A

Modules

Model I/O

Output parsers

Enum parser

Enum parser

This notebook shows how to use an Enum output parser

```
from langchain.output_parsers.enum import EnumOutputParser
API Reference:
• EnumOutputParser from langchain.output_parsers.enum
from enum import Enum
class Colors(Enum):
    RED = "red"
    GREEN = "green"
    BLUE = "blue"
parser = EnumOutputParser(enum=Colors)
parser.parse("red")
    <Colors.RED: 'red'>
# Can handle spaces
parser.parse(" green")
    <Colors.GREEN: 'green'>
```

```
# And new lines
parser.parse("blue\n")
    <Colors.BLUE: 'blue'>
# And raises errors when appropriate
parser.parse("yellow")
   ValueError
                                              Traceback (most recent call
last)
    File ~/workplace/langchain/langchain/output_parsers/enum.py:25, in
EnumOutputParser.parse(self, response)
         24 try:
    ---> 25
                return self.enum(response.strip())
         26 except ValueError:
    File ~/.pyenv/versions/3.9.1/lib/python3.9/enum.py:315, in
EnumMeta.__call__(cls, value, names, module, qualname, type, start)
        314 if names is None: # simple value lookup
                return cls. new (cls, value)
    --> 315
        316 # otherwise, functional API: we're creating a new Enum type
    File ~/.pyenv/versions/3.9.1/lib/python3.9/enum.py:611, in
Enum. new (cls, value)
        610 if result is None and exc is None:
    --> 611 raise ve exc
        612 elif exc is None:
    ValueError: 'yellow' is not a valid Colors
    During handling of the above exception, another exception occurred:
```

```
OutputParserException
                                              Traceback (most recent call
last)
    Cell In[8], line 2
          1 # And raises errors when appropriate
    ---> 2 parser.parse("yellow")
    File ~/workplace/langchain/langchain/output_parsers/enum.py:27, in
EnumOutputParser.parse(self, response)
                return self.enum(response.strip())
         25
         26 except ValueError:
                raise OutputParserException(
    ---> 27
                    f"Response '{response}' is not one of the "
         28
                    f"expected values: {self._valid_values}"
         29
         30
                )
    OutputParserException: Response 'yellow' is not one of the expected
values: ['red', 'green', 'blue']
```