Visualizaciones Preliminares: Departamento de Justicia

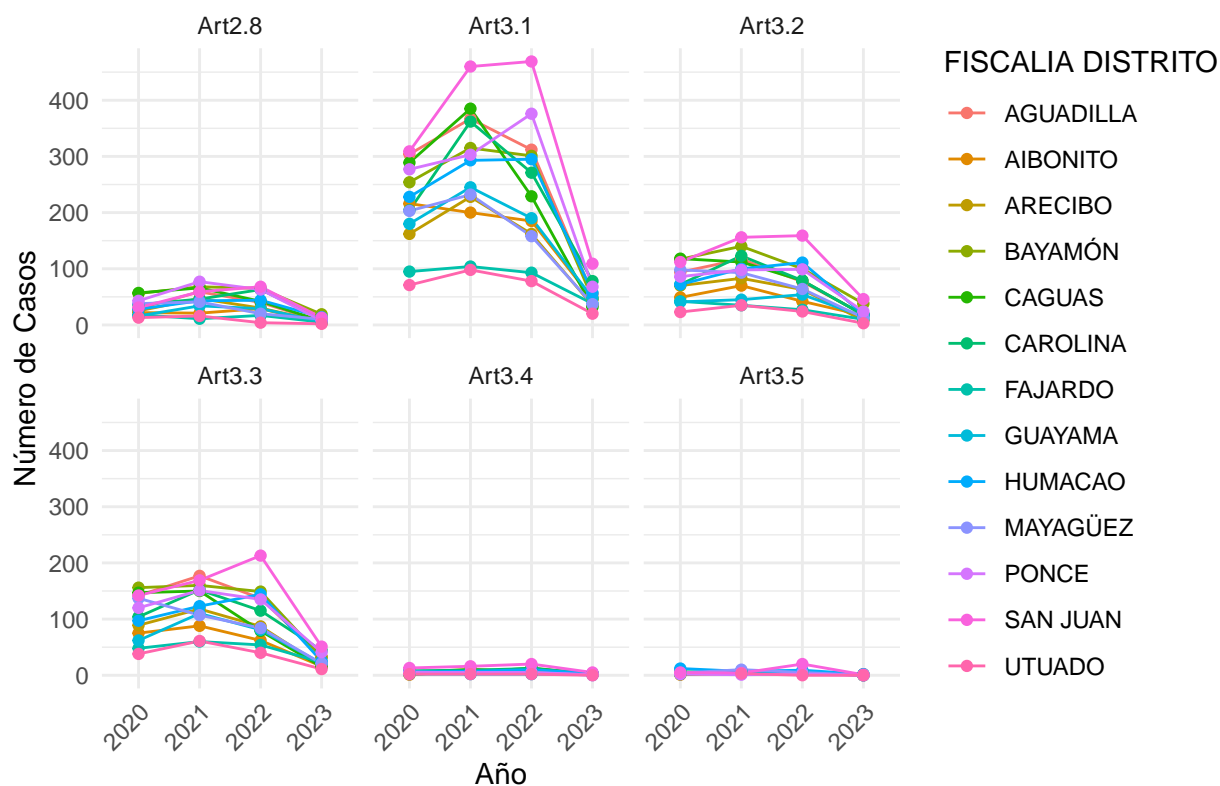### Félix A Báez Santiago

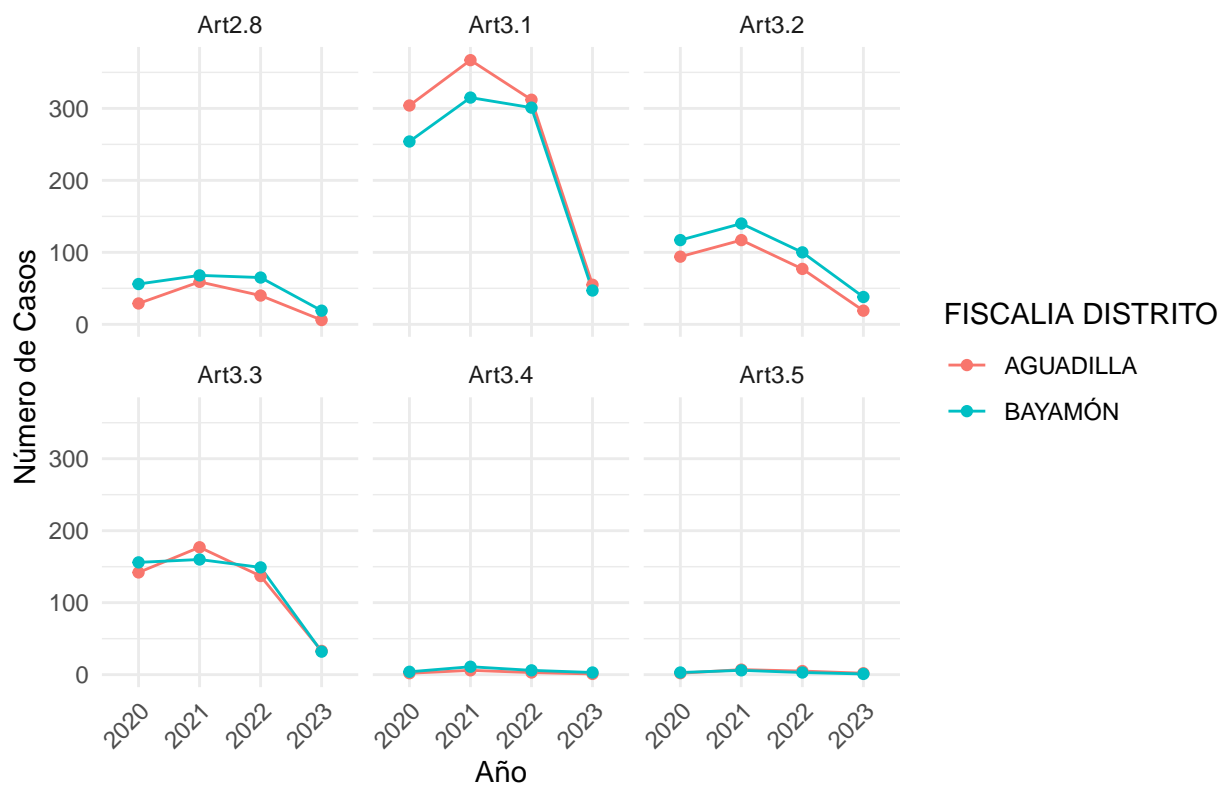### 2024-01-23

Funcion para manejar datos missing

Delitos a la Ley 54, casos radicados por jurisdicción y articulo de la Ley de Violencia Domestica, año 2020 a *2023

```
## # A tibble: 312 x 4
##    `FISCALIA DISTRITO` Año   Delito Casos
##    <chr>               <fct> <chr> <dbl>
##  1 AGUADILLA           2020  Art2.8    29
##  2 AGUADILLA           2020  Art3.1   304
##  3 AGUADILLA           2020  Art3.2    94
##  4 AGUADILLA           2020  Art3.3   142
##  5 AGUADILLA           2020  Art3.4     2
##  6 AGUADILLA           2020  Art3.5     2
##  7 AIBONITO            2020  Art2.8    22
##  8 AIBONITO            2020  Art3.1   216
##  9 AIBONITO            2020  Art3.2    49
## 10 AIBONITO            2020  Art3.3    75
## # ... with 302 more rows
```
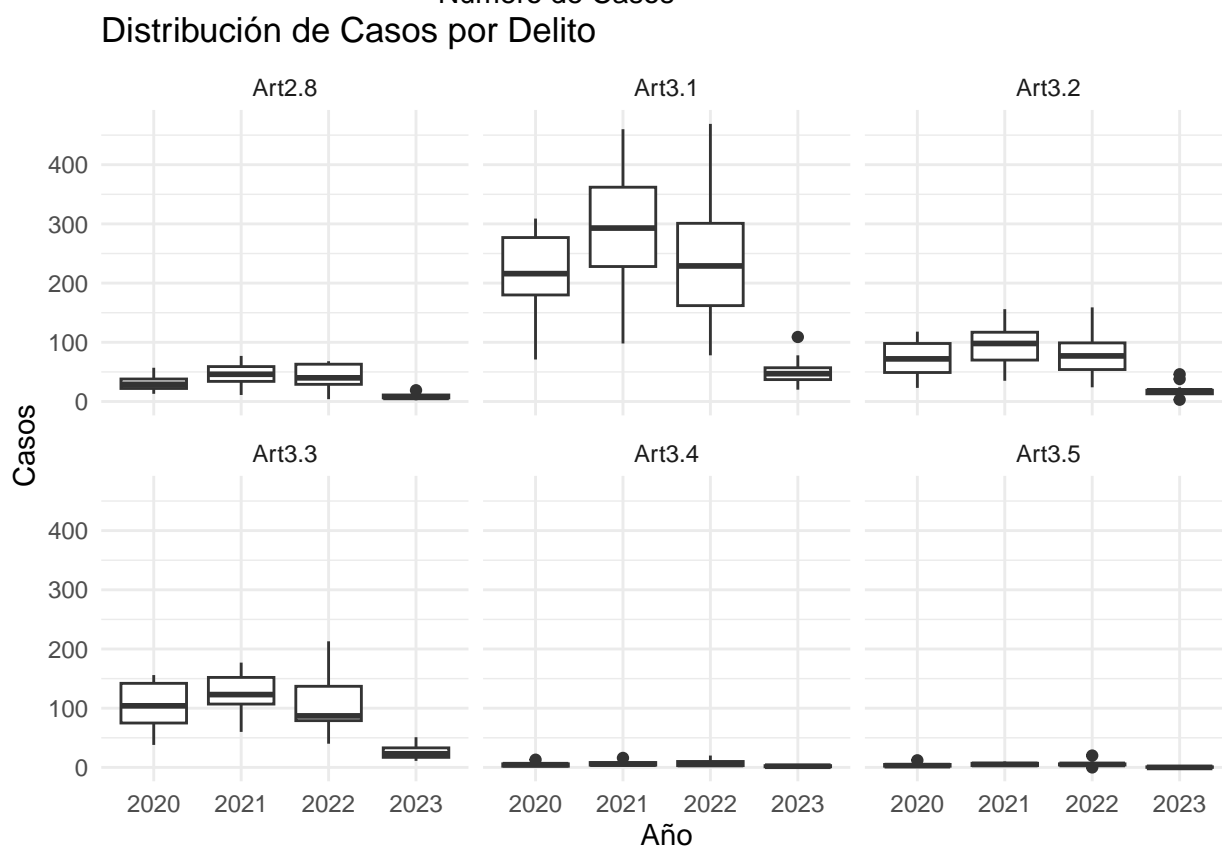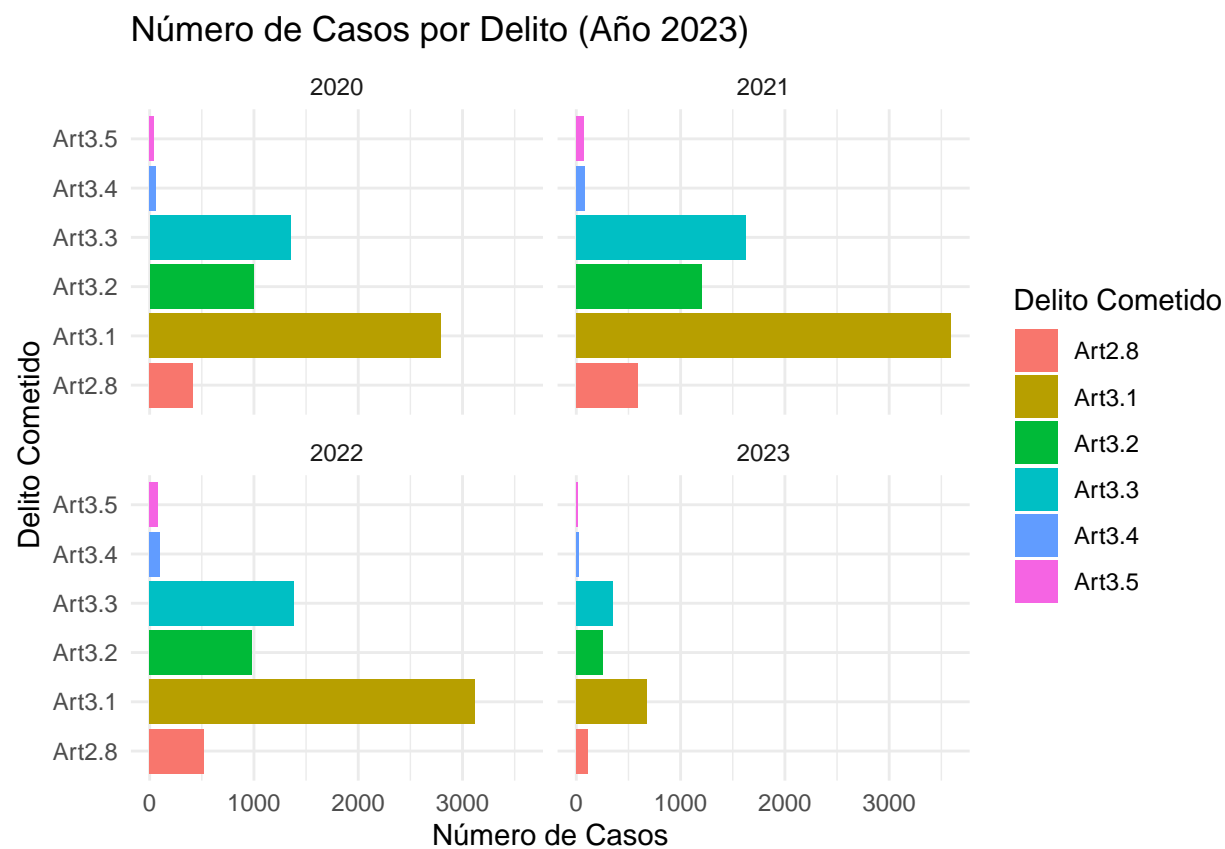
Tendencia de Casos a lo Largo del Tiempo por Fiscalía de Distrito

Tendencia de Casos a lo Largo del Tiempo por Fiscalía de Distrito

Número de Casos por Delito (Año 2023)

Distribución de Casos por Delito

Pruebas Estadisticas

```
##
## Call:
## lm(formula = Casos ~ as.factor(Año), data = subset(deliDF, Delito ==
##     "Art2.8"))
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -35.538  -9.577  -1.077   7.365  31.769
##
## Coefficients:
##                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)          31.692      4.528   7.000 7.36e-09 ***
## as.factor(Año)2021   13.538      6.403   2.114 0.039702 *
## as.factor(Año)2022    7.846      6.403   1.225 0.226409
## as.factor(Año)2023  -23.231      6.403  -3.628 0.000691 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 16.32 on 48 degrees of freedom
## Multiple R-squared:  0.4433, Adjusted R-squared:  0.4086
## F-statistic: 12.74 on 3 and 48 DF,  p-value: 3.001e-06

##
## Call:
## lm(formula = Casos ~ as.factor(Año), data = subset(deliDF, Delito ==
##     "Art3.1"))
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -178.308  -45.308   -4.038   55.673  229.077
##
## Coefficients:
##                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)          214.77      24.02   8.942 8.63e-12 ***
## as.factor(Año)2021    61.54      33.97   1.812   0.0763 .
## as.factor(Año)2022    25.15      33.97   0.741   0.4626
## as.factor(Año)2023  -163.23      33.97  -4.806 1.56e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 86.6 on 48 degrees of freedom
## Multiple R-squared:  0.5167, Adjusted R-squared:  0.4865
## F-statistic:  17.1 on 3 and 48 DF,  p-value: 1.085e-07

##
## Call:
## lm(formula = Casos ~ as.factor(Año), data = subset(deliDF, Delito ==
##     "Art3.2"))
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -57.846 -13.192  -0.577  19.750  83.769
##
```

```
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)           76.462      8.707   8.782 1.49e-11 ***
## as.factor(Año)2021    16.385     12.313   1.331    0.190
## as.factor(Año)2022    -1.231     12.313  -0.100    0.921
## as.factor(Año)2023   -57.385     12.313  -4.660 2.54e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 31.39 on 48 degrees of freedom
## Multiple R-squared:  0.4614, Adjusted R-squared:  0.4277
## F-statistic: 13.71 on 3 and 48 DF,  p-value: 1.385e-06

##
## Call:
## lm(formula = Casos ~ as.factor(Año), data = subset(deliDF, Delito ==
##     "Art3.3"))
##
## Residuals:
##    Min    1Q Median    3Q    Max
## -66.39 -19.90  -3.00  27.40 106.85
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)          104.385     10.362  10.074 1.99e-13 ***
## as.factor(Año)2021    20.692     14.654   1.412    0.164
## as.factor(Año)2022     1.769     14.654   0.121    0.904
## as.factor(Año)2023   -77.462     14.654  -5.286 3.02e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 37.36 on 48 degrees of freedom
## Multiple R-squared:  0.5241, Adjusted R-squared:  0.4943
## F-statistic: 17.62 on 3 and 48 DF,  p-value: 7.537e-08

##
## Call:
## lm(formula = Casos ~ as.factor(Año), data = subset(deliDF, Delito ==
##     "Art3.4"))
##
## Residuals:
##     Min     1Q  Median     3Q     Max
## -5.0000 -2.3750 -0.9231  1.1667 13.0000
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)            4.833      1.103   4.382 6.76e-05 ***
## as.factor(Año)2021     1.667      1.560   1.068   0.2909
## as.factor(Año)2022     2.167      1.530   1.416   0.1634
## as.factor(Año)2023    -2.910      1.530  -1.903   0.0634 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 3.821 on 46 degrees of freedom
##   (2 observations deleted due to missingness)
```

```
## Multiple R-squared:  0.2315, Adjusted R-squared:  0.1814
## F-statistic: 4.619 on 3 and 46 DF,  p-value: 0.006601

##
## Call:
## lm(formula = Casos ~ as.factor(Año), data = subset(deliDF, Delito ==
##      "Art3.5"))
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -5.6923 -1.6923 -0.5385  0.9615 14.3077
##
## Coefficients:
##                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)           4.000      0.949   4.215 0.000115 ***
## as.factor(Año)2021    1.154      1.289   0.895 0.375522
## as.factor(Año)2022    1.692      1.289   1.312 0.195877
## as.factor(Año)2023   -3.462      1.289  -2.685 0.010063 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 3.147 on 46 degrees of freedom
##   (2 observations deleted due to missingness)
## Multiple R-squared:  0.3145, Adjusted R-squared:  0.2698
## F-statistic: 7.033 on 3 and 46 DF,  p-value: 0.000545

##
## Call:
## lm(formula = Casos ~ as.factor(Año), data = deliDF)
##
## Residuals:
##    Min     1Q Median     3Q    Max
## -91.96 -62.05 -15.08  21.20 390.08
##
## Coefficients:
##                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)          75.427      9.575   7.877 5.98e-14 ***
## as.factor(Año)2021   17.534     13.453   1.303    0.193
## as.factor(Año)2022    3.496     13.410   0.261    0.794
## as.factor(Año)2023  -57.350     13.410  -4.277 2.55e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 82.92 on 304 degrees of freedom
##   (4 observations deleted due to missingness)
## Multiple R-squared:  0.1086, Adjusted R-squared:  0.09985
## F-statistic: 12.35 on 3 and 304 DF,  p-value: 1.206e-07
```

Registro de personas convictas por violencia doméstica, según el municipio y el sexo (acumulado desde el 2018 a *2023)

```
## # A tibble: 77 x 10
##    Pueblo       countyfp cntyidfp Casos   lng   lat     M     F Desconoc~1 Total
##    <chr>           <dbl>    <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>      <dbl> <dbl>
## 1 Adjuntas            1    72001     7  18.2 -66.8     7     0          0     7
```

```
##  2 Aguada          3   72003   16  18.4 -67.2    16    0        0    16
##  3 Aguadilla       5   72005   30  18.5 -67.1    30    0        1    31
##  4 Aguas Buenas     7   72007    4  18.3 -66.1     4    0        0     4
##  5 Aibonito        9   72009   32  18.1 -66.3    32    4        0    36
##  6 Añasco         11   72011   19  18.3 -67.1    19    4        0    23
##  7 Arecibo        13   72013   28  18.4 -66.7    28    1        0    29
##  8 Arroyo         15   72015    8  18.0 -66.1     8    0        0     8
##  9 Barceloneta    17   72017    9  18.4 -66.6     9    0        0     9
## 10 Barranquitas   19   72019   27  18.2 -66.3    27    1        0    28
## # ... with 67 more rows, and abbreviated variable name 1: Desconocido
```