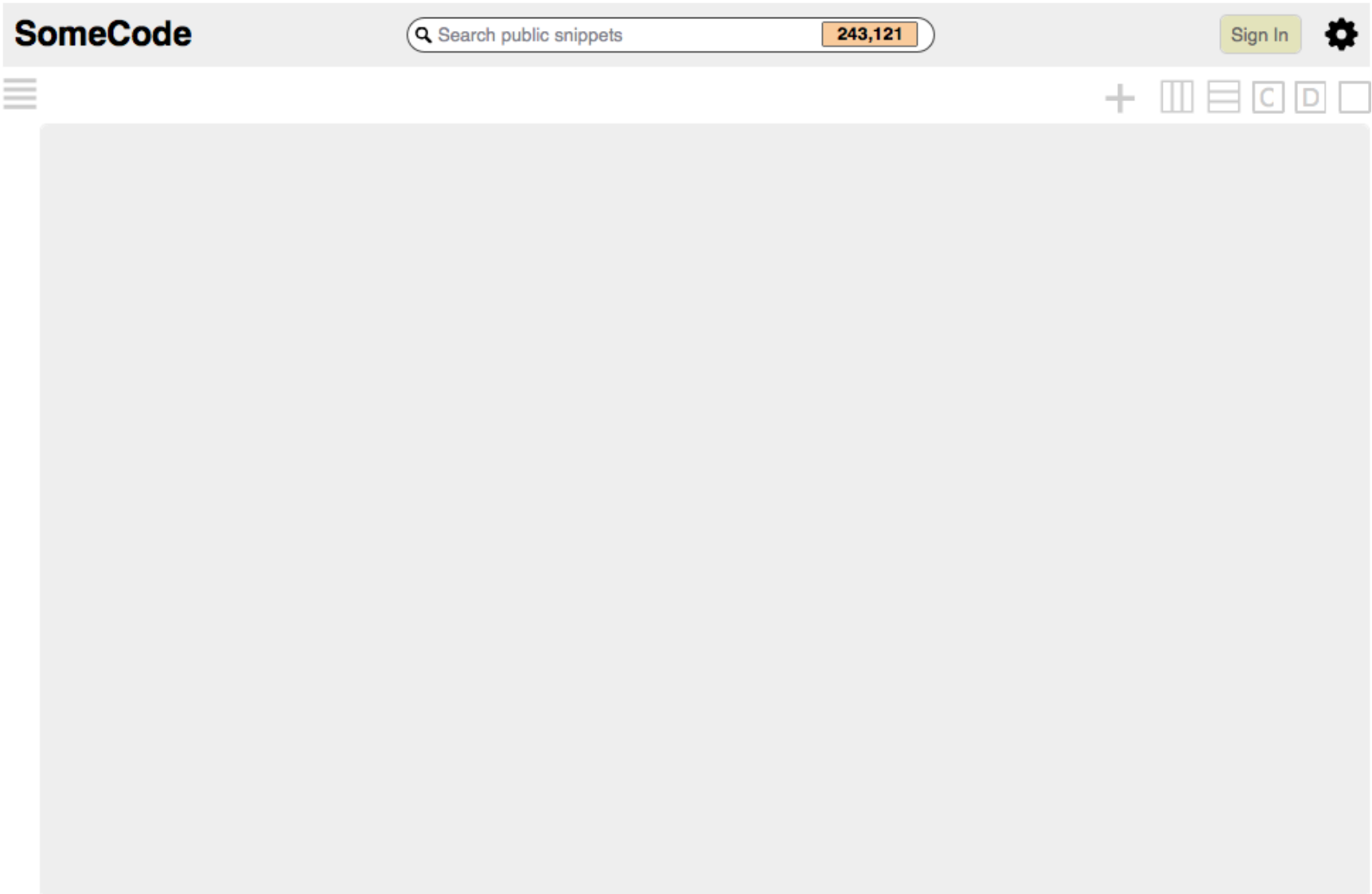
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Class definition

Classes are used to create user defined datatypes.

- By convention, they are capitalized.
- A class is a python object, and is a template used to create class instances. A class instance is created by instantiation (inst = class()).
- Classes can have docstrings.
- Use the pass statement to define a null class.

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class Dog:
    """ This is a docstring for the Dog class. """
    pass
```

```
>>> d = Dog()
>>> Dog.__doc__
>>> ' this is a docstring for the Dog class. '
```

Class variables

Class variables in python are shared among all of the class instances.

- If you change the class variable with the class object (class.attr = value), the value is changed in all existing and future class instances (Dog.sound = 'yip').
- If you change the variable through a class instance (big_dog.sound = 'growl') a local variable is created for that instance and added to the instance's dictionary.

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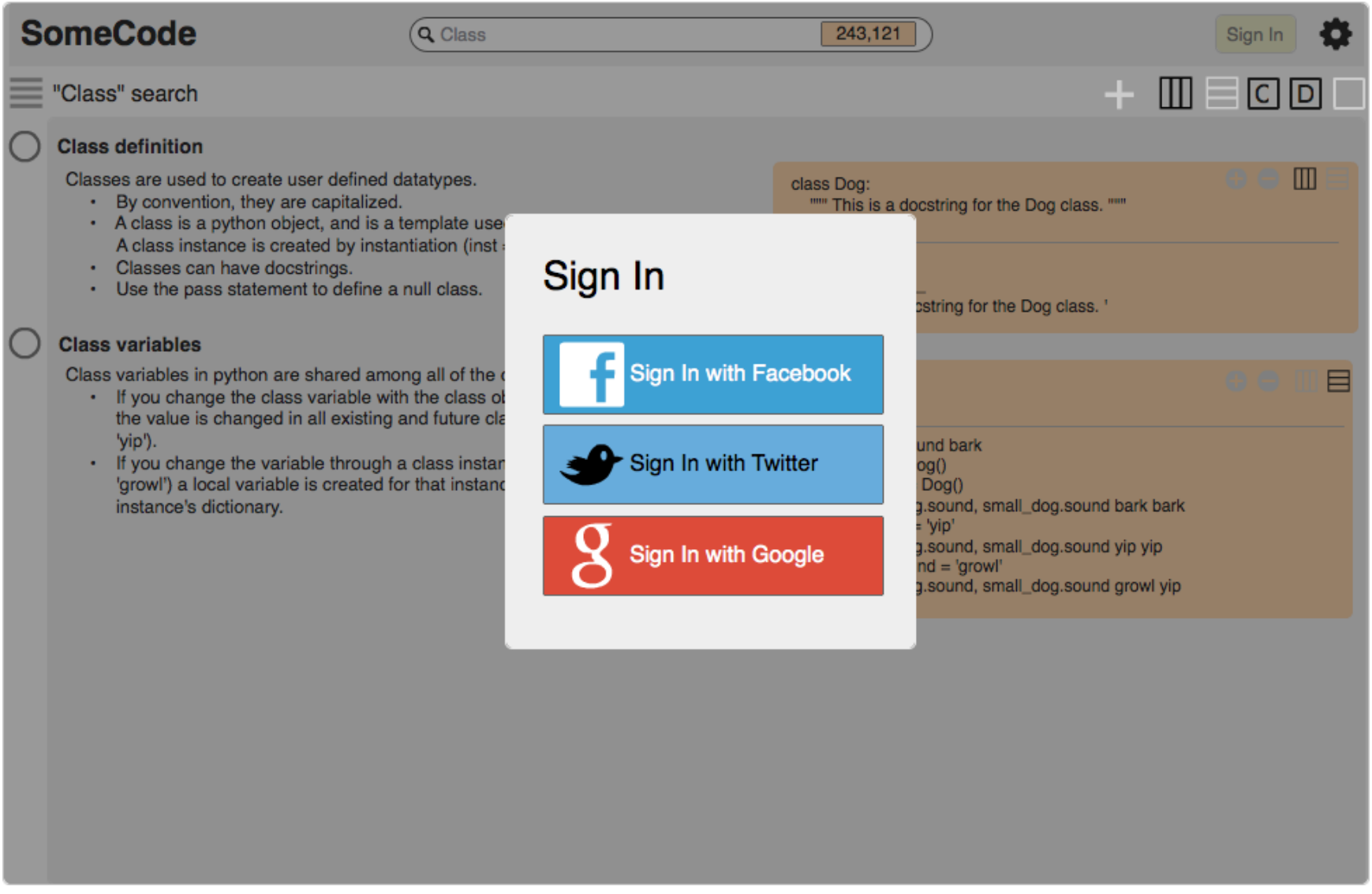
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bark bark
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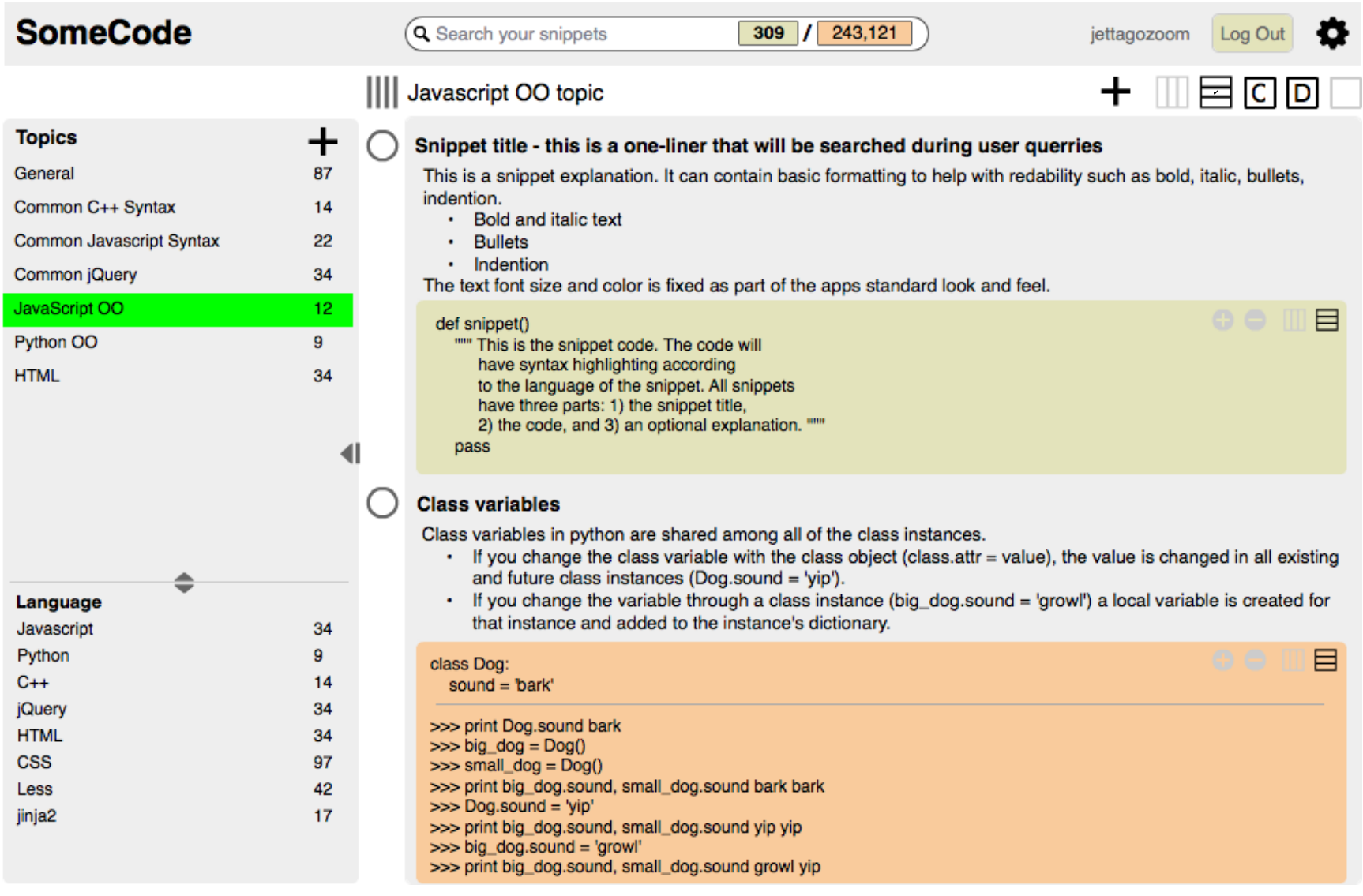
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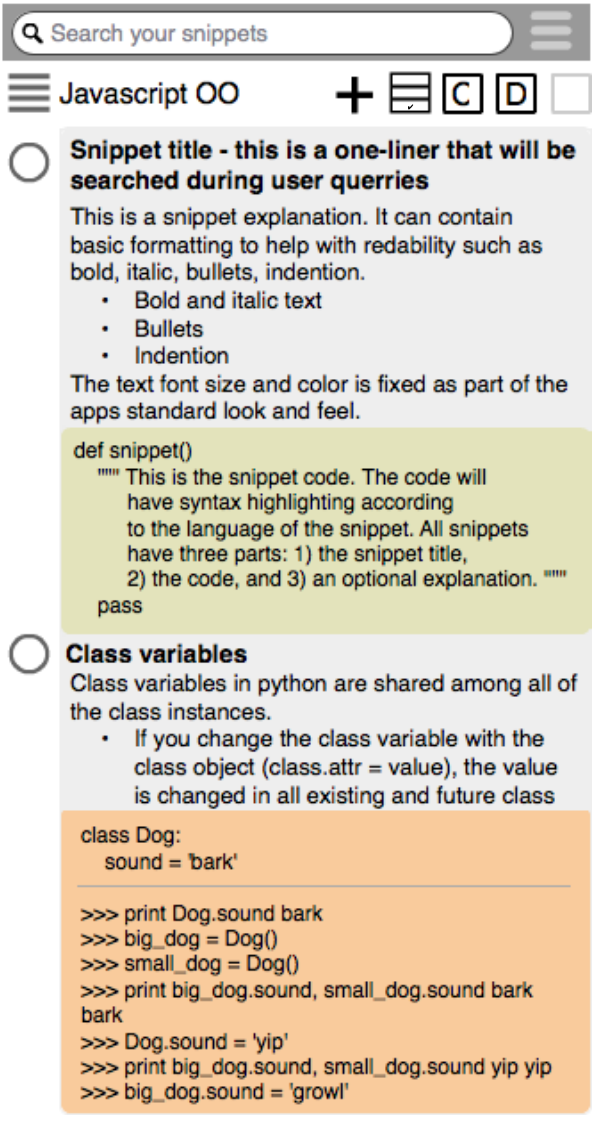
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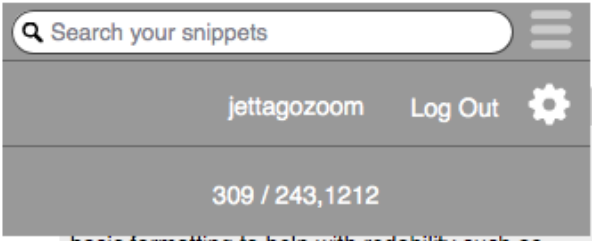

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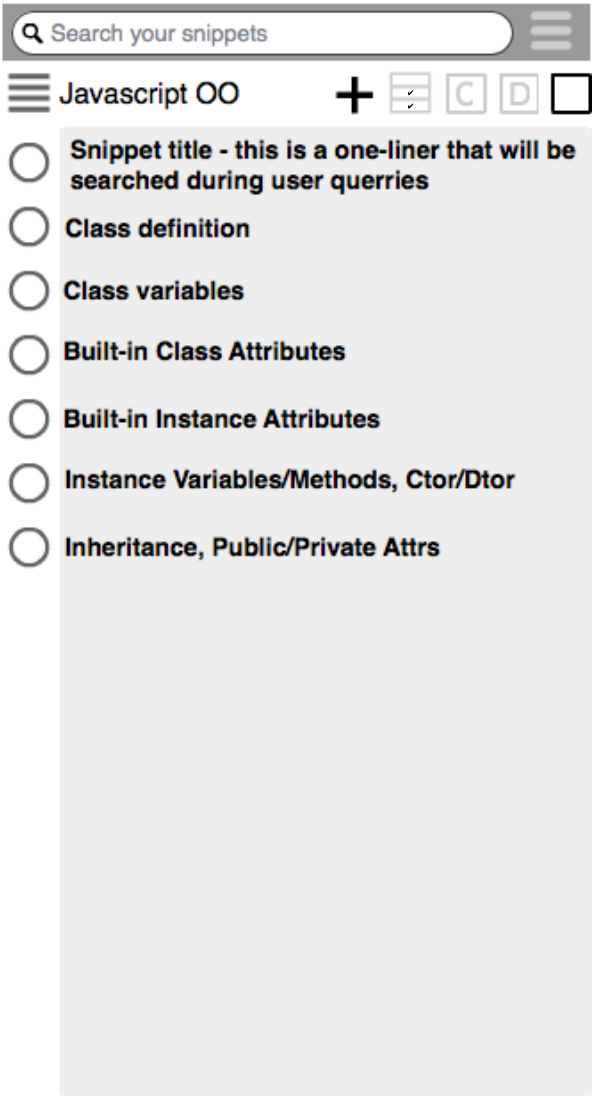
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Class variables
Built-in Class Attributes
Built-in Instance Attributes
Instance Variables/Methods, Ctor/Dtor
Inheritance, Public/Private Attrs