

Data Manupulate Cheat Sheet -- R vs Python

Global Setting		Load & Write Data	
install.packages()	import()	read.csv()	pd.read_csv()
getwd()	os.getcwd()	write.csv(, row.name=F)	df.to_csv(, index=False)
setwd()	os.chdir()	read.table()	pd.read.table()
set.seed()	np.random.seed()	write.xlsx()	df.to_excel()
ls()	os.listdir()		Data Type
rm()	os.remove()	as.numeric()	as.numeric()
Data Slicing		as.character()	as.character()
df[1:10,]	df.iloc[0:10,]	as.factor()	as.factor()
df[, 1:3]	df.iloc[:, 1:3]	as.data.frame()	as.data.frame()
df[, col]	df.loc[:, col]	as.Date()	as.Date()
df\$col	df.col	Basic Function	
df[df\$col in c(),]	df.loc[df.col.isin([])]	seq()	range()
df[df\$col == value]	df.loc[df.col == value]	rep()	np.repeat()
df[df\$col == value, col] = value	df.loc[df.col == value,] = value	length()	len()
df[, -1]	df.drop(df.columns[1], 1)	table()	pd.crosstab()
df[, c(col1, col2)] = NULL	df.drop([col1, col2], 1)	unique()	set()
Data Wrangling		class()	type()
df[order(col),]	df.sort values([col])	strsplit()	str.split()
df[order(-col),]	df.sort_values([col], ascending=[0])	is.null()	pd.isnull()
colnames()	df.columns.values()	is.na(j)	pd.isnan()
row.names()	df.index()	paste(A, B, sep='_')	%s_%s' %(Å, B)
rbind()	pd.concat([,], axis=0)	setdiff(A, B)	[x for x in A if x not in B]
cbind()	pd.concat([,], axis=1)	grep()	re.findall()
str()	df.info()	Basic Statistics	
dim()	df.shape()	mean()	np.mean()
head()	df.head()	rowSums()	df.sum(1)
summary()	df.describe()	colSums()	df.sum(0)
merge(, by)	pd.merge(, on)	colMeans()	df.mean(0)
merge(, all.x=T)	pd.merge(, how='left')	rowMeans()	df.mean(1)
merge(, all.y=T)	pd.merge(, how='right')	var()	np.var()
merge(, all.x=T, all.y=T)	pd.merge(, how='outer')	sd()	np.std()
apply(, MARGIN = 1, function(x))	df.apply(lambda x: , axis=1)	t.test()	sp.stats.ttest_ind()
apply(, MARGIN = 2, function(x))	df.apply(lambda x: , axis=0)	rnorm()	sp.stats.norm.rvs()
tidyr::drop_na(df)	df.dropna()	dnorm()	sp.stats.norm.pdf()
df[is.na(df)] = value	df.fillna(value)	lm()	linear_model.LinearRegression()
df[, mean(col3), .(col1, col2)]	df.groupby([col1, col2])[col3].mean()		
df[, .N, .(col1, col2)]	df.groupby([col1, col2).size()		
unique()	df.drop_duplicates()		
sample_n()	df.sample()		VS VS
dcast(, ~, value.var, fun)	pd.pivot_table(, index, columns, values, aggfunc)		
melt(, id.vars = c(col))	pd.melt(, id_vars)		

