Serialization

This notebook walks through how to write and read an LLM Configuration to and from disk. This is useful if you want to save the configuration for a given LLM (e.g., the provider, the temperature, etc).

```
from langchain.llms import OpenAI
from langchain.llms.loading import load_llm
```

API Reference:

- OpenAI from `langchain.llms`
- load_llm from `langchain.llms.loading`

Loading

First, lets go over loading an LLM from disk. LLMs can be saved on disk in two formats: json or yaml. No matter the extension, they are loaded in the same way.

```
cat llm.json
```

```
{
    "model_name": "text-davinci-003",
    "temperature": 0.7,
    "max_tokens": 256,
    "top_p": 1.0,
    "frequency_penalty": 0.0,
    "presence_penalty": 0.0,
    "n": 1,
    "best_of": 1,
    "request_timeout": null,
    "_type": "openai"
}
```

```
llm = load_llm("llm.json")
```

```
cat llm.yaml
```

```
    _type: openai
    best_of: 1
    frequency_penalty: 0.0
    max_tokens: 256
    model_name: text-davinci-003
    n: 1
    presence_penalty: 0.0
    request_timeout: null
    temperature: 0.7
    top_p: 1.0
```

```
llm = load_llm("llm.yaml")
```

Saving

If you want to go from an LLM in memory to a serialized version of it, you can do so easily by calling the `.save` method. Again, this supports both json and yaml.

```
llm.save("llm.json")
```

```
llm.save("llm.yaml")
```