

fisherz {psych}

R Documentation

Fisher r to z and z to r and confidence intervals

Description

convert a correlation to a z score or z to r using the Fisher transformation or find the confidence intervals for a specified correlation

Usage

```
fisherz(rho)
fisherz2r(z)
r.con(rho,n,p=.95,twotailed=TRUE)
r2t(rho,n)
```

Arguments

rho	a Pearson r
z	A Fisher z
n	Sample size for confidence intervals
p	Confidence interval
twotailed	Treat p as twotailed p

Value

z value corresponding to r (fisherz) \ r corresponding to z (fisherz2r) \ lower and upper p confidence intervals (r.con) \ t with n-2 df (r2t)

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Examples

```
cors <- seq(-.9,.9,.1)
zs <- fisherz(cors)
rs <- fisherz2r(zs)
round(zs,2)
n <- 30
r <- seq(0,.9,.1)
rc <- matrix(r.con(r,n),ncol=2)
t <- r*sqrt(n-2)/sqrt(1-r^2)
p <- (1-pt(t,n-2))/2
r.rc <- r.rc <- data.frame(r=r,z=fisherz(r),lower=rc[,1],upper=rc[,2],t=t,p=p)
round(r.rc,2)
```