DVALOC





APL Media Update

Rich Park

DVALOG

- The Mission
- The Plan
- Watch, Read and Listen Now
- Coming Up...





The Mission

Improve the new APLer experience

Inclusivity helps everyone

#dyalog21



Getting Started

Getting started with any new programming language can seem like a daunting task, and the Dyalog application development platform ships with enough features that you might appreciate some guidance to help you get started. The resources on this page are free of charge and aimed at APL novices.



APL Seeds

Events aimed at those who are just starting their APL journey.

Download the materials from APL Seeds '21



Basics

Resources to help you take your first APL steps:

- Tips is a page of "useful to know" suggestions from previous beginners.
- <u>Mastering Dyalog APL</u> by Bernard Legrand is a complete guide to the use of Dyalog, beginning with a thorough
 introduction to the APL programming language and progressing to worked examples. The book is available for purchase
 through Amazon; a free PDF download and an online revision (currently under development) are also available.
- <u>TryAPL</u> offers an interactive environment that allows users to play with simple APL expressions. Its <u>Learn tab</u> includes tutorials in which various scenarios are explored.
- APL Wiki includes simple examples of APL in action (as well as some more advanced ones).
- APL Cultivation is a series of chat lessons that were run through the APL Orchard chat room.
- <u>APL Course</u> is a self-study introduction to Dyalog with exercises.
- <u>APL Tutor</u> is an online system that takes a complete novice through the terminology, conventions and functionality of APL (not specific to Dyalog's dialect) – it looks a little dated but is a useful introduction.







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| No. | Date | Presenter(s) | Title |
|-----|-------------|----------------------|--------------------------------|
| 38 | 18 Feb 2021 | Adám Brudzewsky | Error Handling - Part 1₺ |
| 39 | 18 Mar 2021 | Richard Park | Boolean scans and reductions ☑ |
| 40 | 15 Apr 2021 | Adám Brudzewsky | Error Handling - Part 2₺ |
| 41 | 13 May 2021 | Rodrigo Girão Serrão | Drawing the Mandelbrot Set ☑ |
| 42 | 10 Jun 2021 | Adám Brudzewsky | Error Handling - Part 3₺ |
| 43 | 8 Jul 2021 | Richard Park | Database Basics d ✓ |
| 44 | 5 Aug 2021 | Adám Brudzewsky | Error Handling – Part 4₺ |
| 45 | 2 Sep 2021 | Richard Park | TryAPL v3₺ |
| 46 | 30 Sep 2021 | Adám Brudzewsky | Error Handling – Part 5₺ |





- dyalog.tv
- dyalog.com



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- dyalog.com
- mastering.dyalog.com



Mastering Dyalog APL

Q Search this book...

- 1. Introduction Will You Play APL With Me?
- 2. Getting Started
- 3. Data and Variables
- 4. Some Primitive Functions
- 5. User-Defined Functions
- 6. First-Aid Kit
- 7. Execute & Format Control
- 8. Working on Data Shape
- 9. Special Syntax
- 10. Appendices

Powered by Jupyter Book









Mastering Dyalog APL

The "Mastering Dyalog APL" book is the *de facto* standard for people who are looking to learn Dyalog APL from a book. In today's world technology changes rapidly, so a printed book about a programming language is at risk of becoming outdated.

Attention

This online version is a **work in progress**. It is missing chapters and sections and the content here may undergo heavy revision.

The first edition of "Mastering Dyalog APL" is an excellent resource but is becoming more and more outdated as the years go by and Dyalog APL evolves. For that matter, an updated and more modern version of the book is being created out of Jupyter Notebooks (available in this GitHub repository) to provide for a more interactive learning experience for those who like to read and experiment. A static online version also exists, and a printed version will be made available for those of you who prefer to hold a paper book in their hands.

The first edition dates back to November of 2009 and was written by Bernard Legrand, with most grateful acknowledgements to the contributors:

- Kim S. Andreasen
- Daniel Baronet
- Gitte Christensen
- Peter Donnelly
- Morten Kromberg
- John Scholes
- Adrian Smith
- Tim JA. Smith

- dyalog.tv
- dyalog.com
- mastering.dyalog.com
- course.dyalog.com



DYNLOC

The Dlan **DVALOC** APL Course

Q Search

APL Course

About

First Steps Dfns and Assignment

Selecting from Lists

The Outer Product

Shape Reshape

The Array Model

APL Course

A self-study introduction to Dyalog APL with exercises.

This course consists of a series of short instructional notes interleaved with problem sets. The first few sessions are accompanied by video tutorials.

Status

This site is a work in progress. Currently we are transferring content from APL Workshop while reviewing and updating it.

Table of contents

Status

Getting Started

Audience

Feedback



- dyalog.tv
- dyalog.com
- mastering.dyalog.com
- course.dyalog.com
- Continue to support external APL efforts



Learn By Doing

Stefan Kruger's Book: xpqz.github.io/learnapl

Dyalog APL Course (Work In Progress): course.dyalog.com

x (+/ ×°⁻1)°1 2 ⊢y Learning APL





DYNLOC

Learn By Doing

Stefan Kruger's Book: xpqz.github.io/learnapl

U01: Here's The Plan: Learn APL, and Write a **Book About It** Stefan Kruger

Dyalog APL Course (Work In Progress): course.dyalog.com



apl.wiki/learning_resources



Learn By Doing

- Open API
- Save and Load "workspaces"
- @tryaplbot
- Improving Jupyter notebook support

Webinar: Presenting TryAPL v3 (dyalog.tv)



DVALOC

apl.wiki





Wiki

Main page Recent changes Random page Help about MediaWiki

Tools

Related changes Special pages Printable version Permanent link Page information Cite this page Create Redirect

What links here

Main page Discussion

View source View history

Search APL Wiki

Welcome to APL Wiki,

358 articles about APL that anyone can edit

APL is an array-oriented programming language W. Its natural, concise syntax lets you develop shorter programs while thinking more about the problem you're trying to solve than how to express it to a computer.

Running APL

Traditionally a commercial language, quite a few implementations are now free without feature limitations, several can be tried online, and many are open source.

Running APL · Try APL online @

Who uses it?

APL is used by both hobbyists and application developers. There are active user groups all around the globe, many of these hold regular in-person meet-ups. There are also multiple online forums.

Case studies · Job listings · Community overview

Hello world

Taking up a new programming language can be a daunting task. While it can appear cryptic at first, you can learn to read, write and remember APL with little effort. There is plenty of material to help you in the process.

Introductions · Learning resources · Language overview

Contributing

APL Wiki is an online open-content wikiW; that is, a voluntary association of individuals and groups working to develop a common knowledge resource. The structure of the project allows anyone with an Internet connection to alter its content.

How to contribute · New pages · Wanted pages

Watch, Read and Listen Now



apl.wiki/campfire



Harry Saal Joel Wittenberg Ron Murray Len Shustek Joey Tuttle Gitte Christensen Ray Polivka Jon McGrew Walter Fil **Andy Shiers** Geoff Streeter Jim Brown

Improving Visibility

A vendor agnostic logo?

apl.wiki/APL_logo



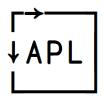


















Array Language Media





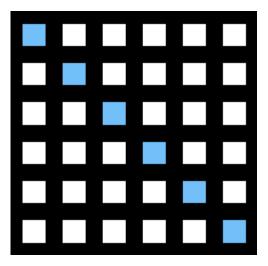








Watch, Read and Listen Now



The Array Cast

arraycast.com

Watch, Read and Listen Now The Array Cast

Attila Vrabecz

Eric Iverson

Gitte Christensen

Henry Rich

Marshall Lochbaum

Morten Kromberg

Adám Brudzewsky

Bob Therriault

Conor Hoekstra

Richard Park

Stephen Taylor

arraycast.com

Watch, Read and Listen Now



Asher Mancinelli (asher bqn)





Conor Hoekstra (code report)



Rodrigo Girão Serrão (rodrigo apl)



Jamie Raymond (jamie raymond apl)



Isaac Wooden (yernab)



Michal Wallace (tangentstorm)



Rich Park (rikedyp)



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Watch, Read and Listen Now

dyalog.com/blog



Welcome to new team members

"Thank you"s and other community posts

Tips and tricks

News regarding recent releases

Competition entry highlights and commentary

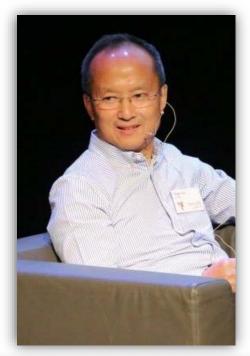


DYNLOC

Watch, Read and Listen Now

dyalog.com/blog

apl.wiki/Roger_Hui#Publications









Main page Recent changes Random page Help about MediaWiki

Tools

What links here Related changes Special pages Printable version Permanent link Page information Cite this page Create Redirect Page Discussion Read View source View history Search APL Wiki Q

Roger Hui

Roger Kwok Wah Hui (December 29, 1953 - October 16, 2021^[1]) was a computer scientist and co-developer of the programming language J, and later Dyalog APL. He ran and maintained the Jsoftware website.

Contents [hide] 1 History 2 Death 3 Publications 3.1 APL conferences 3.2 Dyalog user meetings 3.3 Essays 3.4 Other talks 4 External links 5 References



Y Hacker News new | past | comments

1. A LOphtCrack Is Now Open Source (10phtc

2. * NixOS on Framework Laptop (kvark.githu

4. ▲ HTTP is obsolete – it's time for the dist Hacker News honouring Roger Hui with a black

Roger Hui has died (jsoftware.com)
 264 points by z0a 7 hours ago | hide | 19 comments

bar across the top banner.

67 points by rbanffy 1 hour ago | hide | 25 comments

184 points by kvark 5 hours ago | hide | 106 comment



Roger Hui's Iverson Award

History

Hui's work was described at the APL85 conference in a paper, "DESIGN: A Financial Modelling System", written jointly with his supervisor, Fred Appleyard. The basic objects in the system were in "Direct Definition" (Iverson, 1976, 1980), and Falkoff and Iverson's The Design of APL was cited. Hui left Alberta Energy shortly after being promoted to a non-APL and non-programming position, and was out of work, and had no access to computers, from September 1985 to April 1986. This gave him plenty of time for intense study of Iverson's Rationalized APL (1983) and A Dictionary of the APL Language, as it was then named. In 1996, Hui received the Iverson Award for his work on the design, implementation, and commercial development of J.

Death

 \Box

Hui's death was announced by Eric Iverson on October 16, 2021. [1] It was subsequently noted in various media, including Hacker News^W (which displayed a black banner in his honour). [2] Reddit W. [3] Jsoftwares's chat [4], and Dyalog news [5]

Publications

APL conferences

- APL85: Design: a financial modelling system. With Fred Appleyard.
- APL87: Some uses of { and }
- APL91: Gerunds and representations ₽. With Robert Bernecky.
- APL91: Tacit definition
 With Kenneth E. Iverson and Eugene E. McDonnell.
- APL94: TAGS: trains, agendas, and gerunds. With Kenneth E. Iverson.

 Nurikabe Goldbach Conjecture ₽ Tree Sum

Ø Bernoulli Numbers

 Incunabulum Combination Index Sorting versus Grading ₽ Self-Upgrading Permutations Boolean Array Size ₽ N Queens Problem In-Place Operations ☑ Self-Downgrading Permutations

 RNG Extended Precision Functions QR Decomposition Gray Code ₽ Text Formatting Linear Recurrences Do While ₽ Next Binary String Roman Numeralsr

 Rom Other talks Functional Conf 2016: A Tour de Force of APL in 16 Expressions ₽ External links Roger HuiW Jsoftware website Memorial website Dyalog blog posts by Roger Hui Dyalog Forum posts by Roger Hui References 1. ↑ 1.0 1.1 Eric Iverson. Roger Hui - 1953 - 2021 ₺. Jsoftware programming forum. 2021-10-17. 2. ↑ Hacker News. Roger hui has died . 2021-10-17. 3. ↑ Reddit. Roger Hui (1953 - 2021) ₽. aplik subreddit. 17 Oct 2021. 4. ↑ Raul Miller. Roger Hui - 1953 - 2021 . Jsoftware chat forum. 2021-10-17. ↑ Dyalog Ltd. Roger Hui . Dyalog news. 2021-10-18. APL community [edit] [Expand] Categories: People | Jsoftware employees | Dyalog Ltd. employees | I.P. Sharp Associates employees | Designers | Executives | Implementers This page was last modified on 3 November 2021, at 11:40. Content is available under Creative Commons Attribution-ShareAlike unless otherwise noted.

Josephus Problem®

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Symmetries of the Square ₽



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The APL Orchard



https://apl.chat — Learn, teach, ask, code, golf, & discuss usage. See https://apl.wiki/APL_Orchard for access and info,



https://aplcart.info for simple how-to questions. edit





first message 2017-01-24 last message 12 minutes ago





join this room

view transcript

search for messages containing



331

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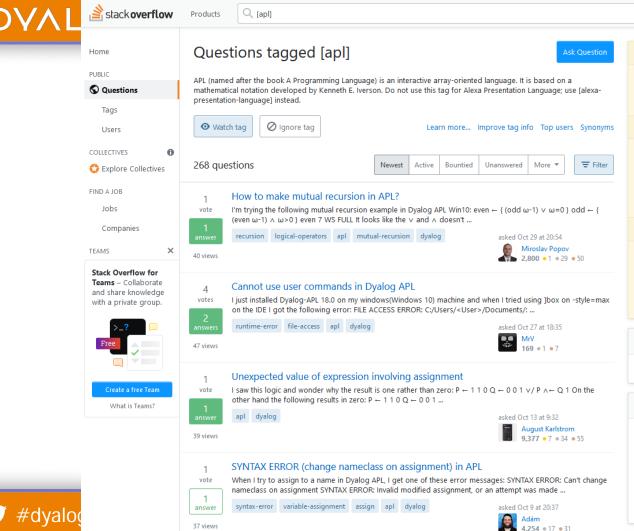
The APL Farm on Discord



discord.gg/cYbMMw5D

reddit.com/r/apljk







Watch a tag

The Overflow Blog

2 421 •3 •4 **2** •110 **2** ■



Coming Up...

- User Groups
 - apl.wiki/community
- BAA + Dyalog Webinars
 - dyalog.com/dates-for-your-diary.htm
 - BAA Open Session

- Thursday 18th November

- sigapl.org
 - NYCJUG Meeting

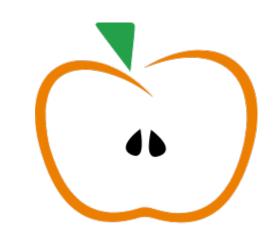
- Tuesday, November 9th, 2021
- APL Germany / GSE APL meeting November 22-23rd, 2021
- APL Seeds '22



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APL Seeds '21

Will You Play APL With Me?
Rodrigo Girão Serrão
How an APL Prototype Helped Designing a Service
Martin Janiczek
Algorithms as a Tool of Thought
Conor Hoekstra
Simulation and Gaming with APL
Tomas Gustaffson



dyalog.tv/APLSeeds21

APL Seeds '22

- Spring 2022
- New and prospective APL users
- What is your APL story? We'd love to hear
- aplseeds@dyalog.com



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APL (and array-language) Media











