WRITE BETTER PYTHON LAMBDA EXPRESSIONS

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WHAT ARE THEY?

Anonymous functions that evaluate a single expression.

i.e. lambda x: x*x

WHAT AREN'T THEY?

A good place for complicated or reusable code.

HOW DO I WRITE ONE?

lambda x: x**3

HOW DO I USE ONE?

```
a = [1,2,3]
map(lambda x: x**3, a)
-> [1,8,27]
```

```
filter(lambda x: x%2 == 0, a) -> [2]
```

HOW DO I AVOID THEM?

```
a = [1,2,3]

[x**3 for x in a]

-> [1,8,27]
```

```
[x for x in a if x%2 == 0]
-> [2]
```

RECAP

- Lambda expressions are used to define short, simple anonymous functions.
- Mainly used with map, filter, sort, and UI programming.
- You can write Python without them, but you need to understand them.

RECOMMENDED RESOURCES

- https://pythonconquerstheuniverse.wordpress. com/2011/08/29/lambda_tutorial/
- http://python-history.blogspot.com/2009/04/origins-of-pythonsfunctional-features.html