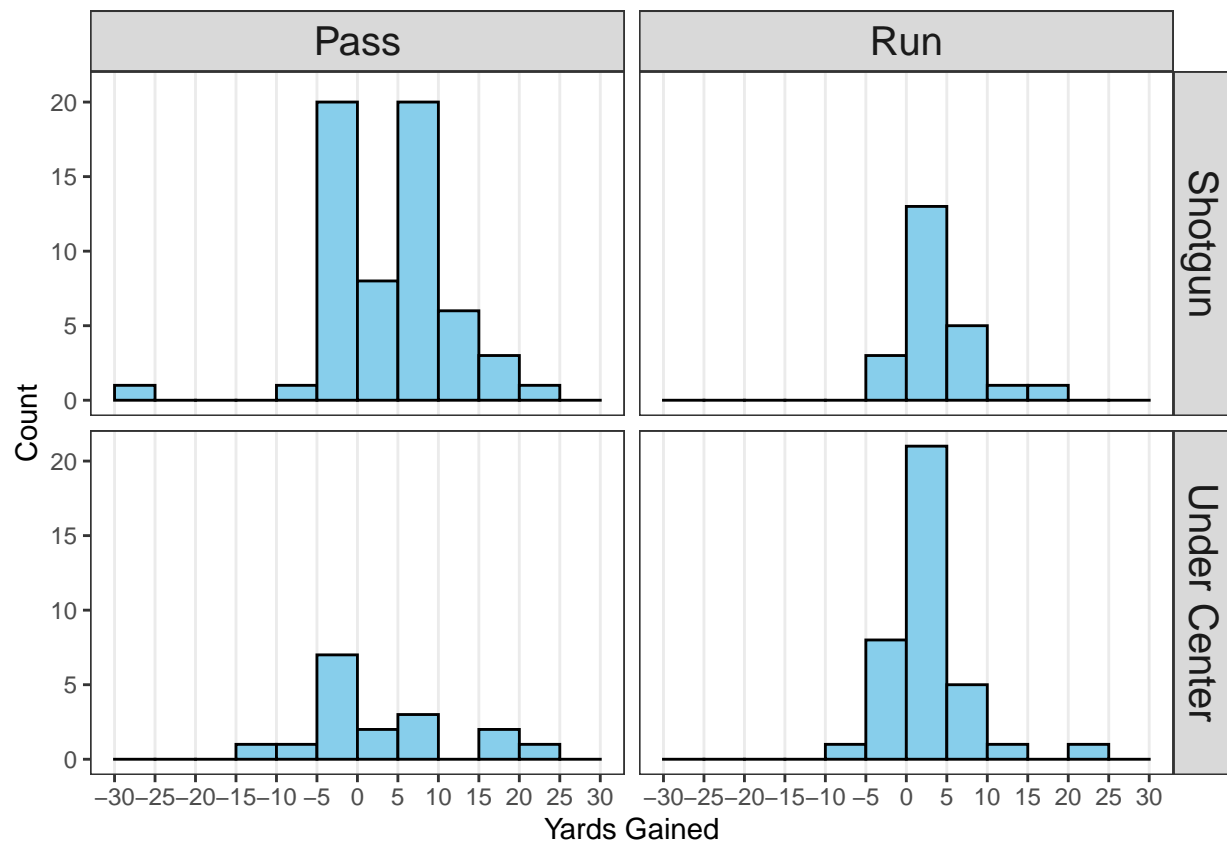


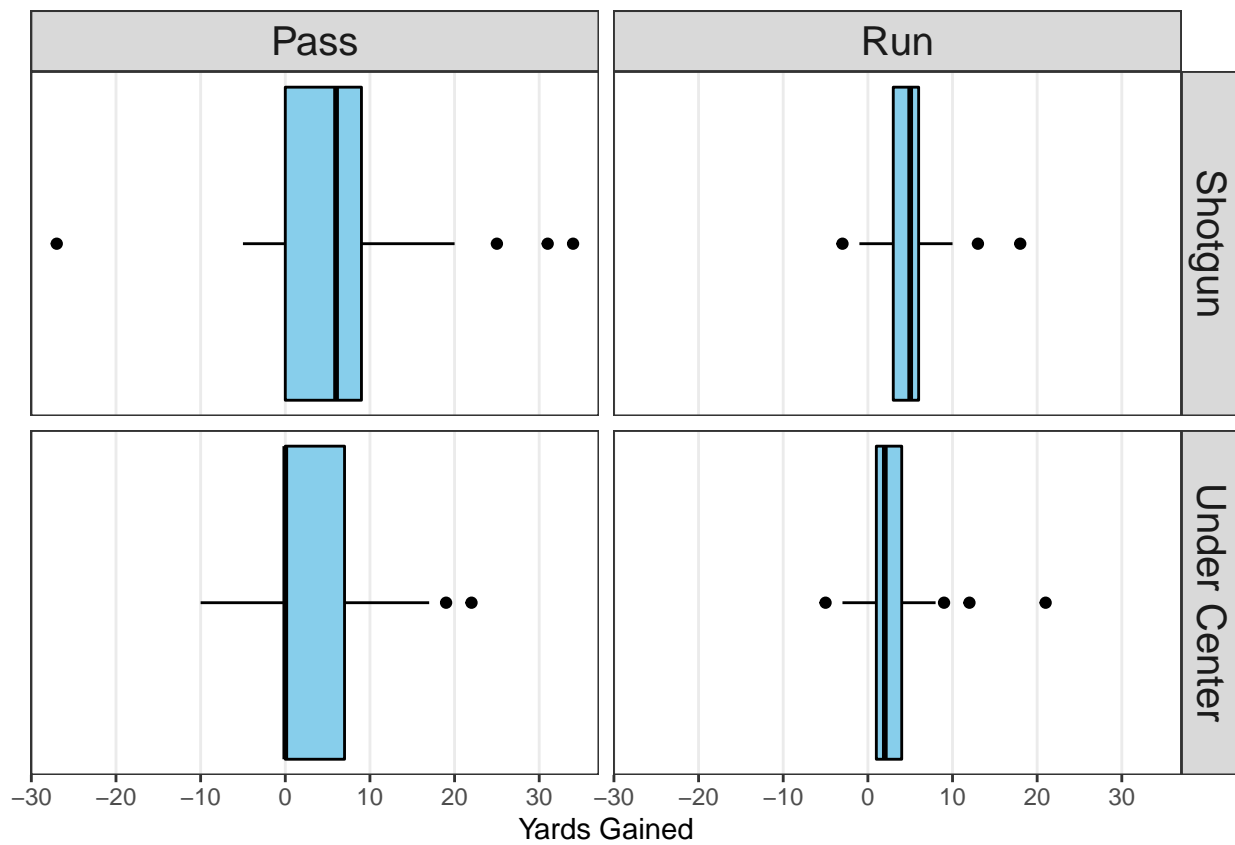
QB Position	Play Type	Yards Gained	Offensive Team	Home Team
1	0	3	Bears	1
1	1	3	Bears	1
1	0	6	Bears	1
1	1	6	Bears	1
1	0	0	Bears	1
0	1	1	Bears	1

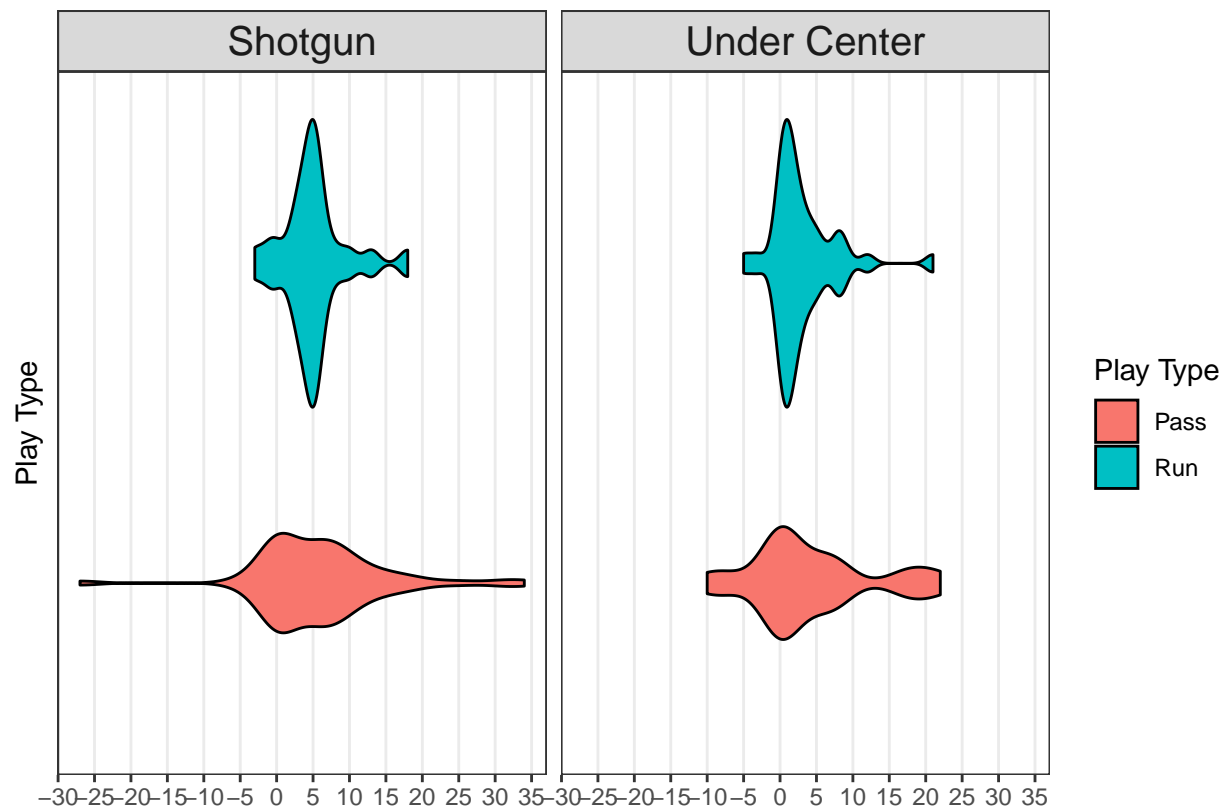
QB.Position	Play.Type	num.plays	avg.yards	min.yards	max.yards	sd.yards
Shotgun	Pass	62	5.903	-27	34	8.79
Shotgun	Run	23	5.087	-3	18	4.358
Under Center	Pass	17	4.118	-10	22	8.609
Under Center	Run	37	2.973	-5	21	4.531

Home	Number of Plays	Pct of Plays	Average	Minimum	Maximum	SD
0	57	41.01	3.895	-5	22	5.059
1	82	58.99	5.378	-27	34	8.431

Team	Number of Plays	Pct of Plays	Average	Minimum	Maximum	SD
Bears	18	12.95	5.556	-4	25	6.446
Cardinals	19	13.67	4.474	-27	31	10.57
Cowboys	13	9.353	3.615	0	12	4.073
Giants	10	7.194	3.6	0	11	4.248
Patriots	15	10.79	5.4	-7	21	8.322
Rams	15	10.79	4	-5	22	6.579
Saints	14	10.07	5.143	-10	18	7.594
Seahawks	26	18.71	5.923	-3	34	7.944
Vikings	9	6.475	3.111	0	13	4.485







###Summary of Anova Model

```
##
##              Df Sum Sq Mean Sq F value Pr(>F)
## QB.Position    1   182   182.21   3.210  0.076 .
## Play.Type       1    26    25.70   0.453  0.503
## Home           1    43    43.19   0.761  0.385
## Team           8    88    10.96   0.193  0.991
## QB.Position:Play.Type 1     0     0.08   0.001  0.970
## QB.Position:Home      1    95    94.89   1.672  0.199
## Play.Type:Home        1    20    20.42   0.360  0.550
## QB.Position:Team      8   374    46.78   0.824  0.583
## Play.Type:Team        7   343    49.00   0.863  0.538
## QB.Position:Play.Type:Home 1    37    37.48   0.660  0.418
## QB.Position:Play.Type:Team 2    39    19.32   0.340  0.712
## Residuals          106  6017    56.77
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

###Tukey HSD

```
## Tukey multiple comparisons of means
## 95% family-wise confidence level
##
## Fit: aov(formula = Yards.Gained ~ QB.Position * Play.Type * Home, data = data)
##
## $QB.Position
##              diff      lwr      upr      p adj
## Under Center-Shotgun -2.34902 -4.856365 0.1583259 0.0660858
```

```

##
## $Play.Type
##          diff          lwr          upr          p adj
## Run-Pass -0.7925771 -3.259931 1.674776 0.5262363
##
## $Home
##          diff          lwr          upr          p adj
## 1-0 1.101828 -1.382884 3.586541 0.3819645
##
## $`QB.Position:Play.Type`
##          diff          lwr          upr          p adj
## Under Center:Pass-Shotgun:Pass -1.9203125 -7.109359 3.268734 0.7706253
## Shotgun:Run-Shotgun:Pass -0.9234185 -5.550893 3.704056 0.9543293
## Under Center:Run-Shotgun:Pass -2.9106627 -6.848114 1.026789 0.2231877
## Shotgun:Run-Under Center:Pass 0.9968939 -5.065386 7.059173 0.9735978
## Under Center:Run-Under Center:Pass -0.9903503 -6.543839 4.563138 0.9667344
## Under Center:Run-Shotgun:Run -1.9872442 -7.019992 3.045504 0.7336212
##
## $`QB.Position:Home`
##          diff          lwr          upr          p adj
## Under Center:0-Shotgun:0 -0.7157014 -5.737436 4.306033 0.9825129
## Shotgun:1-Shotgun:0 2.2084877 -2.165599 6.582574 0.5557639
## Under Center:1-Shotgun:0 -1.0447393 -6.260087 4.170608 0.9538353
## Shotgun:1-Under Center:0 2.9241891 -1.399029 7.247407 0.2972661
## Under Center:1-Under Center:0 -0.3290379 -5.501797 4.843721 0.9983787
## Under Center:1-Shotgun:1 -3.2532269 -7.799901 1.293447 0.2495539
##
## $`Play.Type:Home`
##          diff          lwr          upr          p adj
## Run:0-Pass:0 -1.2316220 -6.316367 3.853123 0.9221131
## Pass:1-Pass:0 0.7145083 -3.609355 5.038372 0.9732261
## Run:1-Pass:0 0.1935241 -4.374314 4.761362 0.9995182
## Pass:1-Run:0 1.9461303 -2.826511 6.718772 0.7136925
## Run:1-Run:0 1.4251461 -3.569596 6.419888 0.8796903
## Run:1-Pass:1 -0.5209842 -4.738640 3.696671 0.9884659
##
## $`QB.Position:Play.Type:Home`
##          diff          lwr          upr
## Under Center:Pass:0-Shotgun:Pass:0 0.3055556 -8.464238 9.075349
## Shotgun:Run:0-Shotgun:Pass:0 -1.8333333 -13.950544 10.283877
## Under Center:Run:0-Shotgun:Pass:0 -1.7333333 -8.526386 5.059719
## Shotgun:Pass:1-Shotgun:Pass:0 2.1535088 -3.696516 8.003533
## Under Center:Pass:1-Shotgun:Pass:0 -1.3333333 -10.493083 7.826417
## Shotgun:Run:1-Shotgun:Pass:0 0.9956140 -5.894256 7.885485
## Under Center:Run:1-Shotgun:Pass:0 -1.4656863 -8.578167 5.646794
## Shotgun:Run:0-Under Center:Pass:0 -2.1388889 -15.621676 11.343898
## Under Center:Run:0-Under Center:Pass:0 -2.0388889 -11.044683 6.966905
## Shotgun:Pass:1-Under Center:Pass:0 1.8479532 -6.469591 10.165498
## Under Center:Pass:1-Under Center:Pass:0 -1.6388889 -12.541172 9.263394
## Shotgun:Run:1-Under Center:Pass:0 0.6900585 -8.388987 9.769104
## Under Center:Run:1-Under Center:Pass:0 -1.7712418 -11.020357 7.477874
## Under Center:Run:0-Shotgun:Run:0 0.1000000 -12.189094 12.389094
## Shotgun:Pass:1-Shotgun:Run:0 3.9868421 -7.807185 15.780869
## Under Center:Pass:1-Shotgun:Run:0 0.5000000 -13.239625 14.239625

```

## Shotgun:Run:1-Shotgun:Run:0	2.8289474	-9.513929	15.171824
## Under Center:Run:1-Shotgun:Run:0	0.3676471	-12.100860	12.836154
## Shotgun:Pass:1-Under Center:Run:0	3.8868421	-2.311370	10.085054
## Under Center:Pass:1-Under Center:Run:0	0.4000000	-8.985951	9.785951
## Shotgun:Run:1-Under Center:Run:0	2.7289474	-4.458915	9.916810
## Under Center:Run:1-Under Center:Run:0	0.2676471	-7.133868	7.669163
## Under Center:Pass:1-Shotgun:Pass:1	-3.4868421	-12.214574	5.240889
## Shotgun:Run:1-Shotgun:Pass:1	-1.1578947	-7.462067	5.146278
## Under Center:Run:1-Shotgun:Pass:1	-3.6191950	-10.165924	2.927534
## Shotgun:Run:1-Under Center:Pass:1	2.3289474	-7.127311	11.785206
## Under Center:Run:1-Under Center:Pass:1	-0.1323529	-9.752015	9.487309
## Under Center:Run:1-Shotgun:Run:1	-2.4613003	-9.951773	5.029173
##	p adj		
## Under Center:Pass:0-Shotgun:Pass:0	1.0000000		
## Shotgun:Run:0-Shotgun:Pass:0	0.9997774		
## Under Center:Run:0-Shotgun:Pass:0	0.9935851		
## Shotgun:Pass:1-Shotgun:Pass:0	0.9480972		
## Under Center:Pass:1-Shotgun:Pass:0	0.9998281		
## Shotgun:Run:1-Shotgun:Pass:0	0.9998363		
## Under Center:Run:1-Shotgun:Pass:0	0.9983159		
## Shotgun:Run:0-Under Center:Pass:0	0.9996949		
## Under Center:Run:0-Under Center:Pass:0	0.9969417		
## Shotgun:Pass:1-Under Center:Pass:0	0.9972834		
## Under Center:Pass:1-Under Center:Pass:0	0.9997868		
## Shotgun:Run:1-Under Center:Pass:0	0.9999980		
## Under Center:Run:1-Under Center:Pass:0	0.9989499		
## Under Center:Run:0-Shotgun:Run:0	1.0000000		
## Shotgun:Pass:1-Shotgun:Run:0	0.9671103		
## Under Center:Pass:1-Shotgun:Run:0	1.0000000		
## Shotgun:Run:1-Shotgun:Run:0	0.9966966		
## Under Center:Run:1-Shotgun:Run:0	1.0000000		
## Shotgun:Pass:1-Under Center:Run:0	0.5318566		
## Under Center:Pass:1-Under Center:Run:0	1.0000000		
## Shotgun:Run:1-Under Center:Run:0	0.9391120		
## Under Center:Run:1-Under Center:Run:0	1.0000000		
## Under Center:Pass:1-Shotgun:Pass:1	0.9213005		
## Shotgun:Run:1-Shotgun:Pass:1	0.9991995		
## Under Center:Run:1-Shotgun:Pass:1	0.6853231		
## Shotgun:Run:1-Under Center:Pass:1	0.9948362		
## Under Center:Run:1-Under Center:Pass:1	1.0000000		
## Under Center:Run:1-Shotgun:Run:1	0.9718700		