Using **Vue** with no other third party libraries, write a simple implementation of a Plotter - which when given various drawing commands from within a text area, should be able draw them in real-time onto an SVG element.

The following functionality should be captured.

- Core Plotter Logic
  - SVG Element **Must Be** 250px wide and 250px high
  - The Input field **Must Be** a textarea element.
  - The plotting language should conform to the following grammar

    ```
    R <X Coordinate> <Y Coordinate> <Width> <Height> - Should Draw a rectar
    C <CX Coordinate> <CY Coordinate> <Radius> - Should Draw a circle with
    P <X1,Y1> <X2,Y2> <X3,Y3> ..... <Xn,Yn> - Should draw a polygon onto th
    ```

  - The Plotter should alert the user if the syntax of the plotting arguments is not well formed and should make an effort to tell them at which line in the text area the error had occurred
  - The colour of all SVG elements should be chosen at random.
- Bonus
  - Implement at least one other drawing command (State and describe the command in the readme.txt)

Examples
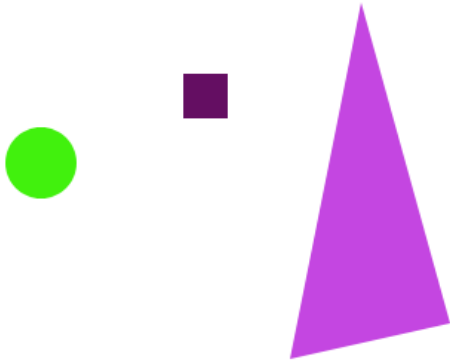
Basic #1

Input

```
r 0 0 100 100
c 100 100 20
```

Output

Complex #1

```
p 200,10 250,190 160,210
c 20 100 20
```

```
r 100 50 25 25
```

Please take care in presentation of the plotter. Simple un-styled code with plain HTML buttons is undesirable.

Your application should be compressed in one self contained archive with clear instructions on how to run the application in an accompanying readme.txt file. Your submission must run and look identical on either Google Chrome or Mozilla Firefox (Specify in readme).

END OF EXERCISE