ECE 404 HW 11

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1 Programming Problem

For this programming assignment, we needed to create a spam filter using procmail and regex. We also wrote 4 recipes that would trap given junk mails based on the regex rules we defined. Recipe 1 deals with looking at the email addresses in the **From: header**. The regex for this recipe is the following:

```
:0  H
*  ^From:.*,
recipe_1
```

For Recipe 2, we look at Subject lines to see if they have any spam like keywords. For this, we use another regular expression that has a list of words to account for these spam mails.

```
:0  H
*  ^Subject:.*(Safe|career|diploma|professional|
Degree|Masters|bu([a-z]?)y|graduate|Graduate|PhD
|MBA|College|free|professional|office
|affordable|cheap|expertise|promotion|job
|depression|ACCREDITED|accredited|Hostway)
recipe_2
```

For Recipe 3, we use the same idea but look in the email body. For this, we use another regex value to keep track of these keywords, which is the following:

```
:0  B
*  (GOLD|GEMSTONE|Vegas-style|celebrate|Roulette|Poker|casino)
recipe_3
```

Finally for Recipe 4, we look at the content type of the junk mails and do so by adding compound rules to deal with multiple content types. The regex for this recipe is the following:

```
:0  HB:
*  ^Content-Type:  multipart/alternative
*  ^Content-Type:  text/plain
*  ^Content-Type:  text/html
recipe_4
```