

[🏠](#) [■ 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
```

```
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
```

```
--> 315     return cls.__new__(cls, value)
      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)
      25     return self.enum(response.strip())
      26 except ValueError:
--> 27     raise OutputParserException(
      28         f"Response '{response}' is not one of the "
      29         f"expected values: {self._valid_values}"
      30     )
```

```
OutputParserException: Response 'yellow' is not one of the expected values: ['red', 'green', 'blue']
```