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| --- | --- |
| ggplot(WFormDur, aes(x=Language, y=Mean, fill=Concreteness)) + geom\_bar(stat="identity", position=position\_dodge(), color="black") + scale\_fill\_manual(values=c("blue", "grey")) + theme\_bw() + theme(axis.line = element\_line(colour = "black"),panel.grid.major = element\_blank(),panel.grid.minor = element\_blank(),panel.border = element\_blank()) + coord\_cartesian(ylim=c(300,1200)) + geom\_errorbar(aes(ymin=Mean-SE, ymax=Mean+SE), position=position\_dodge(0.9), width=.05) + ylab("Average Acoustic Duration")  text file: WFormDur  image file: Concreteness\_Duration |  |
| ggplot(WFormSyll, aes(x=Language, y=Mean, fill=Concreteness)) + geom\_bar(stat="identity", position=position\_dodge(), color="black") + scale\_fill\_manual(values=c("blue", "grey")) + theme\_bw() + theme(axis.line = element\_line(colour = "black"),panel.grid.major = element\_blank(),panel.grid.minor = element\_blank(),panel.border = element\_blank()) + coord\_cartesian(ylim=c(1,4)) + geom\_errorbar(aes(ymin=Mean-SE, ymax=Mean+SE), position=position\_dodge(0.9), width=.05) + ylab("Average Syllable Length")  text file: WFormSyll  image file: Concreteness\_Syllable |  |
| #### need gridExtra package  library("grid", lib.loc="\\\\file.phhp.ufl.edu/home/chingihung/Documents/R/win-library/3.0")  library("gridExtra", lib.loc="\\\\file.phhp.ufl.edu/home/chingihung/Documents/R/win-library/3.0")  f1<-ggplot(WFormDur, aes(x=Language, y=Mean, fill=Concreteness)) + geom\_bar(stat="identity", position=position\_dodge(), color="black") + scale\_fill\_manual(values=c("blue", "grey")) + theme\_bw() + theme(axis.line = element\_line(colour = "black"), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), panel.border = element\_blank()) + coord\_cartesian(ylim=c(300,1150)) + geom\_errorbar(aes(ymin=Mean-SE, ymax=Mean+SE), position=position\_dodge(0.9), width=.05) + ylab("Average Acoustic Duration") + theme(legend.position="none")  f2<-ggplot(WFormDurASL, aes(x=Language, y=Mean, fill=Concreteness)) + geom\_bar(stat="identity", position=position\_dodge(), color="black") + scale\_fill\_manual(values=c("blue", "grey")) + theme\_bw() + theme(axis.line = element\_line(colour = "black"), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), panel.border = element\_blank()) + coord\_cartesian(ylim=c(1000, 3850)) + geom\_errorbar(aes(ymin=Mean-SE, ymax=Mean+SE), position=position\_dodge(0.9), width=.05) + ylab("Average Visual Duration")  grid.arrange(f1, f2, ncol = 2) |  |
| library("grid", lib.loc="\\\\file.phhp.ufl.edu/home/chingihung/Documents/R/win-library/3.0")  library("gridExtra", lib.loc="\\\\file.phhp.ufl.edu/home/chingihung/Documents/R/win-library/3.0")  library("ggplot2", lib.loc="\\\\file.phhp.ufl.edu/home/chingihung/Documents/R/win-library/3.0")  f1<-ggplot(WFormDur, aes(x=Language, y=Mean, fill=Concreteness)) + geom\_bar(stat="identity", position=position\_dodge(), color="black") + scale\_fill\_manual(values=c("blue", "grey")) + theme\_bw() + theme(axis.line = element\_line(colour = "black"), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), panel.border = element\_blank()) + coord\_cartesian(ylim=c(300,1150)) + geom\_errorbar(aes(ymin=Mean-SE, ymax=Mean+SE), position=position\_dodge(0.9), width=.05) + ylab("Average Acoustic Duration") + theme(legend.position="none")  f2<-ggplot(WFormDurASL, aes(x=Language, y=Mean, fill=Concreteness)) + geom\_bar(stat="identity", position=position\_dodge(), color="black") + scale\_fill\_manual(values=c("blue", "grey")) + theme\_bw() + theme(axis.line = element\_line(colour = "black"), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), panel.border = element\_blank()) + coord\_cartesian(ylim=c(1000, 3850)) + geom\_errorbar(aes(ymin=Mean-SE, ymax=Mean+SE), position=position\_dodge(0.9), width=.05) + ylab("Average Visual Duration")  grid.arrange(f1, f2, widths=c(2.2,1), ncol = 2)  #### adjust xlab position  f1<-ggplot(WFormDur, aes(x=Language, y=Mean, fill=Concreteness)) + geom\_bar(stat="identity", position=position\_dodge(), color="black") + scale\_fill\_manual(values=c("blue", "grey")) + theme\_bw() + theme(axis.title.x = element\_text(hjust=0.66), axis.line = element\_line(colour = "black"), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), panel.border = element\_blank()) + coord\_cartesian(ylim=c(300,1150)) + geom\_errorbar(aes(ymin=Mean-SE, ymax=Mean+SE), position=position\_dodge(0.9), width=.05) + ylab("Average Acoustic Duration") + theme(legend.position="none")  f2<-ggplot(WFormDurASL, aes(x=Language, y=Mean, fill=Concreteness)) + geom\_bar(stat="identity", position=position\_dodge(), color="black") + scale\_fill\_manual(values=c("blue", "grey")) + theme\_bw() + theme(axis.title.x = element\_blank(), axis.line = element\_line(colour = "black"), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), panel.border = element\_blank()) + coord\_cartesian(ylim=c(1000, 3850)) + geom\_errorbar(aes(ymin=Mean-SE, ymax=Mean+SE), position=position\_dodge(0.9), width=.05) + ylab("Average Visual Duration")  grid.arrange(f1, f2, widths=c(2.2,1), ncol = 2) |  |
| f1<-ggplot(WFormDur, aes(x=Language, y=Mean, fill=Concreteness)) + geom\_bar(stat="identity", position=position\_dodge(), color="black") + scale\_fill\_manual(values=c("blue", "grey")) + theme\_bw() + theme(axis.title.x = element\_text(hjust=0.66), axis.line = element\_line(colour = "black"), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), panel.border = element\_blank()) + coord\_cartesian(ylim=c(300,1150)) + geom\_errorbar(aes(ymin=Mean-SE, ymax=Mean+SE), position=position\_dodge(0.9), width=.05) + ylab("Average Acoustic Duration") + theme(legend.position="none") + annotate("text", x=2, y=800, label="\*\*") + annotate("text", x=3, y=1050, label="\*\*") + annotate("text", x=4, y=650, label="\*\*") + annotate("text", x=5, y=930, label="\*\*") + annotate("text", x=7, y=1030, label="\*\*")  f2<-ggplot(WFormDurASL, aes(x=Language, y=Mean, fill=Concreteness)) + geom\_bar(stat="identity", position=position\_dodge(), color="black") + scale\_fill\_manual(values=c("blue", "grey")) + theme\_bw() + theme(axis.title.x=element\_blank(), axis.line = element\_line(colour = "black"), panel.grid.major = element\_blank(), panel.grid.minor = element\_blank(), panel.border = element\_blank()) + coord\_cartesian(ylim=c(1000, 3850)) + geom\_errorbar(aes(ymin=Mean-SE, ymax=Mean+SE), position=position\_dodge(0.9), width=.05) + ylab("Average Visual Duration") + annotate("text", x=1, y=3700, label="\*\*")  grid.arrange(f1, f2, widths=c(3,1), ncol = 2) |  |