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| > ################ Análisis de Correspondencia> data(smoke)> smoke none light medium heavySM 4 2 3 2JM 4 3 7 4SE 25 10 12 4JE 18 24 33 13SC 10 6 7 2> mosaicplot(smoke, shade = TRUE)> chisq.test(smoke) Pearson's Chi-squared testdata: smokeX-squared = 16.442, df = 12, p-value = 0.1718Warning message:In chisq.test(smoke) : Chi-squared approximation may be incorrect> summary(ca(smoke))Principal inertias (eigenvalues): dim value % cum% scree plot  1 0.074759 87.8 87.8 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  2 0.010017 11.8 99.5 \*\*\*  3 0.000414 0.5 100.0  -------- -----  Total: 0.085190 100.0 Rows: name mass qlt inr k=1 cor ctr k=2 cor ctr 1 | SM | 57 893 31 | -66 92 3 | -194 800 214 |2 | JM | 93 991 139 | 259 526 84 | -243 465 551 |3 | SE | 264 1000 450 | -381 999 512 | -11 1 3 |4 | JE | 456 1000 308 | 233 942 331 | 58 58 152 |5 | SC | 130 999 71 | -201 865 70 | 79 133 81 |Columns: name mass qlt inr k=1 cor ctr k=2 cor ctr 1 | none | 316 1000 577 | -393 994 654 | -30 6 29 |2 | lght | 233 984 83 | 99 327 31 | 141 657 463 |3 | medm | 321 983 148 | 196 982 166 | 7 1 2 |4 | hevy | 130 995 192 | 294 684 150 | -198 310 506 |> ####inercia\*n=jicuadrada> 0.085190\*sum(smoke)[1] 16.44167> prop.table(as.matrix(smoke),1) none light medium heavySM 0.3636364 0.1818182 0.2727273 0.18181818JM 0.2222222 0.1666667 0.3888889 0.22222222SE 0.4901961 0.1960784 0.2352941 0.07843137JE 0.2045455 0.2727273 0.3750000 0.14772727SC 0.4000000 0.2400000 0.2800000 0.08000000> matplot(t(prop.table(as.matrix(smoke),1)),lty = 1:5,type="b", main="5 perfiles renglón")> prop.table(as.matrix(smoke),2) none light medium heavySM 0.06557377 0.04444444 0.0483871 0.08JM 0.06557377 0.06666667 0.1129032 0.16SE 0.40983607 0.22222222 0.1935484 0.16JE 0.29508197 0.53333333 0.5322581 0.52SC 0.16393443 0.13333333 0.1129032 0.08> matplot(prop.table(as.matrix(smoke),2),lty = 1:4,type="b", main="4 perfiles columna")> plot(ca(smoke),main="Biplot Correspondencia Smoke")> mosaicplot(smoke, shade = TRUE)> matplot(t(prop.table(as.matrix(smoke),1)),lty = 1:5,type="b", main="5 perfiles renglón")> matplot(prop.table(as.matrix(smoke),2),lty = 1:4,type="b", main="4 perfiles columna")> plot(ca(smoke),main="Biplot Correspondencia Smoke") |
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