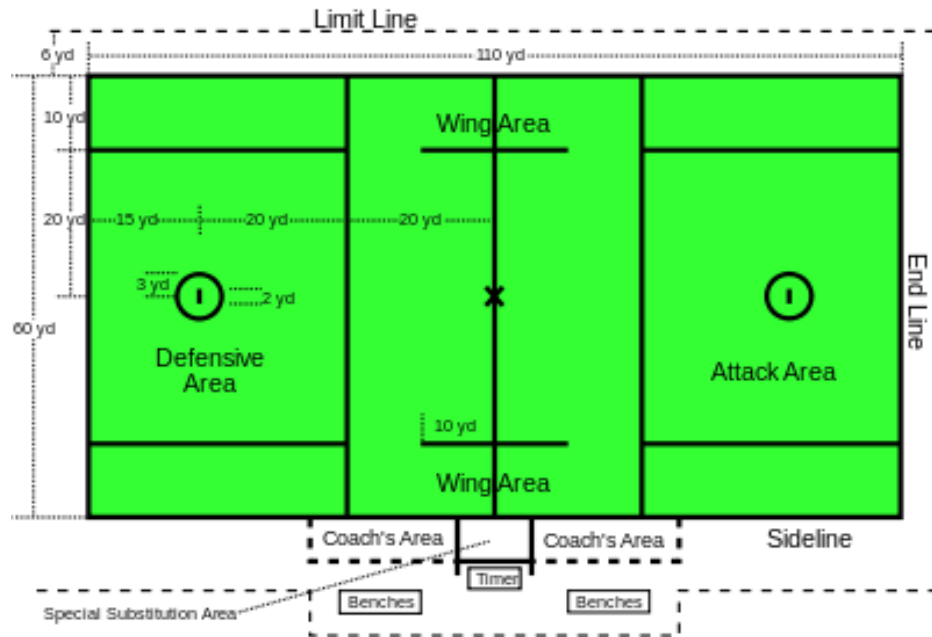


Shot Chart Documentation

Data Points:

- Shot_num shot number of data sheet (starts at 0)
- Shooter Number of shooter
- Goalie_hand Hand of goalie
 - (right=0, left=1)
- shot_hand hand of shot
 - (right=0, left=1)
- Type_shot_0 type of shot
 - Over hand = 0 ; side arm = 1 ; under hand = 2 ; back hand = 3 ; behind the back = 4
- type_shot_1 type of shot
 - Stationary = 0 ; on the run = 1 ; quick stick = 2 ; MORE?
- Loc_x location of shot horizontally from goal in yards
 - (-20,20)
- Loc_y location of shot vertically from goal in yards
 - (0,20)
- Dist distance from goal in yards
 - $\sqrt{(loc\ x)^2 + (loc\ y)^2}$
- Loc_goal location of shot on goal (SUBJECT TO CHANGE)
- Bounce bouncer shot?
 - 0 = yes ; 1 = no
- Result result of shot
 - 0 = goal ; 1 = save ; 2 = miss ; 3 = pipe ; 4 = blocked
- Screen Was the shot screened?
 - 0 = yes ; 1 = no
- HUDLtime timestamp in HUDL
- Notes extra notes pertaining to the shot

Field dimensions for manual data collection



Data and Plots Example:

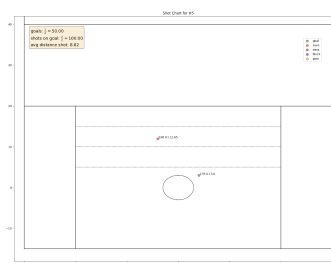
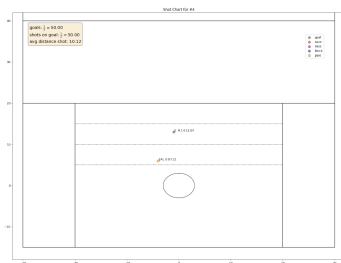
Example Data

shot_num	shooter	goalie_hand	shot_hand	type_shot_0	type_shot_1	loc_x	loc_y	dist	loc_goal	bounce	result	screen	HUDLtime	Notes:
0	6	0	0	0	2	-2	4	4.47	9	1	2	1	21.45	
1	4	0	1	0	0	-4	6	7.21	14	1	3	1	24.27	
2	5	0	0	0	1	4	3	5	17	1	0	1	25.32	
3	4	0	0	1	0	-1	13	13.04	5	1	0	0	32.35	
4	6	0	0	0	2	0	5	5	6	0	4	0	34.04	
5	5	0	0	0	1	-4	12	12.65	13	1	1	0	36.32	
6	6	0	1	0	0	-5	5	7.07	11	1	1	1	N/A	

Example Plots

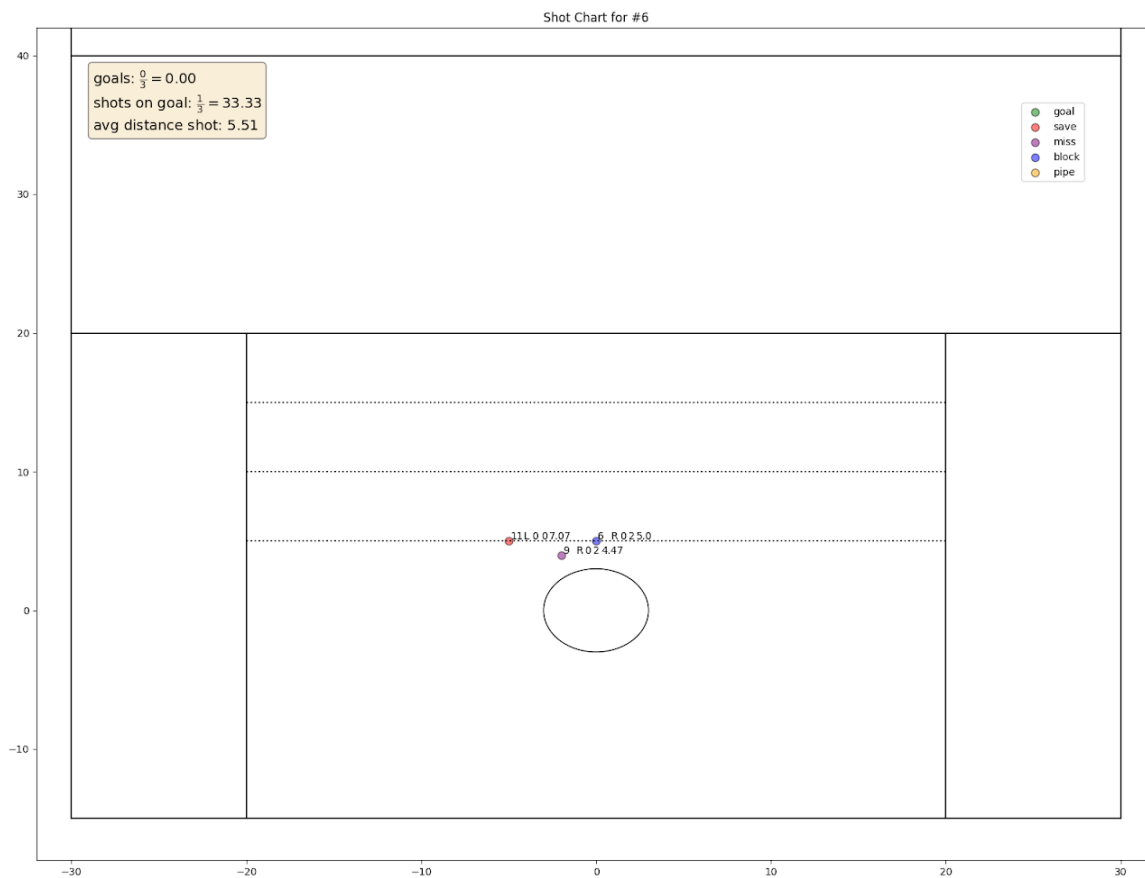
Can get shot charts for specific players

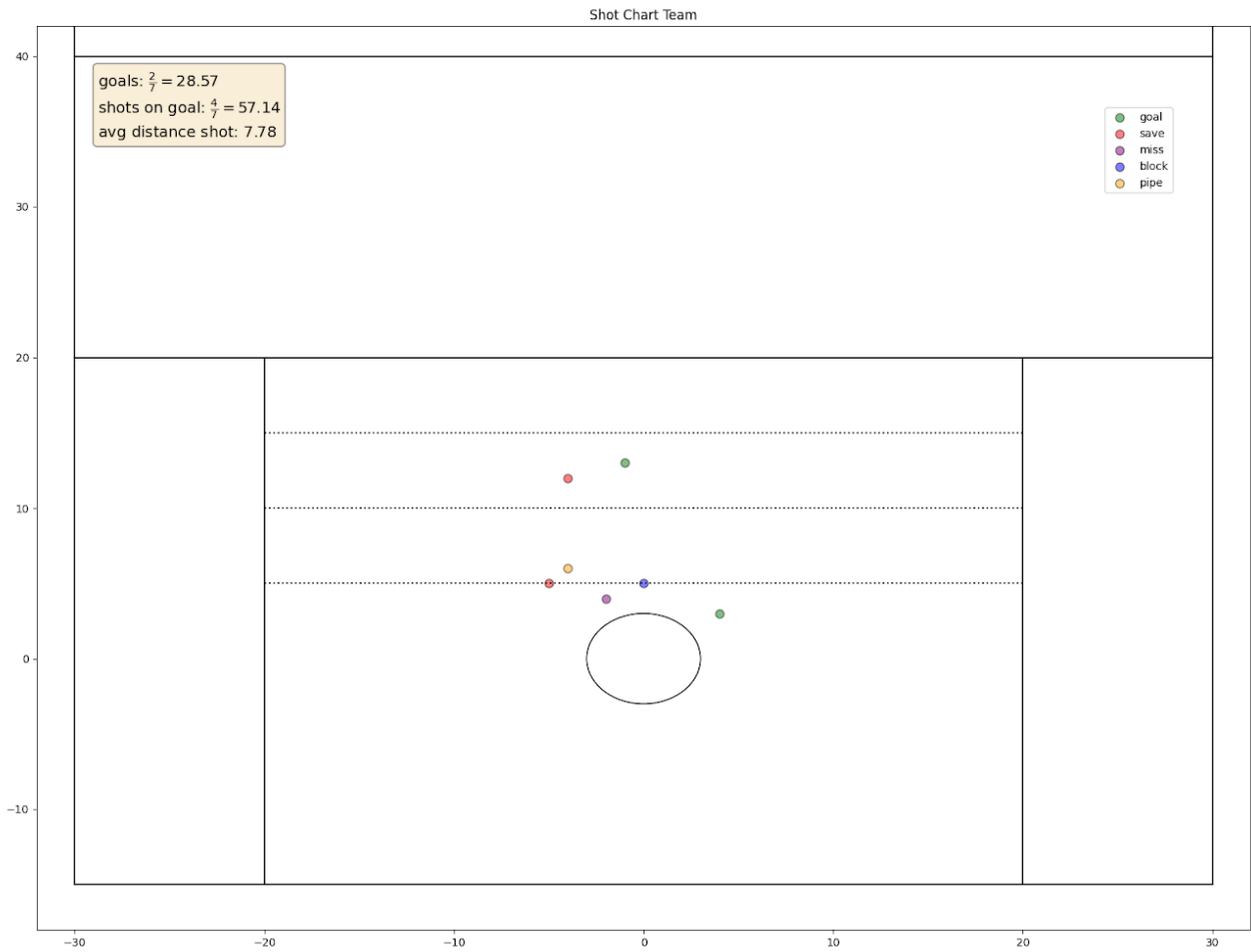
From example data charts are shown for player #4,5,6 and whole team



Order of extra data if wanted on chart:

- Goal location [0,29] N for NA (see Goal Location section below)
- Hand shot (L,R)
- Type_shot_0
 - Over hand = 0 ; side arm = 1 ; under hand = 2 ; back hand = 3 ; behind the back = 4
- Type_shot_1
 - Stationary = 0 ; on the run = 1 ; quick stick = 2 ; MORE?
- Distance from goal





Goal Location

Done by sectioning the goal into 16 boxes and extending boxes to the outside area of the goal.
Orange is the goal space, green is miss.

0	5	10	15	20	25
1	6	11	16	21	26
2	7	12	17	22	27
3	8	13	18	23	28
4	9	14	19	24	29