

Interfaz Pronostico Estacional

Column

```
selectInput('estacion', 'Cuenca', colnames(redn))
```

Cuenca

Angostura Arenal Reventazon Ventanas Cachi Cariblanco Penas Pirris RioMacho Toro1

```
tex <- reactive(round(promedios[[input$estacion]][month2,]))
```

Ensamble

Row

```
renderPlotly(plot_ly(data.frame(deciles = deciles_nombre, valor = redn[,input$estacion] %>% unlist() %>%  
  x = ~deciles_nombre,  
  y = ~redn[,input$estacion] %>% unlist() %>% unname(),  
  type = 'bar',  
  name = 'Viridis',  
  color = 'Jet') %>%  
  layout(title = 'Resultados de Ensamble',  
    yaxis = list(title = 'Probabilidad'),  
    xaxis = list(title = 'Decil'))
```

Row

Ultimo Mes Medido

```
valueBox(month, icon = "fa-calendar-check", color = "light-blue")
```

2

Promedio Lluvia Mensual

```
renderValueBox(valueBox(tex(), icon = "fa-balance-scale-right", color = "light-blue"))
```

Mes Pronosticado

```
valueBox(month2, icon = "fa-arrow-alt-circle-right", color = "light-blue")
```

3

Modelos

Row

```
renderPlotly(ggplotly(ggplot(data = data_modelos[[input$estacion]] %>% mutate(obs = 1:10) %>% gather('modelo', 'probabilidad', values = values_f))  
  geom_line(aes(linetype=modelo,color=modelo))+  
  geom_point(aes(shape=modelo,color = modelo))+  
  scale_x_continuous(breaks = 1:10,labels=deciles_nombre)+  
  xlab('Decil')+  
  ylab('Probabilidad') ))
```

Row

Ultimo Mes Medido

```
valueBox(month, icon = "fa-calendar-check", color = "light-blue")
```

2

Promedio Lluvia Mensual

```
#tex <- reactive(round(promedios[[input$estacion]][month,]))  
renderValueBox(valueBox(tex(), icon = "fa-balance-scale-right", color = "light-blue"))
```

Mes Pronosticado

```
valueBox(month2, icon = "fa-arrow-alt-circle-right", color = "light-blue")
```

3

Conjunto

Row

```
p1<-plot_ly(data.frame(deciles = deciles_Reventazon,valor = redn[, 'Reventazon'] %>% unlist() %>% unname()),  
  x = ~as.numeric(deciles_Reventazon),  
  y = ~redn[, 'Reventazon'] %>% unlist() %>% unname(),  
  type = 'bar',  
  name = 'Reventazon',  
  marker_color = 'Jet'  
  ) %>%  
  layout(title = "Reventazon",  
    xaxis = list(type = "category",  
      categoryorder = "total ascending"  
    ))  
  
p2<-plot_ly(data.frame(deciles = deciles_Penas,valor = redn[, 'Penas'] %>% unlist() %>% unname()),  
  x = ~as.numeric(deciles_Penas),  
  y = ~redn[, 'Penas'] %>% unlist() %>% unname(),
```

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        type = 'bar',
        name = 'Penas',
        marker_color = 'black') %>%
layout(title = "Peñas Blancas",
        xaxis = list(type = "category",
                      categoryorder = "total ascending"
                      ))

p3<-plot_ly(data.frame(deciles = deciles_Arenal,valor = redn[, 'Arenal'] %>% unlist() %>% unname()),
            x = ~as.numeric(deciles_Arenal),
            y = ~redn[, 'Arenal'] %>% unlist() %>% unname(),
            type = 'bar',
            name = 'Arenal',
            marker_color = 'azure') %>%
layout(title = "Arenal",
        xaxis = list(type = "category",
                      categoryorder = "total ascending"
                      ))

p4<-plot_ly(data.frame(deciles = deciles_Angostura,valor = redn[, 'Angostura'] %>% unlist() %>% unname()),
            x = ~as.numeric(deciles_Angostura),
            y = ~redn[, 'Angostura'] %>% unlist() %>% unname(),
            type = 'bar',
            name = 'Angostura',
            marker_color = 'cornsilk') %>%
layout(title = "Angostura",
        xaxis = list(type = "category",
                      categoryorder = "total ascending"
                      ))

p5<-plot_ly(data.frame(deciles = deciles_Pirris,valor = redn[, 'Pirris'] %>% unlist() %>% unname()),
            x = ~as.numeric(deciles_Pirris),
            y = ~redn[, 'Pirris'] %>% unlist() %>% unname(),
            type = 'bar',
            name = 'Pirris',
            marker_color = 'lavender') %>%
layout(title = "Pirris",
        xaxis = list(type = "category",
                      categoryorder = "total ascending"
                      ))

p6<-plot_ly(data.frame(deciles = deciles_Cariblanco,valor = redn[, 'Cariblanco'] %>% unlist() %>% unname()),
            x = ~as.numeric(deciles_Cariblanco),
            y = ~redn[, 'Cariblanco'] %>% unlist() %>% unname(),
            type = 'bar',
            name = 'Cariblanco',

```

```

        marker_color = 'gainsboro') %>%
layout(title = "Cariblanco",
        xaxis = list(type = "category",
                      categoryorder = "total ascending"
                      ))

p7<-plot_ly(data.frame(deciles = deciles_Cachi,valor = redn[, 'Cachi'] %>% unlist() %>% unname()),
            x = ~as.numeric(deciles_Cachi),
            y = ~redn[, 'Cachi'] %>% unlist() %>% unname(),
            type = 'bar',
            name = 'Cachi',
            marker_color = 'burlywood') %>%
layout(title = "Cachi",
        xaxis = list(type = "category",
                      categoryorder = "total ascending"
                      ))

p8<-plot_ly(data.frame(deciles = deciles_Ventanas,valor = redn[, 'Ventanas'] %>% unlist() %>% unname()),
            x = ~as.numeric(deciles_Ventanas),
            y = ~redn[, 'Ventanas'] %>% unlist() %>% unname(),
            type = 'bar',
            name = 'Ventanas',
            marker_color = 'aqua') %>%
layout(title = "Ventanas",
        xaxis = list(type = "category",
                      categoryorder = "total ascending"
                      ))

p9<-plot_ly(data.frame(deciles = deciles_Toro1,valor = redn[, 'Toro1'] %>% unlist() %>% unname()),
            x = ~as.numeric(deciles_Toro1),
            y = ~redn[, 'Toro1'] %>% unlist() %>% unname(),
            type = 'bar',
            name = 'Toro1',
            marker_color = 'springgreen') %>%
layout(title = "Toro1",
        xaxis = list(type = "category",
                      categoryorder = "total ascending"
                      ))

p10<-plot_ly(data.frame(deciles = deciles_RioMacho,valor = redn[, 'RioMacho'] %>% unlist() %>% unname()),
            x = ~as.numeric(deciles_RioMacho),
            y = ~redn[, 'RioMacho'] %>% unlist() %>% unname(),
            type = 'bar',
            name = 'RioMacho',
            marker_color = 'thistle') %>%
layout(title = "RioMacho",
        xaxis = list(type = "category",
                      categoryorder = "total ascending"
                      ))

```

```
renderPlotly(subplot(p1,p2,p3,p4,p5,p6,p7,p8,p9,p10,nrows = 5,margin = 0.04))
```