CHEATSHEET: : from Pandas to base R to Tidyverse

	Pandas	Base R	Tidyverse
Extract variables	iris[["Species", "Petal.Width"]]	select(iris, Species, Petal.Width)	iris[, c("Species", "Petal.Width")]
Make new variables	Iris['Petal.Ratio'] =iris['Petal.Length']/iris['Petal.Width']	iris$Petal.Ratio <- iris$Petal.Length/iris$Petal.Width	mutate(iris, Petal.Ratio = Petal.Length/Petal.Width)
Extract observations	iris[iris['Petal.Width']>0.5][iris['Species']=='setosa']	iris[iris$Petal.Width > 0.5 & iris$Species == "setosa",]	filter(iris, Petal.Width > 0.5 & Species == "setosa")
Arrange observations	iris.sort_values(by = ['Species', 'Petal.Width'])	iris[order(iris$Species, iris$Petal.Width) ,]	arrange(iris, Species, Petal.Width)
Summarize observations	iris[['Petal.Length', 'Sepal.Length']].describe()	data.frame(Petal.Length.mean = mean(iris$Petal.Length), Petal.Length.sd = sd(iris$Petal.Length), Sepal.Length.mean = mean(iris$Sepal.Length), Sepal.Length.sd = sd(iris$Sepal.Length))	summarise_at(iris, .vars = c("Petal.Length", "Sepal.Length"), .funs = c("mean", "sd"))
Reshaping data into longer form	pd.melt(iris, id_vars='id', value_vars=['Sepal.Length', 'Sepal.Width', 'Petal.Length', 'Petal.Width'])	reshape(iris, varying = c("Sepal.Length", "Sepal.Width", "Petal.Length", "Petal.Width"), timevar = "trait", idvar = "id", v.names = "measurement", direction = "long")	gather(iris, key = "trait", value = "measurement", Sepal.Length:Petal.Width)
Reshaping data into wider form	Indometh.pivot(index='Subject', columns='time', values='conc')	reshape(Indometh, v.names = "conc", idvar = "Subject", timevar = "time", direction = "wide")	spread(Indometh, key = "time", value = "conc")
Combine tables	band_members.merge(band_instruments2, left_on='name', right_on='artist')	merge(band_members, band_instruments2, by.x = "name", by.y = "artist")	inner_join(band_members, band_instruments2, by = c("name" = "artist"))