Loading settings
from enviroment variables
with Pydantic dataclasses

Without Pydantic


```python
from os import getenv

HOST = getenv("APP_HOST")
PORT = int(getenv("APP_PORT"))
START = bool(int(getenv("APP_START", 1)))

print("App host:", HOST)
print("App port:", PORT)
print("App start:", START)
```

With Pydantic

github.com/David-Lor

```python
from pydantic import BaseSettings

class MySettings(BaseSettings):
    host: str
    port: int
    start: bool = True

    class Config:
        env_prefix = "APP_"


settings = MySettings()

print("App host:", settings.host)
print("App port:", settings.port)
print("App start:", settings.start)
```

Without Pydantic

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from os import getenv

HOST = getenv("APP_HOST")
PORT = int(getenv("APP_PORT"))
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With Pydantic

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```

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Installing

```
pip install pydantic
conda install -c conda-forge pydantic
```

+ Support for loading from .env files:

```
pip install python-dotenv
conda install -c conda-forge python-dotenv
```

github.com/David-Lor

Loading settings from .env file

```python
# pip install python-dotenv

from pydantic import BaseSettings

class MySettings(BaseSettings):
    host: str
    port: int
    start: bool = True

    class Config:
        env_prefix = "APP_"
        env_file = ".env"


settings = MySettings()

print("App host:", settings.host)
print("App port:", settings.port)
print("App start:", settings.start)
```

Running app loading settings from...

CLI

```
APP_HOST=0.0.0.0 APP_PORT=8080 APP_START=1 ↵
python my_app.py
```

.env file

```
# .env file (inside same path as script/app):

APP_HOST=0.0.0.0
APP_PORT=8080
APP_START=1 *
```

* boolean values can be specified as strings (=true / =false)

Pros and Cons

- Validation

- Parsing

- Group settings in classes

- Definition of default settings

- Use built-in Typing support

- Performance?

- Extra dependency,
  extra size