



2.13 Exercise: Comparing groups – R version

We are going to use the gapminder_2008 data in the FutureLearnData package and look at the values of ChildrenPerWoman for each of the countries broken out by Region.

# R CODE	COMMENTARY or OUTPUT				
# Setup library(iNZightPlots) library(FutureLearnData)	Commentary Make gapminder 2008 inside				
data(gapminder_2008)	FutureLearnData available for analysis				
names(gapminder_2008)	Useful for checking on the spellings of variable names				
iNZightPlot(ChildrenPerWoman , data=gapminder_2008)	Dot plot for ChildrenPerWoman				
	ChildrenPerWoman by Region				
# Now break out by Region iNZightPlot(ChildrenPerWoman, Region, data=gapminder_2008)	East Asia & Pacific Europe & Central Asia Middle East & North Africa				
	Sub-Saharan Africa 1 2 3 4 5 6 7 ChildrenPerWoman 39 missing values (39 in ChildrenPerWoman)				

Get Summary of ChildrenPerWoman broken out by Region

getPlotSummary(ChildrenPerWoman, Region, data=gapminder_2008)

Primary variable of in Secondary va)				
Secondary va	LIGDIC.	Kegion (Juccyczic	/					
Total number of observa	ations: 2	225							
Number omitted due to missi	ngness: 3	39 (39 i	n Children	PerWoman	1)				
Total number of observation	s used: :	186							
	_								
mary of ChildrenPerWoman by	Region:								
mary of ChildrenPerWoman by	Region:								
mary of ChildrenPerWoman by									
	Min		Median					Sample	
America	Min 1.498	1.908	2.264	2.668	4.119	2.377	0.5779		40
	Min 1.498	1.908	2.264	2.668	4.119	2.377	0.5779		40
America	Min 1.498 1.050	1.908 1.979	2.264	2.668 3.226	4.119 6.479	2.377	0.5779 1.2292		40 26
America East Asia & Pacific	Min 1.498 1.050 1.218	1.908 1.979 1.410	2.264 2.295 1.482	2.668 3.226 1.898	4.119 6.479 3.703	2.377 2.685	0.5779 1.2292 0.4700		40 26 48
America East Asia & Pacific Europe & Central Asia	Min 1.498 1.050 1.218 1.570	1.908 1.979 1.410 2.223	2.264 2.295 1.482 2.703	2.668 3.226 1.898 3.125	4.119 6.479 3.703 5.163	2.377 2.685 1.713 2.893	0.5779 1.2292 0.4700 0.9310		Size 40 26 48 20

ChildrenPerWoman by Region

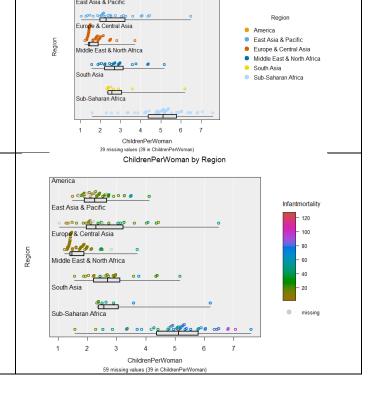
Colour by Region

iNZightPlot(ChildrenPerWoman, Region, data=gapminder_2008, colby=Region)

Try also

Colour by Infantmortality

iNZightPlot(ChildrenPerWoman, Region, data=gapminder_2008, colby=Infantmortality)



- What do you see in the last graph?
- Also try colouring by other variables you think might help explain the Regional differences.

To discuss issues related to this Exercise,

go to https://gitter.im/iNZightVIT/d2i-R-discussion

To be able to post to the list you will have to set up a (free) account on **Github**https://github.com/login

If your question relates to an Exercise, say which one you are talking about!