

What APL taught me about Python ⚡

by Rodrigo Girão Serrão

“A language that doesn't affect the
way you think about programming,
is not worth knowing.”

— Alan J. Perlis

What's APL?

APL = A Programming Language

APL = A Programming Language
Terrible name, right?

Game of life



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What APL taught me about Python

*mileage may vary



+ / ages > 17



+/ages>17



```
adults = 0
for age in ages:
    if age > 17:
        adults += 1
```



+/ages>17

```
adults = 0
for age in ages:
    if age > 17:
        adults += 1
    else:
        adults += 0
```



+/ages>1^



```
adults = 0
for age in ages:
    adults += (
        1 if age > 17 else 0
    )
```



+/ages>17



```
adults = 0
for age in ages:
    adults += age > 17
```



+ / ages > 17



```
sum(age > 17 for age in ages)
```



+ / ages > 17



sum(age > 17 for age in ages)



+ / ages > 17



sum(age > 17 for age in ages)



```
+ / ages > 17
```



```
↑
```



```
↓
```

```
sum(age > 17 for age in ages)
```



sum



+ /



sum

min

all

"".join

math.prod

any

max



+ /



sum

min

all

"".join

math.prod

any

max



+ /

[/

\ /

, /

* /

v /

] /



sum

min

all

"".join

math.prod

any

max



+ /
[/
^ /
, /
x /
v /
[/



sum

min

all

"".join

math.prod

any

max



+ /

[/

^ /

, /

x /

v /

[/

These are all the same thing!



sum

min

all

"".join

math.prod

any

max



+ /

[/

^ /

, /

* /

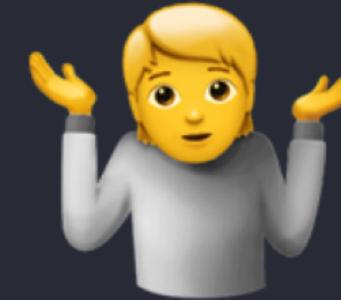
v /

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functools.reduce

**APL taught me
one other thing...**

You DON'T know
comprehensions



Is the talk over?

No.

Yes.

Applause

