

CSTable

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Function CSTable

```
data(Tiramisu)
DF <- Tiramisu
#kable(str(DF))
```

Recoding

```
DF <- DF %>%
  mutate(age = case_when(age < 30 ~ 0, age >= 30 ~ 1)) %>%
  rename(agegroup = age) %>%
  mutate(tportion = case_when(tportion == 0 ~ 0, tportion == 1 ~ 1, tportion >= 2 ~ 2)) %>%
  as.data.frame()
```

```
Colnames <- DF %>% select(-ill, -dateonset, -uniquekey, -tportion, -mportion) %>% colnames()
Colnames
```

```
## [1] "sex"          "agegroup"     "tira"         "wmousse"     "dmousse"
## [6] "mousse"      "beer"        "redjelly"     "fruitsalad"  "tomato"
## [11] "mince"       "salmon"      "horseradish"  "chickenwin"  "roastbeef"
## [16] "pork"
```

RAW result unordered

```
CSTable(DF,
  "ill",
  exposure = c("sex", "agegroup", "tira", "beer", "mousse", "wmousse", "dmousse", "redjelly",
    "fruitsalad", "tomato", "mince", "salmon", "horseradish",
    "chickenwin", "roastbeef", "pork"))
```

```
## $df
##           Tot.Exp. Exp.Cases      AR% Tot.Unex. Unex.Cases      AR%
## tira           121       94 77.68595      165         7  4.242424
## mousse          123       81 65.85366      166        22 13.253012
## wmousse          72       49 68.05556      205        49 23.902439
## dmousse         113       76 67.25664      174        26 14.942529
## redjelly         79       45 56.96203      212        58 27.358491
## fruitsalad        71       46 64.78873      220        57 25.909091
## beer            106       30 28.30189      165        69 41.818182
## tomato           83       35 42.16867      208        68 32.692308
## pork            120       48 40.00000      169        54 31.952663
## horseradish        72       30 41.66667      217        72 33.179724
## sex             152       50 32.89474      139        53 38.129496
## roastbeef         29        8 27.58621      262        95 36.259542
## chickenwin        84       33 39.28571      207        70 33.816425
## mince            87       32 36.78161      204        71 34.803922
```

```

## agegroup          68          25 36.76471          215          75 34.883721
## salmon            104          37 35.57692          183          63 34.426230
##               Risk Ratio      CI ll      CI ul p(Chi2)
## tira            18.3116883 8.8140838 38.0434243 0.00000
## mousse          4.9689579 3.2993783 7.4833923 0.00000
## wmousse         2.8472222 2.1282557 3.8090697 0.00000
## dmousse         4.5010211 3.0869232 6.5629073 0.00000
## redjelly        2.0820602 1.5559083 2.7861378 0.00000
## fruitsalad      2.5006177 1.8867637 3.3141877 0.00000
## beer            0.6767842 0.4757657 0.9627363 0.02413
## tomato          1.2898653 0.9379546 1.7738092 0.12692
## pork            1.2518519 0.9176797 1.7077125 0.15835
## horseradish     1.2557870 0.9008402 1.7505891 0.19162
## sex             0.8627110 0.6324429 1.1768182 0.35094
## roastbeef       0.7607985 0.4129048 1.4018110 0.35403
## chickenwin      1.1617347 0.8376167 1.6112711 0.37664
## mince           1.0568237 0.7571811 1.4750451 0.74671
## agegroup        1.0539216 0.7343555 1.5125518 0.77731
## salmon          1.0334249 0.7452486 1.4330346 0.84409
##
## $digits
## [1] 0 0 1 0 0 1 2 2 2 3
##
## $align
## [1] "ccrccrrrrr"
##
## attr("class")
## [1] "EPI_CSTable"

```

Formatted result ordered by Risk Ratio

```
res = CSTable(DF,
  "ill",
  sort = "rr",
  exposure = Colnames)
kable(res$df, digits=res$digits, align=res$align)
```

	Tot.Exp.	Exp.Cases	AR%	Tot.Unex.	Unex.Cases	AR%	Risk Ratio	CI ll	CI ul	p(Chi2)
tira	121	94	77.7	165	7	4.2	18.31	8.81	38.04	0.00000
mousse	123	81	65.9	166	22	13.3	4.97	3.30	7.48	0.00000
dmousse	113	76	67.3	174	26	14.9	4.50	3.09	6.56	0.00000
wmousse	72	49	68.1	205	49	23.9	2.85	2.13	3.81	0.00000
fruitsalad	71	46	64.8	220	57	25.9	2.50	1.89	3.31	0.00000
redjelly	79	45	57.0	212	58	27.4	2.08	1.56	2.79	0.00000
tomato	83	35	42.2	208	68	32.7	1.29	0.94	1.77	0.12692
horseradish	72	30	41.7	217	72	33.2	1.26	0.90	1.75	0.19162
pork	120	48	40.0	169	54	32.0	1.25	0.92	1.71	0.15835
chickenwin	84	33	39.3	207	70	33.8	1.16	0.84	1.61	0.37664
mince	87	32	36.8	204	71	34.8	1.06	0.76	1.48	0.74671
agegroup	68	25	36.8	215	75	34.9	1.05	0.73	1.51	0.77731
salmon	104	37	35.6	183	63	34.4	1.03	0.75	1.43	0.84409
sex	152	50	32.9	139	53	38.1	0.86	0.63	1.18	0.35094
roastbeef	29	8	27.6	262	95	36.3	0.76	0.41	1.40	0.35403
beer	106	30	28.3	165	69	41.8	0.68	0.48	0.96	0.02413

Formatted result ordered by p.value from Fisher test.

```
res = CSTable(DF,
  "ill",
  exact = TRUE,
  exposure = Colnames)
kable(res$df, digits=res$digits, align=res$align)
```

	Tot.Exp.	Exp.Cases	AR%	Tot.Unex.	Unex.Cases	AR%	Risk Ratio	CI ll	CI ul	p(Fisher)
tira	121	94	77.7	165	7	4.2	18.31	8.81	38.04	0.00000
wmousse	72	49	68.1	205	49	23.9	2.85	2.13	3.81	0.00000
dmousse	113	76	67.3	174	26	14.9	4.50	3.09	6.56	0.00000
mousse	123	81	65.9	166	22	13.3	4.97	3.30	7.48	0.00000
redjelly	79	45	57.0	212	58	27.4	2.08	1.56	2.79	0.00000
fruitsalad	71	46	64.8	220	57	25.9	2.50	1.89	3.31	0.00000
beer	106	30	28.3	165	69	41.8	0.68	0.48	0.96	0.02806
tomato	83	35	42.2	208	68	32.7	1.29	0.94	1.77	0.13689
pork	120	48	40.0	169	54	32.0	1.25	0.92	1.71	0.17088
horseradish	72	30	41.7	217	72	33.2	1.26	0.90	1.75	0.20260
sex	152	50	32.9	139	53	38.1	0.86	0.63	1.18	0.39095
roastbeef	29	8	27.6	262	95	36.3	0.76	0.41	1.40	0.41729
chickenwin	84	33	39.3	207	70	33.8	1.16	0.84	1.61	0.41766
agegroup	68	25	36.8	215	75	34.9	1.05	0.73	1.51	0.77307
mince	87	32	36.8	204	71	34.8	1.06	0.76	1.48	0.78939
salmon	104	37	35.6	183	63	34.4	1.03	0.75	1.43	0.89764