

Tutorial 2

Ex 1:

suppose you are interested in examining the relationship among measures of food consumption from different sources. The sample data set "Protein" records the amount of protein consumed from nine food groups for each of 25 European countries. The nine food groups are red meat (RedMt), white meat (WhiteMt), eggs (Eggs), milk (Milk), fish (Fish), cereal (Cereal), starch (Starch), nuts (Nuts), and fruits and vegetables (FruVeg).










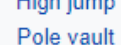
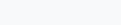
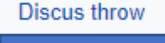
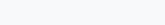

See the R file "pca app 1".

Ex 2:

It contains 27 individuals (athletes) described by 13 variables.

suppose you are interested in examining the relationship among measures of sport of athletics (Decathlon) from different sources (athletes). The sample data set "decathlon2" records the ten track and field events for each of 27 individuals (athletes).

Official world championship track and field events

Track					Field		Combined events
Sprints	Middle-distance	Long-distance	Hurdles	Relays	Jumps	Throws	
 100 m  400 m	 1500 m 		 110 m hurdles 		Long jump  High jump  Pole vault 	Shot put  Discus throw  Javelin throw 	 Decathlon

See the R file "pca app 2".