

















32.9







Useful in "metaanalysis"

Which advances science the most?

| | р | r ² | Effect |
|---|--------|----------------|--------|
| 1 | 0.0001 | 0.10 | 1% |
| 2 | 0.06 | 0.9 | 10% |
| 3 | 0.06 | 0.2 | 150% |
| 4 | 0.50 | 0.9 | 100% |
| 5 | 0.05 | 0.9 | 150% |





















Plotting formulae

plot(Mass~Passerine,data=birds)
boxplot(log(Mass)~Passerine,data=birds)
plot(TotalAbund~Mass,data=birds)
interaction.plot(birds\$Invasive,birds\$Aqua
tic,log(birds\$Mass))

Solving formulae

- Use the "Im" function
- m <-lm(y~diet+mass)</pre>
- Usually work with a dataframe, so
 - m<-lm(y~diet+mass,data=mydata)</p>
- What can you do with m
 - print(m)
 - plot(m)
 - summary(m)
 - predict(m,newdata)







R continued

- summary.aov(m) # factor p
- summary.lm(m) #regression & overall model p, r2, effect sizes
- anova(m) #same as summary.aov(m)
- anova(m1,m2)
- Anova(m1,m2) #library CAR allows type II, III Sum-Squares

