Self-processing Pages

It's inconvenient to have to re-submit a form if you want to run a program multiple times (e.g. to check a number of head/hat sizes).

A self-processing page is a single python program, which outputs the form if it hasn't received user data, and outputs the form with the result if it has received user data.

The action of the form is the file itself (head_to_hat.py in the example).

To check if the user has sent us some data, we check if the length of the form_data object is non-zero:

len(form_data) = the number of pieces of data sent
through the form

Note that a disabled input does not send any data with the form.

You can make a "sticky form" which shows the data you submitted the form with (i.e. keeps them on the screen) by also returning the inputs in the form when the program outputs it.

You can validate that the user's input is a number by wrapping a float() cast in a try/except clause.