

Python is NOT easy

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Why is Python easy?

- Easy to predict the behaviour of Python
- Easy to generalise

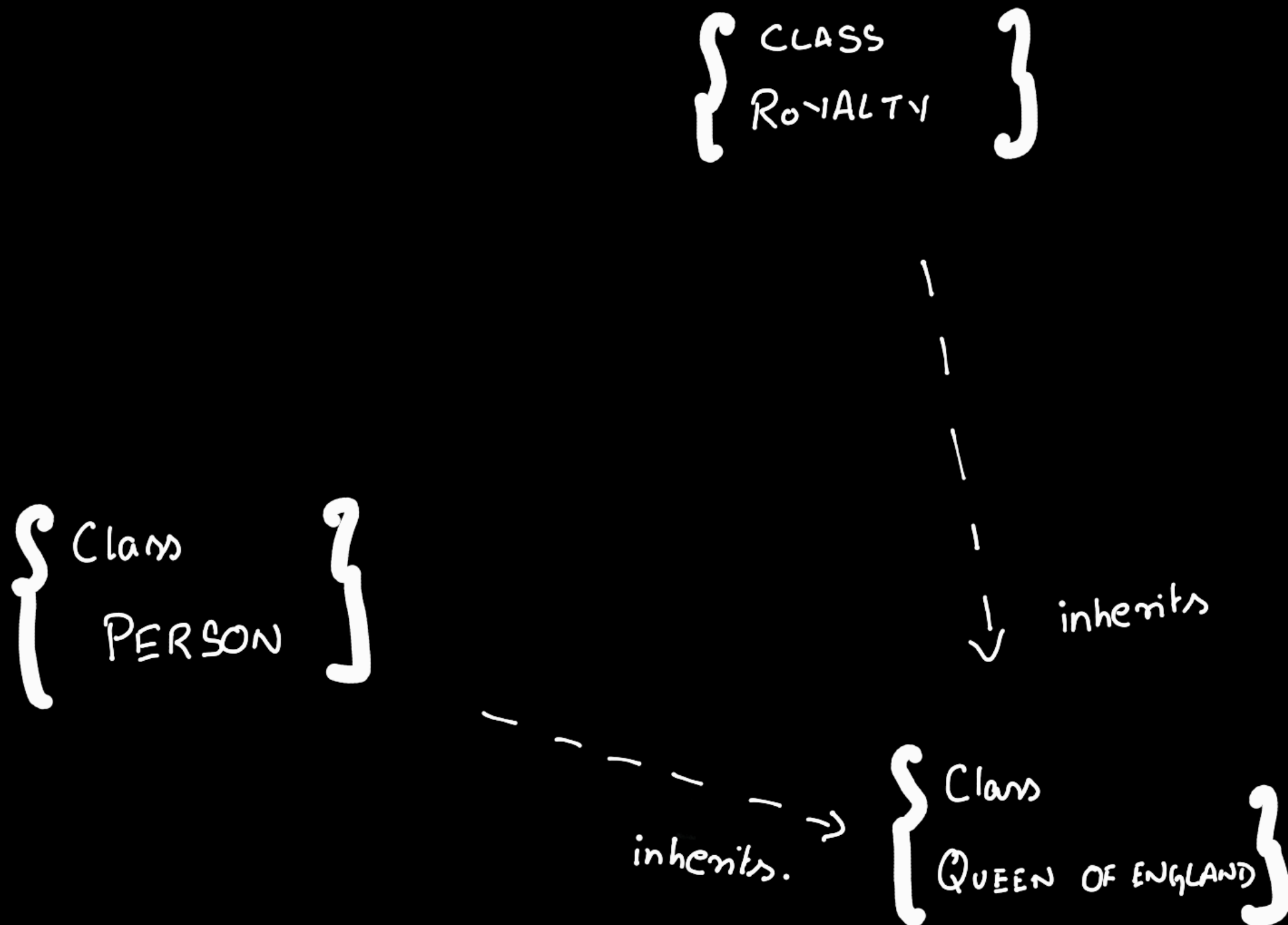
Why is Python NOT easy?

Behaviours that make life easy for the user
actually have a lot going on behind the
scenes

Topics we'll be covering

- Inheritance in Python
 - Metaclasses
 - Decorators
 - Mixin Classes
- Slots
- Misc.

Inheritance Generally



Inheritance in Python

Insert the class mess in SymPy

**SymPy has over 1700 classes
Pictured above are the classes I needed to modify**

Inheritance in Python

- Hybrid inheritance: Multiple, Multilevel & Hierarchical
-

Decorators

What happens when a class is declared?

< Image about how classes are declared >

Mixin Classes

- Not a feature. Not a doctor

`__slots__`

- Code example of normal behaviour

__slots__

- With slots

Functions are Objects
and vice-versa

Python interfaces with C

Thanks!