## Violin Plots

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# Violin Plots

## Arsenic
KYWVas <- na.omit(full[full$SFIPS==21 | full$SFIPS==54,]$Ascounty)
notKYWVas <- na.omit(full[full$SFIPS!=21 & full$SFIPS!=54,]$Ascounty)
KYWVdf <- KYWVas  %>% as.data.frame() %>%
    mutate(KYWV="KYWV") %>% select("Ascounty"=1,"KYWV"=2)
notKYWVdf <- notKYWVas %>% as.data.frame() %>%
    mutate(KYWV="notKYWV") %>% select("Ascounty"=1,"KYWV"=2)
KYWVcombined = merge(KYWVdf,notKYWVdf,all=TRUE)
KYWVcombined %>% ggplot(aes(x=KYWV,y=Ascounty)) +
    geom_violin(aes(fill = factor(KYWV))) +
    geom_boxplot(width=0.1)
```







