Daniel Knight, Dave McGinnis, Michael Pridal-LoPiccolo
The Breakfast Club

A PROGRAMMING LANGUAGE

The Story So Far...

- Original Plan: Claire
 - Locked Yahoo! Group
 - No Access...

Curt...

- New Plan: APL!
 - Dyalog APL
 - Need to request an educational license



APL is...

- Array-based (1-based)
- Functional (Impure)
- Modular
- Poorly Documented
- Lexicographically Intriguing
- Code once; Comprehend nowhere
- Mental Breakdown-Inducing

APL "Keywords"

- APL does not have keywords. It has symbols.
- Assignment:
 - h ← 1 2 3 4
- Control Structures:
 - $\overline{\bullet} \longrightarrow (L1, L2, L3...)[((f) + 1)]$
- Reduce:
 - +/h -> 10
 - x/h -> 24
- Expand:
 - +\h -> 13610
 - x\h -> 12624

More Keywords!

- Range
 - 10 -> 12345678910
- Index of
 - 'We're all pretty bizarre. Some of us are just better at hiding it, that's all.' ι 'aeiou' -> 7 2 19 28 35
- Take
 - 2†h -> 1 2
- Size/Rank
 - ph -> 4
 - pph -> 1

Examples

- Factorial
 - x/ in -> n!
- Fibonacci
 - fib
 f←0 1
 :While (ρf)<n
 f←f,(+/(⁻2↑f))
 :EndWhile
 fibn←⁻1↑f

Cartoon of the Day



A laptop battery contains roughly the stored energy of a hand grenade, and if I shorted it ... hey! You can't arrest me if I prove your rules inconsistent.

Find the Position of a Colon in a string

Live Demo

Project Demonstration

Video of the Day



- (other11,num1)[(∨/('1234567890+÷*'=1↑(parFInd⊃par Fbody)))+1]
- colInd←+/((Expr=':')×ι(ρExpr))

APL

- Strengths:
 - Math
 - Matrices
 - Fast
- Weaknesses:
 - Unreadable
 - No Documentation
 - Strings....