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library(readxl)

library(dplyr)

library(ggplot2)

lines <- read_excel("C:/R/Line.xlsx")

points <- read_excel("C:/R/Points.xlsx")

points <- points |> filter(name %in% c("A", "B", "C", "D", "E", "F", "G", "H"))|>

mutate(name = factor(name, levels = c("A", "B", "C", "D", "E", "F", "G", "H")))

lines <- lines |> filter(name %in% c("+10%", "fit", "-10%")) |>
  mutate(name = factor(name, levels =c("+10%", "fit", "-10%")))

PropertyA <- ggplot(mapping = aes(x=Ave1, y=Ave3, group=name)) +
  geom_line(aes(linetype= name), data = lines) +
  scale_linetype_manual(values=c("dashed", "solid", "dashed"), labels = ~ gsub("_", " ", .x)) +
  geom_point(aes(color = name), data = points, size = 2) +
  labs(title="Property A", x = "Ave1", y = "Ave3", linetype = "Fit", color = "Tablets") +
  scale_color_manual(values = c("#5B9BD5", "#ED7D31", "#A5A5A5", "#FFC000", "#4472C4",
"#70AD47", "#255E91", "#9E480E"), labels = ~ gsub("_", " ", .x)) +
  theme(legend.margin = margin(6, 6, 6, 6), legend.key = element_rect(fill = "white"))

PropertyA

PropertyB <- ggplot(mapping = aes(x=Ave2, y=Ave3, group=name)) +
  geom_line(aes(linetype= name), data = lines) +
  scale_linetype_manual(values=c("dashed", "solid", "dashed"), labels = ~ gsub("_", " ", .x)) +
  geom_point(aes(color = name), data = points, size = 2) +
  labs(title="Property B", x = "Ave2", y = "Ave3", linetype = "Fit", color = "Tablets") +
  scale_color_manual(values = c("#5B9BD5", "#ED7D31", "#A5A5A5", "#FFC000", "#4472C4",
"#70AD47", "#255E91", "#9E480E"), labels = ~ gsub("_", " ", .x)) +
  theme(legend.margin = margin(6, 6, 6, 6), legend.key = element_rect(fill = "white"))

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PropertyB

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PropertyC <- ggplot(mapping = aes(x=Ave1, y=Ave2, group=name)) +  
  geom_line(aes(linetype= name), data = lines) +  
  scale_linetype_manual(values=c("dashed", "solid", "dashed"), labels = ~ gsub("_", " ", .x)) +  
  geom_point(aes(color = name), data = points, size = 2) +  
  labs(title="Property C", x = "Ave1", y = "Ave2", linetype = "Fit", color = "Tablets") +  
  scale_color_manual(values = c("#5B9BD5", "#ED7D31", "#A5A5A5", "#FFC000", "#4472C4",  
"#70AD47", "#255E91", "#9E480E"), labels = ~ gsub("_", " ", .x)) +  
  theme(legend.margin = margin(0, 0, 0, 0), legend.key = element_rect(fill = "white" ))
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PropertyC