

## Assignment 5: CGI scripts

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Due: Thursday, April 19th

We've seen a CGI script for finding out the amount of tax owed for a given taxable income (assuming filing single). In this assignment, you will extend this script to do a simple 1040EZ. We will imagine that this is a web site at the IRS and that the taxpayer can simply come to the site, fill in the boxes, and have their taxes electronically processed. A copy of the 1040 EZ form accompanies this assignment.

Your input/output should be a nicely formatted web page that approximates the look of the 1040EZ, so that users can print the resulting page and keep it for their records. They can also sign it and mail it to the IRS. Note that I understand the limitations of formatting in HTML, and I'm not looking for something of PDF quality.

Because none of the user's numbers will end up in the shell, you may not need to worry about tainting. Still, you should probably use a numeric regexp to grab just the numbers from each field. Some things to note:

- You should provide boxes for name and address, as in the 1040EZ. Your script should check that they are non-empty.
- You should check that the SSN number is filled in. If the spouse's SSN is filled in, you should process their form as married filing jointly, otherwise process it as single.
- The user is expected to fill in lines 1, 2, 3, and 7. A blank entry counts as zero. You should compute the rest.
- For line 5, you should only require the user to click yes/no in a radio box. You can compute the rest from there and whether there is a SSN for the spouse.
- Ignore the EIC; it's a pain. Assume zero.
- I will supply a subroutine in `TaxTables.pm` called `taxtables`. It takes two arguments, either "single" or "joint" and a taxable income. It returns the value from the tax table. It's really slick. You can look at it in `/usr/lib/perl5/site_perl/5.005/i386-linux/`

Possible enhancements (worth extra credit) you could do that would make the assignment nicer

- Handle the EIC. This is moderately difficult, and would probably mean referring them to a form that asks additional questions.
- Suggest something

Once you finish with the primary assignment, if you'd like to take on an extra credit, talk to me.