days ago



Rumba

A Web Server for Dyalog APL

● APL  MIT  1  1  10  1 Updated 4 days ago



DyalogDCL

Dyalog DCL library clone accessible from Acre-Desktop

 0  0  0  0 Updated 7 days ago



DCFAnalyzer

Dyalog Component File Debug Analyzer

 0  0  0  0 Updated 7 days ago



DCL

Forked from Dyalog/DCL

Dyalog Cryptographic Library

● APL  2  0  0  0 Updated 17 days ago



XL2APL

github.com/Dyalog

More and more of Dyalog's
APL code is appearing on
GitHub

Why GitHub? Enterprise Explore Marketplace Pricing Search / Sign in Sign up

Dyalog
Official Dyalog Repository tree (for Raspberry Pi specific repositories see https://github.com/apl/api)
United Kingdom http://www.dyalog.com

Repositories 33 Packages People 3 Projects

Find a repository... Type: All Language: APL

21 results for repositories written in APL Clear filter

DUI
Dyalog User Interface - HTML-based cross-platform UI for Dyalog APL
● APL MIT 1 1 2 1 Updated 5 hours ago

MiServer
MiServer - an APL-based web server - requires Dyalog APL available from http://www.dyalog.com
apl
● APL MIT 8 25 7 0 Updated yesterday

JSONServer
A light-weight APL-based HTTP server to call APL code from the net by passing arguments and results as JSON.
json http-server apl json-server dyalog
● APL Unlicense 3 2 0 0 Updated 4 days ago

link
Code for linking a namespace to a directory
synchronization sourcecode source-code apl
som dyalog dyalog-library
● APL MIT 2 4 18 0 Updated 4 days ago

library-conga
● APL 0 0 1 0 Updated 13 days ago

isolate

Top languages
● APL ● Shell ● Python ● C
● HTML

Most used topics
apl dyalog dyalog-apl
dyalogapl

People 3 >


Other Benefits of Text Source



Other Benefits of Text Source

- Easily share code between APL versions



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- Easily share code between APL versions
- Text files are backwards **and** forwards compatible



Other Benefits of Text Source

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Drawbacks of Text Source



```
]map
]link.create # /tmp/myapp -source=ns
C:> tree /f myapp
□SE.Link.Add 'msg' 'primes' 'type'
C:> tree /f myapp
C:> type msg.apla
*** pull out Utils ***
]link.create Utils /tmp/Utils
)ed Utils.dup
*** show windows ***
)ed goo
*** show windows ***
```



Compete for prizes totaling €500



Compete for prizes totaling €500

```
SE.Link.Serialise ↓2 3 2pA
['AB' 'CD' 'EF'
 'GH' 'IJ' 'KL']
```

```
SE.Link.Serialise ↓2 3 2p10
[(1 2) (3 4) (5 6)
 (7 8) (9 10) (1 2)]
```



Compete for prizes totaling €500

```

SE.Link.Serialize 5↓5TC
[
  ((( (UCS 8)) ♦ )) ♦ ))
  ((( (UCS 10)) ♦ )) ♦ ))
  ((( (UCS 13)) ♦ )) ♦ ))
]

SE.Link.Serialize ↓↓2 3 2p10
(
  ((1 2 ♦ 3 4 ♦ 5 6 ♦ ))
  ((7 8 ♦ 9 10 ♦ 1 2 ♦ ))
)

```



Compete for prizes totaling €500

```

SE.Link.Serialise  ↵↓↵TC
[
  ((( (UCS 8) ◇ )) ◇ ))
  ((( (UCS 10) ◇ )) ◇ ))
  ((( (UCS 13) ◇ )) ◇ ))
]

```

```

[ ((UCS 8 ◇ ) ◇ )
  ((UCS 10 ◇ ) ◇ )
  ((UCS 13 ◇ ) ◇ ) ]

```

```

SE.Link.Serialise  ↓↓2 3 2p10
(
  ((1 2 ◇ 3 4 ◇ 5 6 ◇ ))
  ((7 8 ◇ 9 10 ◇ 1 2 ◇ ))
)

```

```

((1 2 ◇ 3 4 ◇ 5 6)
 (7 8 ◇ 9 10 ◇ 1 2))

```



]LINK

]link -?

LINK	User commands for namespace-directory synchronisation (see https://github.com/dyalog/link/w)
Add	Associate item in linked namespace with new file/directory in corresponding directory
Break	Break link between namespace and corresponding directory
Create	Link a namespace with a directory (create one or both if absent)
Export	Export a namespace to a directory (create the directory if absent); does not create a link
Expunge	Erase item and associated file
GetFileName	Return name of file associated with item
GetItemName	Return name of item associated with file
Import	Import a namespace from a directory (create the namespace if absent); does not create a link
List	List active namespace-directory links
Refresh	Fully synchronise namespace-directory content





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Adám Brudzewsky edited this page 23 days ago · 6 revisions

Link facilitates the use of text files for APL source code through the creation of one or more *links* between *namespaces* inside the active workspace and *directories* containing source code.

Functionality provided by links include:

- **Keeping Source Files Up-to-date:** Typically, links are configured to replicate any changes made using the Dyalog editor and tracer to external source files. As a result, the source files are kept up-to-date without further action by the developer.
- **Integrating External Changes into the workspace:** Links can be also be configured to use a "file system watcher" to replicate changes made using external tools such as editors and source code management systems inside the active APL session. This functionality is currently only available under Microsoft Windows, but the intention is to extend support to all platforms.
- **Loading and Saving Source Files:** Link can also be used to copy source code into or out of an

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