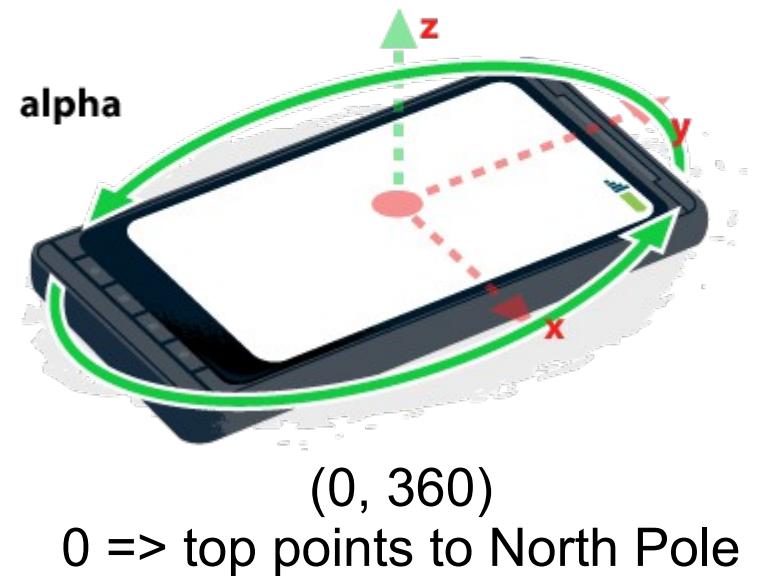
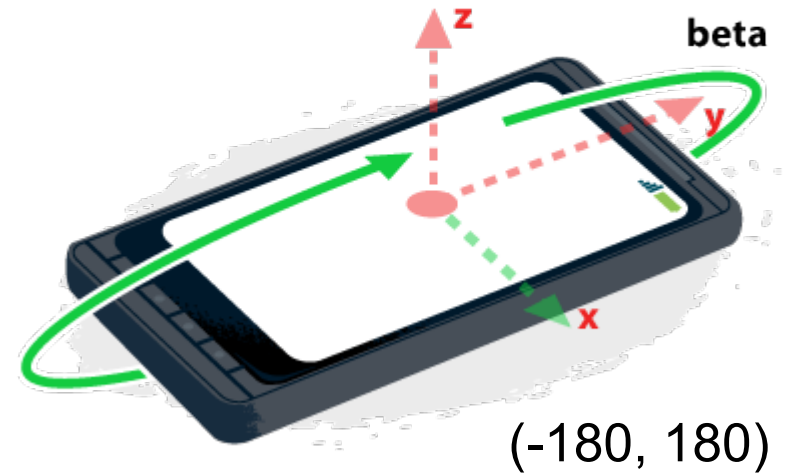
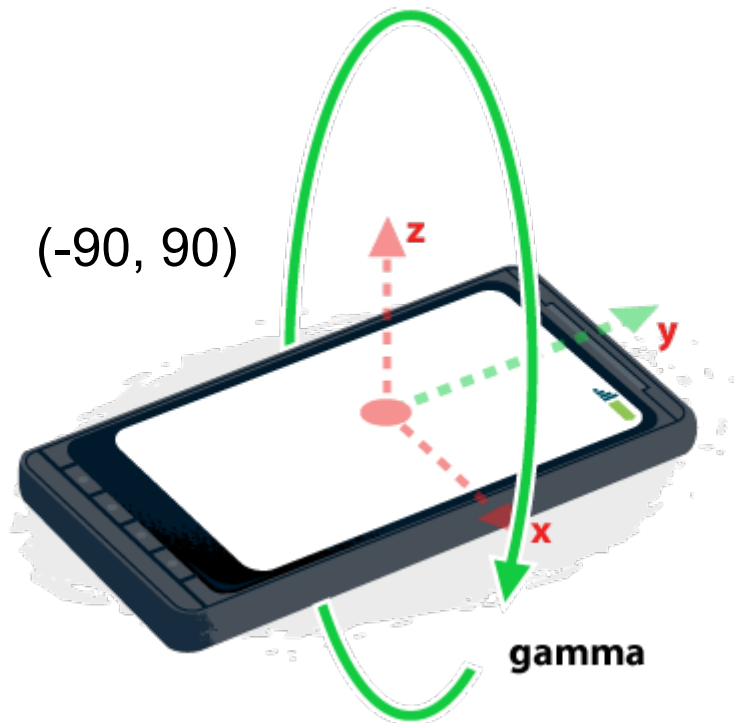




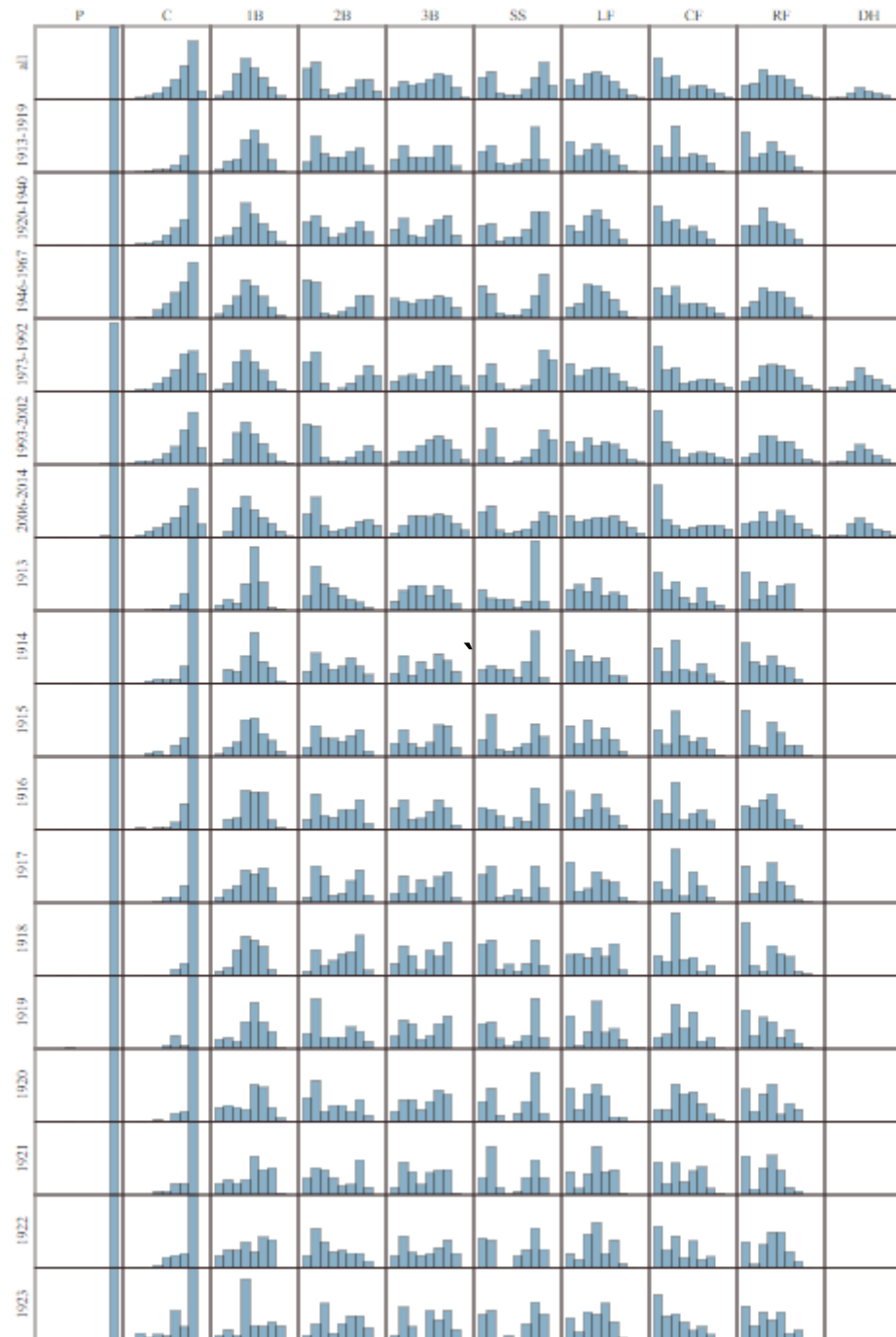
A Mobile Datavis Experiment

<http://bdilday.github.io/tiltdemo>

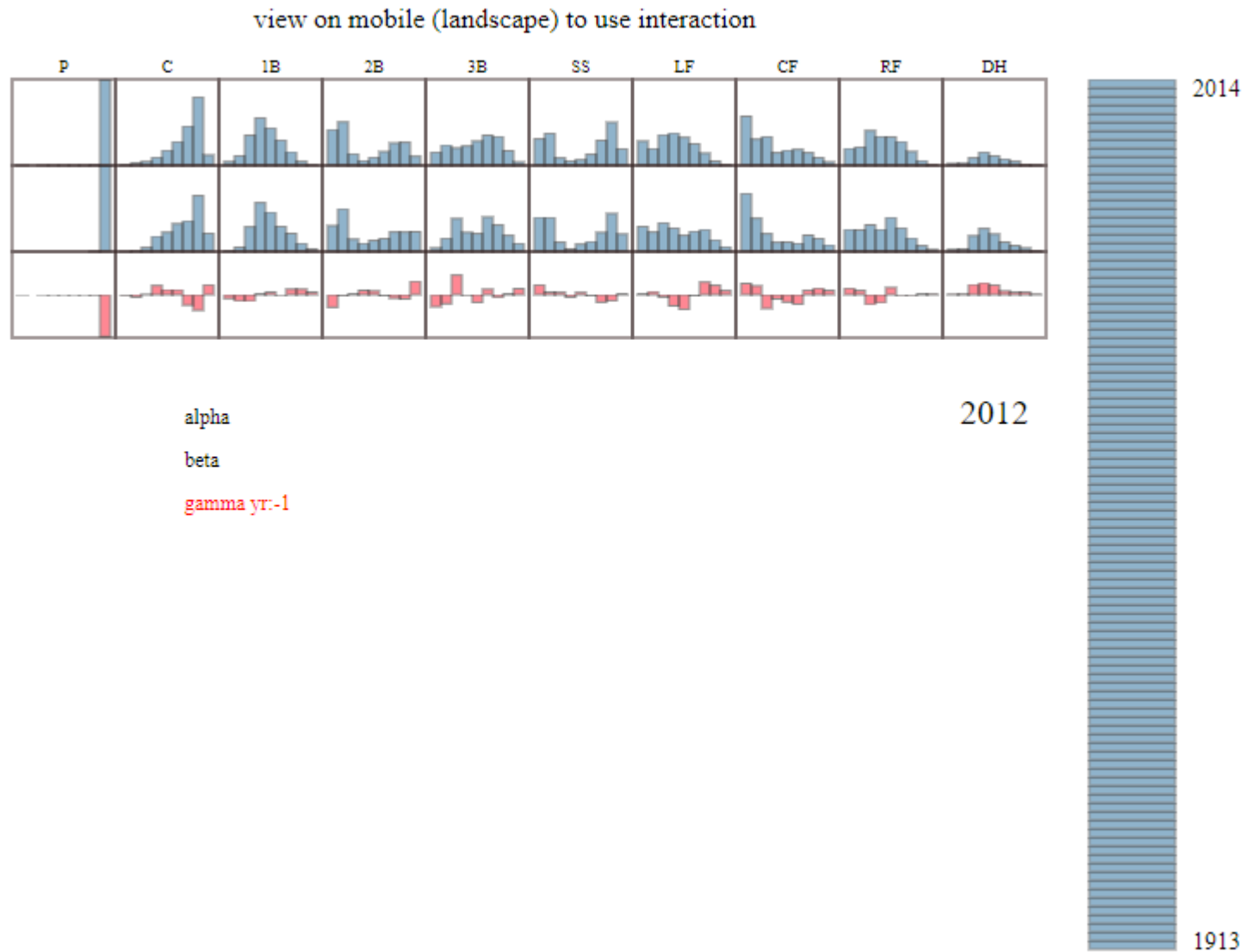
```
1 | window.addEventListener("deviceorientation", handleOrientation, true);
```



http://bdilday.github.io/mlb_viz/lineups-viz/



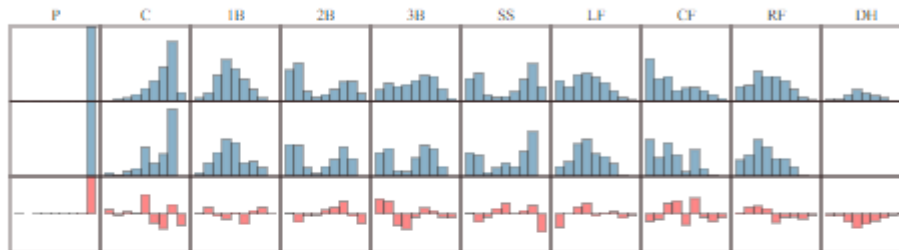
http://bdilday.github.io/mlb_viz/lineups-viz-brushing-orientation/



http://bdilday.github.io/mlb_viz/lineups-viz-brushing-orientation-switch-canvas/



sim_gamma -11 => 101



ALPHA: 0

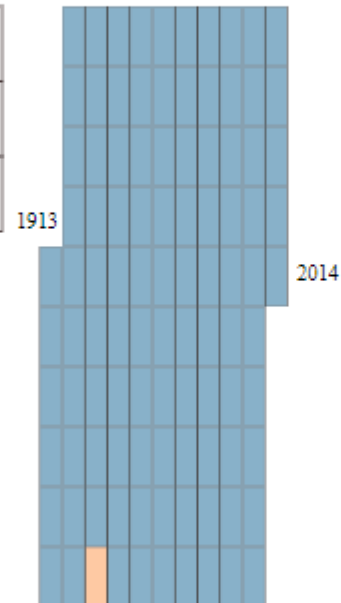
BETA: 0

GAMMA: -78 1939

DGAMMA: AVG-100 -78 20

HOWTO: use landscape mode.
tilt up /down to move year.
rapid up down to switch decade

1939



Transformation of angle

Gamma in -90 to 90 degrees

Compute: $\text{sign}(\text{gamma}) \times (90 - \text{abs}(\text{gamma}))$

-80 ==> -10

+80 ==> +10

Logic for switching

Keep running average of gamma over N frames
(N = 20)

When gamma changes by D, do switch
(D = 50 degrees)

Freeze switching for M frames
(M = 50)



<https://vr-batted-ball-vis.herokuapp.com/>