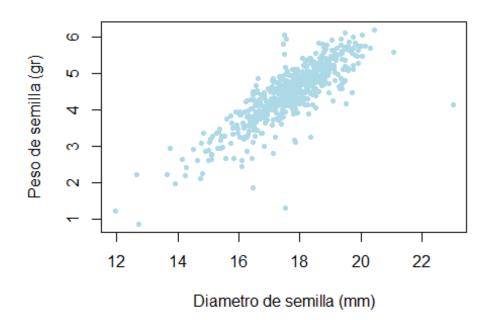
ClaseS14D1.R

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#lm funcion que me ayuda a determinar alfa y beta de la regresion.

lm(semilla\$Peso_gr ~ semilla\$Diametro_mm)

```
##
## Call:
## lm(formula = semilla$Peso_gr ~ semilla$Diametro_mm)
## Coefficients:
##
           (Intercept) semilla$Diametro mm
               -4.9339
##
                                     0.5318
sem.lm <- lm(semilla$Peso_gr ~ semilla$Diametro_mm)</pre>
summary(sem.lm)
##
## Call:
## lm(formula = semilla$Peso gr ~ semilla$Diametro mm)
##
## Residuals:
##
        Min
                  10 Median
                                    3Q
                                            Max
## -3.15238 -0.19690 0.02148 0.25270 1.71305
## Coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
                                                     <2e-16 ***
                       -4.93388
                                   0.25604 -19.27
## (Intercept)
                                             36.76
                                                     <2e-16 ***
## semilla$Diametro_mm 0.53178
                                   0.01446
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.4373 on 597 degrees of freedom
## Multiple R-squared: 0.6936, Adjusted R-squared: 0.6931
## F-statistic: 1352 on 1 and 597 DF, p-value: < 2.2e-16
semilla$yprima <- -4.934+0.532*semilla$Diametro_mm</pre>
#Agregar la linea de tendencia central usando abline.
plot(semilla$Diametro_mm, semilla$Peso_gr, pch =20,col="lightblue",
     xlab = "Diametro de semilla (mm)",
     ylab = "Peso de semilla (gr)",
     abline(sem.lm, col="blue"))
text(18, 2, "Y=-4.934+0.532*x")
text(19, 1.5, "Regresion lineal")
text(19, 1.1, "r^2=0.69 *")
```

