



Welcome to APL

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Who am I?

New APLer

Forge

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Quick Show of Hands

Heard?

Used?



Myth ... APL is Unreadable

- Not if you learn it!

متوسط

평균

$$\left[\frac{1}{n} \sum_{i=1}^n x_i \right]$$

平均

+ / ÷ ≠

Myth ... APL is Unreadable

Sum $\leftarrow +/$

Div $\leftarrow \div$

Cnt $\leftarrow \neq$

Avg $\leftarrow$ Sum Div Cnt

Myth ... APL is Unreadable

Avg $\leftarrow$ (+/) (÷) (≠)

Myth ... APL is Unreadable

Avg $\leftarrow +/\div\neq$

Myth ... APL is Unreadable

(+ / ÷ ≠)

Myth ... APL is Unreadable

`( + / ÷ ≠ ) 1 2 3 4`

`2.5`

Myth ... APL is Unreadable

(⊢ > +/÷≠) 1 2 3 4

Myth ... APL is Unreadable

$(\vdash > + \neq \div \neq) \quad 1 \quad 2 \quad 3 \quad 4$

0 0 1 1

Myth ... APL is Unreadable

```
(⊢÷+⌈) 1 2 3 4
0.1 0.2 0.3 0.4
+⌈(⊢÷+⌈) 1 2 3 4
1
```

What is APL?

~~Un~~readable

Array-oriented Programming Language

Slide Content: Adám Brudzewsky

What is APL?

Symbolic
Array-oriented Programming Language
for Communicating Algorithms
to Computers
and Humans

Slide Content: Adám Brudzewsky

What is APL?

Symbolic



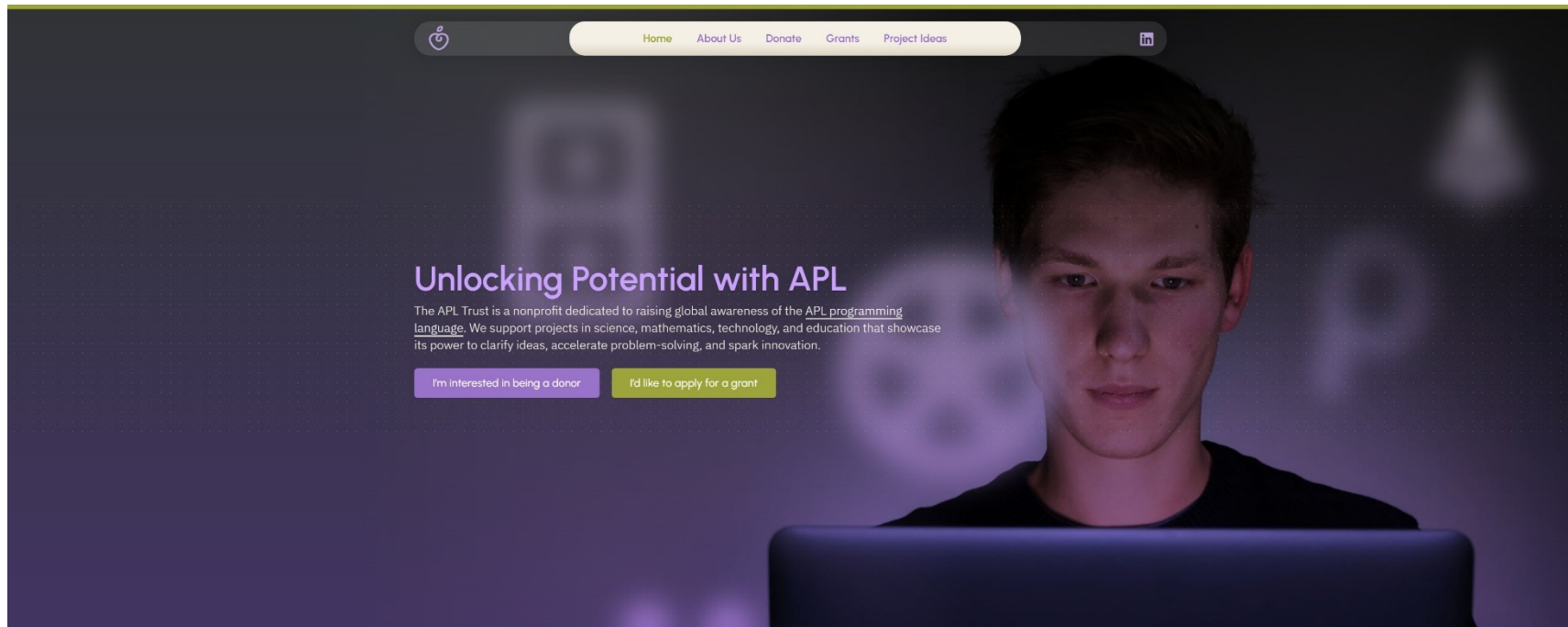
Slide Content: Adám Brudzewsky

Why an APL Project?

Write less, do more

Rapid iteration

Opportunities



Why APL Matters

APL is more than just a programming language. It is a powerful tool of thought, designed to help people express complex ideas in clear, concise ways. Its unique array-based approach makes it especially well-suited to problems in science, mathematics, and data analysis, where clarity and speed are essential.



Getting Started

[APL Challenge](#)

[Dyalog APL Course](#)

[Learning APL](#)

[Learn APL with Neural Networks](#)



Neat! <https://youtu.be/pMslgySQ8nc>



codereport Add ☐ IO←0

Code

Blame

```
1  ⌈ Conway's Game of Life
2
3  ☐ IO←0
4
5  lifeInit ← {?2p~1 2×ω}
6  lifeIter ← {⊃1 ωv.Λ3 4=+/+÷1 0 ~1°.Θ1 0 ~1Φ¨cω}
7  life      ← '.Φ'[t←lifeInit 10]
8  {} {life←'.Φ'[ω] ♦ _←☐DL÷8 ♦ lifeIter ω}×≡t
```

☐ SI: 0 &: 1 Ln 1973, Col 6