Syntax for Plotting Text in ${\sf R}$

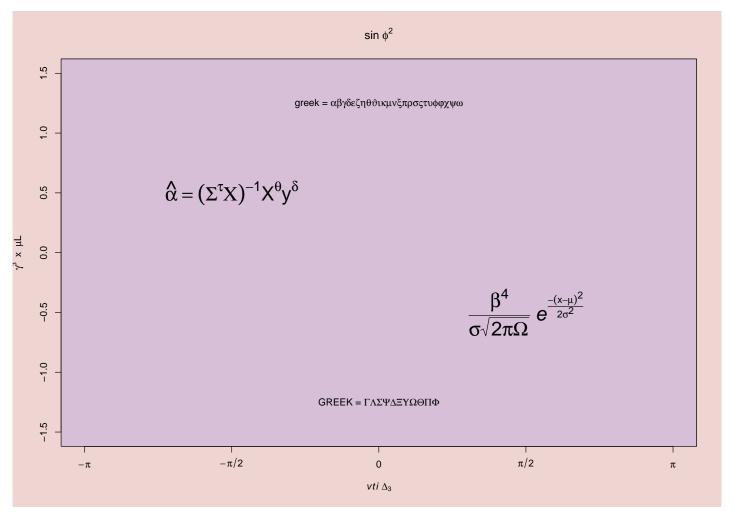


Figure 1: Syntax examples for plotting text in R for axes, labels, and titles.

```
function(f, h = 7, w = 10, s = 1.2) {
pdf(file = f, height = h * s, width = w * s, useDingbats = FALSE,
     title = basename(f))
par(bg = "mistyrose2")
# Titles #
main_name <- expression(paste(plain(sin), " ", phi^2))</pre>
xlab_name <- expression(paste(italic(vti), " ", Delta[3]))</pre>
ylab_name <- expression(gamma^3*" x "*mu*"L")</pre>
# Make Plot #
plot(0, 0, type = "n", xlab = xlab_name, ylab = ylab_name, main = main_name,
     xlim = c(-pi, pi), ylim = c(-1.5, 1.5), axes = FALSE)
 on.exit(dev.off())
box()
usr <- par("usr")</pre>
rect(usr[1L], usr[3L], usr[2L], usr[4L], col = "thistle")
# Axes #
 axis(1, at = c(-pi, -pi/2, 0, pi/2, pi),
      labels = expression(-pi, -pi/2, 0, pi/2, pi))
axis(2)
# Add Text #
text(-pi/2, 0.5,
      expression(hat(alpha) == (Sigma^tau*Chi)^{-1} * X^theta * y^delta),
text(pi/2, -0.5,
     expression(
       paste(frac(beta^4, sigma*sqrt(2*pi*Omega)), " ",
             italic(e)^{frac(-(x-mu)^2, 2*sigma^2)})),
      cex = 2
 )
text(0, 1.25,
      expression(
        paste("greek = ", alpha*beta*gamma*delta*epsilon*zeta*eta*
              theta*vartheta*iota*kappa*mu*nu*xi*pi*rho*sigma*
              varsigma*tau*upsilon*phi*varphi*chi*psi*omega))
text(0, -1.25,
      expression(
        paste("GREEK = ", Gamma*Lambda*Sigma*Psi*Delta*Xi*
              Upsilon*Omega*Theta*Pi*Phi))
)
```

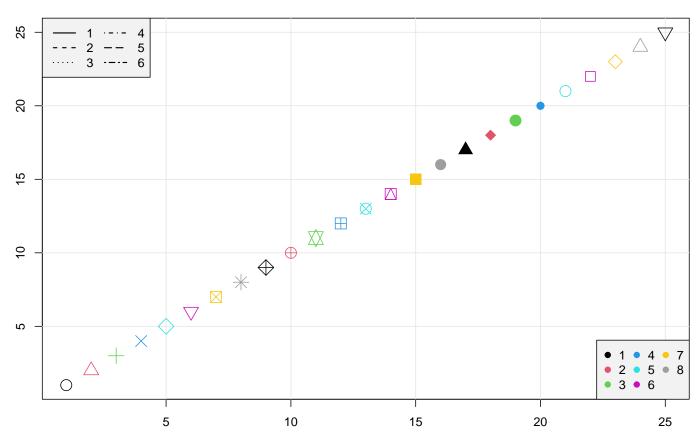


Figure 2: Basic numeric plotting codes used by R. For points, the symbols are accessed using the pch= and range $1 \to 25$ (some are redundant). Line types are shown in the legend, are accessed using the lty=, and range $1 \to 6$. Color codes range from $1 \to 8$ and are accessed using the col=.