

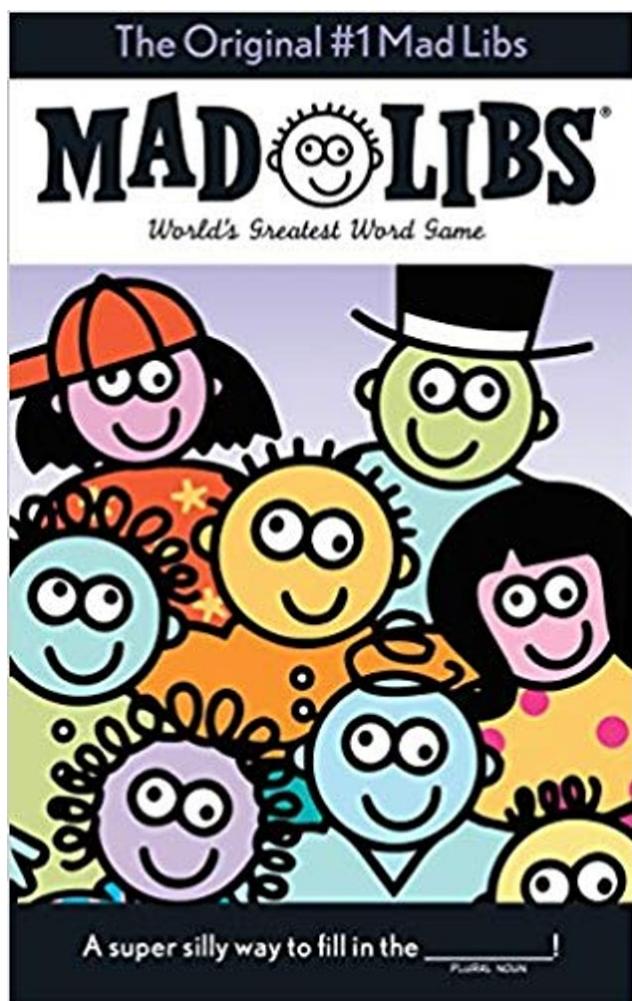
Jinja

[Download our](#) [Starter Code](#)

Flask Madlibs Exercise

In this exercise, you'll use Flask to make a Madlibs game.

About Madlibs



In Madlibs, you're asked a series of questions, like this:

```
plural_noun:turnips verb:juggle
```

Those are then plugged into a story template, like this:

```
I love to {verb} {plural_noun}.
```

To create a story like:

```
I love to juggle turnips.
```

Code

We've given you some code to help with the core non-Flask-specific Madlibs part:

stories.py

```
"""Madlibs Stories.""" class Story: """Madlibs story. To make a story, pass a
list of prompts, and the text of the template. >>> s = Story(["noun",
"verb"], ... "I love to {verb} a good {noun}.") To generate text from a
story, pass in a dictionary-like thing of {prompt: answer, promp:answer): >>>
ans = {"verb": "eat", "noun": "mango"} >>> s.generate(ans) 'I love to eat a
good mango.' """ def __init__(self, words, text): """Create story with words
and template text.""" self.prompts = words self.template = text def
generate(self, answers): """Substitute answers into text.""" text =
self.template for (key, val) in answers.items(): text = text.replace "{" +
key + "}", val) return text # Here's a story to get you started story =
Story( ["place", "noun", "verb", "adjective", "plural_noun"], """Once upon a
time in a long-ago {place}, there lived a large {adjective} {noun}. It loved
to {verb} {plural_noun}.""" )
```

This allows you to define Madlibs stories, and it can generate the resulting story from a set of answers. (It's also a nice example of a small but useful class!)

We've created a story, *story*, in that file.



Warning: Stop and explore here! Before starting to make a Flask app, make sure you understand how this **Story** class works — go into *ipython* and try out the **generate**

method on our sample story to get a feel for the text-generating process for Madlibs.

Challenge

Write a Flask app that imports the example story. Add a homepage for the application that shows a form prompting you for all the words in the story:

Madlibs

place:

noun:

verb:

adjective:

plural_noun:

Don't **hardcode** this, though — you want your form route to be able to ask for all of the questions required by the story, not for it to have a hard-coded form of asking these exact questions!

Add a route, */story*, that shows the resulting story for those answers, like this:

Your Story

Once upon a time in a long-ago condo, there lived a large frozen dragon. It loved to eat popsicles.

For now, don't worry about having template inheritance or a *base.html* — later, in further study, you can refactor this to use template inheritance.

Further Study

Use Template Inheritance

Make a ***base.html*** template of common parts of your templates (like the ***<html>***, ***<body>***, and other common things, and change your templates so they inherit from this base template.

Allow User to Pick Story

Add a feature where there are several different story templates, rather than just one.

The homepage should change to a drop-down menu of the story templates. When the user picks a template, it should go to the page that prompts for the list of story questions. That should, as before, go to the page that shows the generated story.

Add CSS

Still want more? Add some CSS to your madlibs, storing the CSS file in a ***static/*** directory and referencing it properly, so Flask will serve it up.

Additional Further Study

What? More time? Add some JS to your madlibs – perhaps you can validate the form (make sure every question is answered, all answers are at least 3 characters long, all lowercase, etc) before you're allowed to submit the form.

Even more, you say??? Try to add a page to your application where users can create