

Jamstats User Manual

Everything you need to know to run Jamstats and get the most out of all the tables and plots

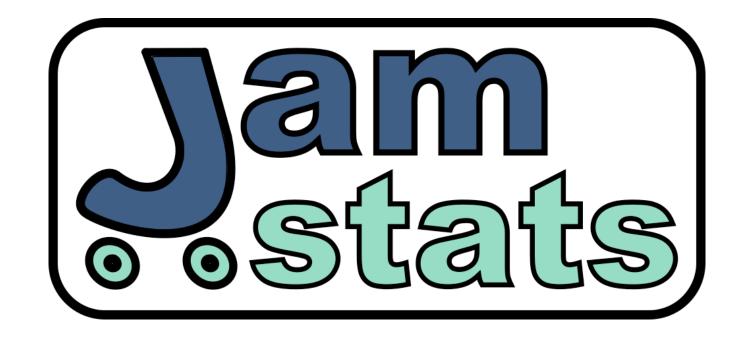
Damon May

What is Jamstats for?

Jamstats extracts data from the CRG Roller Derby Scoreboard, or from a JSON file output by the scoreboard, and makes it useful.

The main use cases are:

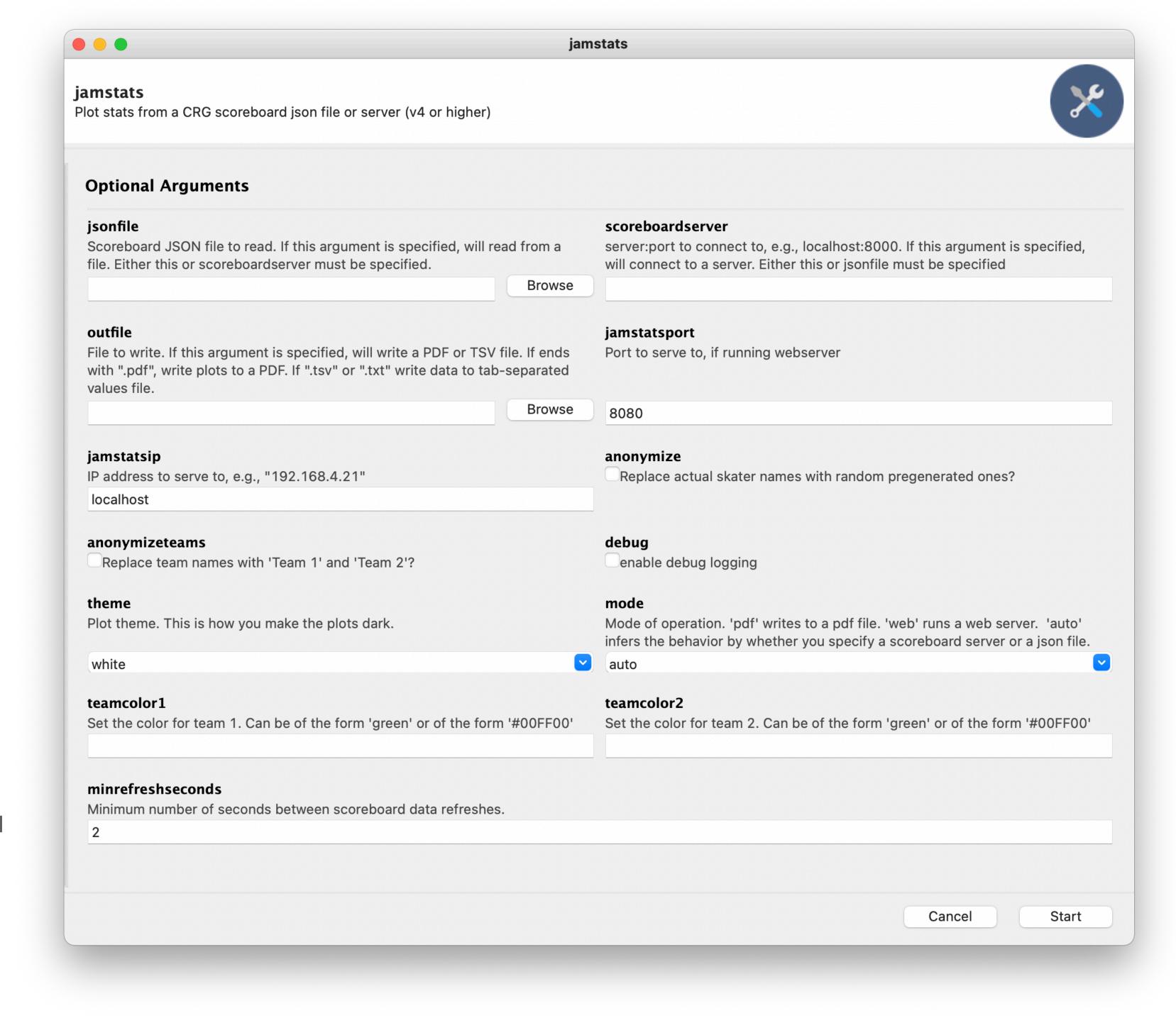
- Announcers tracking current skaters, jammers, pivots and penalties
- Coaches getting insights into how their teams played

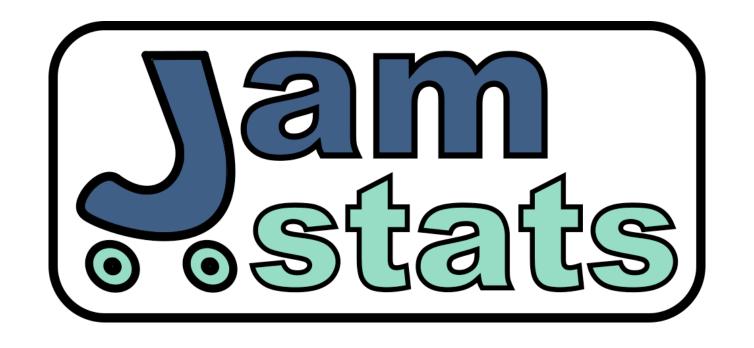


Starting Jamstats

Graphical Argument Interface

- Double-clicking on the jamstats .exe
 file will bring up this interface
- Jamstats takes a ton of parameters
 - You can ignore most of them!
 - The critical ones are at the top
- To connect to a scoreboard server, enter its info as the "scoreboard server" parameter
 - E.g.: "172.28.12.7:8000"
- Jamstats will start on the IP address and port specified by "jamstatsip" and "jamstatsport".
 - Jamstats will tell you where to point your browser in text output after you hit "Start"
 - · By default, "localhost:8080"
- The rest of the parameters all tell you what they do





Overview of the web interface

What are all these tables and plots?

They're divided into three sections to make it easier to find what you want

Tables

Current Skaters

Teams Summary

Recent Penalties

Team Rosters

Officials Roster

Data on skaters in the current jam

Basic game info like score, # jams with lead, # star passes...

The last 10 penalties called, in reverse order

Numbers and names of each skater from both teams

Names and positions of each ref and NSO

Basic Plots

Score by Jam

Team Penalty Counts

Team 1 Jammers

Team 2 Jammers

Team 1 Skaters

Team 2 Skaters

Score over time throughout the game

Total counts of each type of penalty, for each team

Stats for Team 1's and Team 2's jammers: # jams jammed, total points, mean net points/jam...

Penalty counts and number of jams skated for each team member

Advanced Plots

Lead Summary

Jam Details (Period 1)

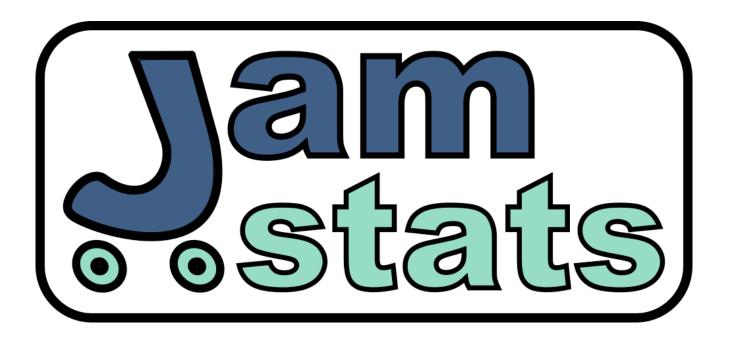
Jam Details (Period 2)

Jammer Summary

Plots describing how often each team has gotten lead, called off, etc., and time to initial pass

>> All details for every jam, for each team: lead, lead loss, calloff, star passes, etc.

How many jammers each team played, how many jams they jammed, points vs. # jams



Tables

Current Skaters

Data about every skater in the current jam and in the previous jam

Screen will update to a new jam after the jam starts

Period 2, Jam 13

Team 1

Team 2	

Position Number Name **Position** Name **Penalty** Number **Penalty** 667 **Sneak Attrack** J (L) 823 Max May-wheeled Boba Teen 18 **Global Harming** Rejected 20 Ada Hatelace Penalty Fox Scar Wylde 371 Nasty, Brutish and Me Wheela Monster 83 64

Skater order: Jammer, then Pivot, then blockers in derby order

Previous jam:

Period 2, Jam 12

Team 1

Position Number Name Penalty Position Number Name	Penalty
J 24 Sassassin J (L) 64 Kestrel	
P 18 Superscar Direction (Served) P 823 Unarmed	d Strike
B 200 Bad Assassin Direction (Served) B 033 Roll for I	Damage
B 613 Scartillery B 20 Scarlight	t Express Back Block (Served)
B 82 Nat Twenty B 8 Artemis	Foul

Positions: P=Pivot, J=Jammer, B=Blocker

Position notes: (NI)=No Initial, (L)=Lead, (LO)=Lost, (SP)=Star Pass

Penalty status:

- Serving: skater in box
- Served: skater has completed serving penalty

Color key explains penalty statuses

 Jammers will show as (NI) until they complete their initial pass They'll show as (LO) if they get a penalty, even if they weren't lead

Star Pass will show as (SP) on the Pivot

> If you don't have lineup tracking, Jammer, Pivot (if tracked) and all skaters who get penalties in this jam will still show up

Teams Summary

Counts of a bunch of different things for each team

Team 1	Team 2		
179	155		
7	12		
7	4		
0	9		
2	2		
1	3		
15	16		
	179 7 0 2		

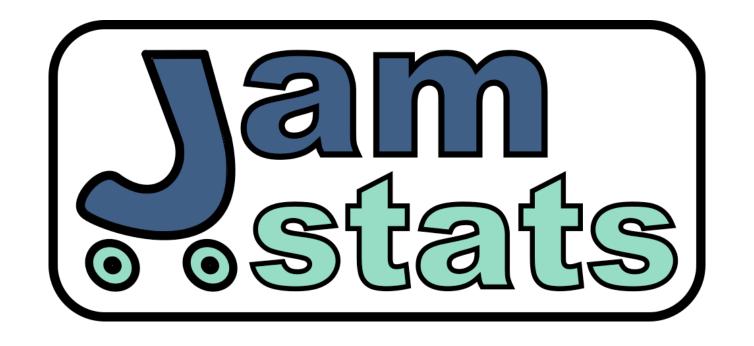
Teams Summary

Information about the last 10 penalties called. Most recent penalty is first.

Status:

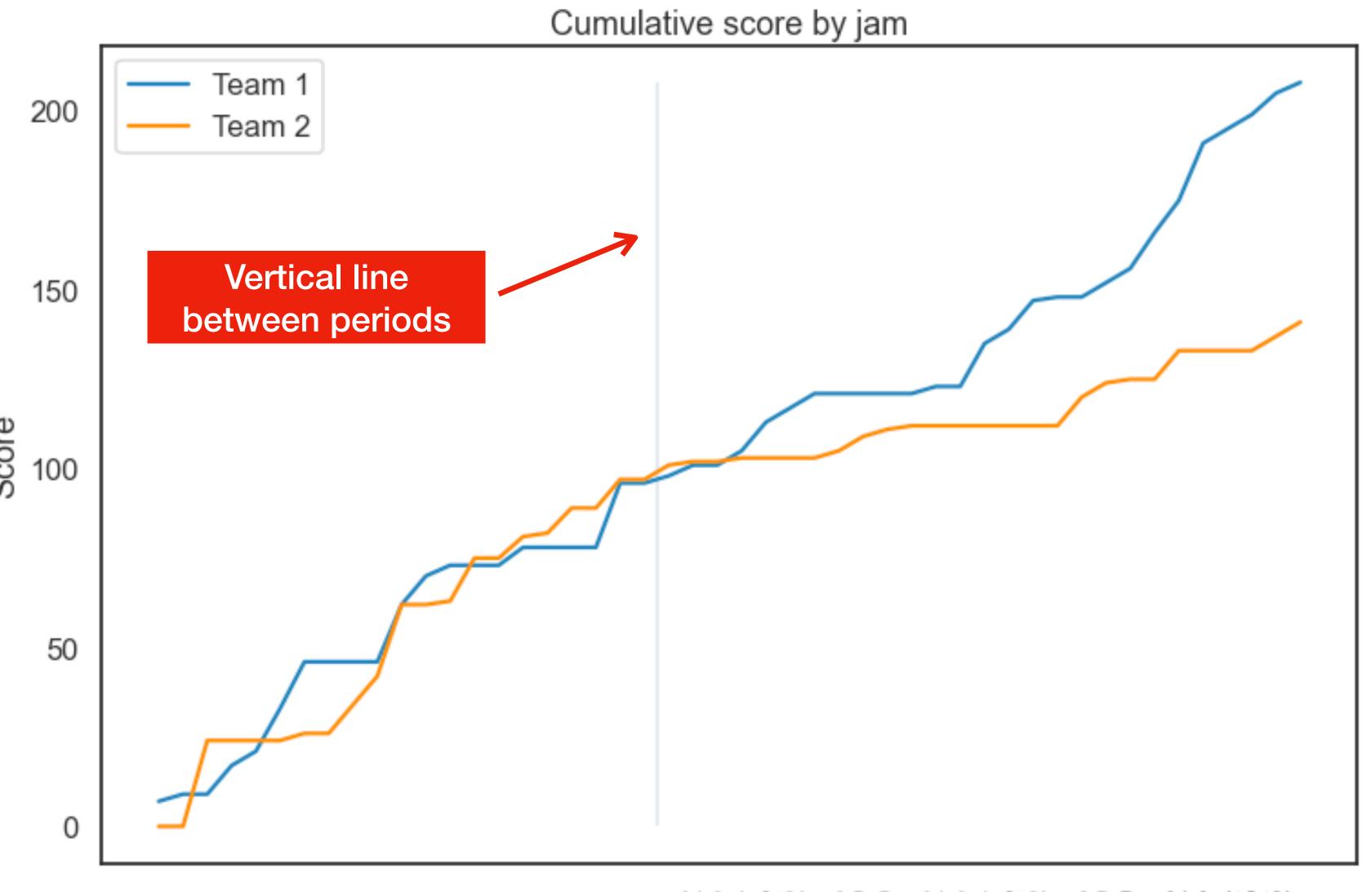
- Not Yet: player hasn't reported
- Serving: player is in box
- Served: player is back out of box

Team	Skater	Penalty	Status	Period	Jam	Time in Jam
Team 2	Global Harming	Cut	Not Yet	2	7	2:23
Team 2	Scar Wylde	Back Block	Served	2	7	0:51
Team 1	Elenavalanche	Cut	Served	2	7	0:18
Team 2	Scar Wylde	Cut	Served	2	6	1:07
Team 2	Bad Assassin	Forearm	Served	2	5	1:17
Team 1	Wheela Monster	Illegal Contact	Served	2	4	0:10
Team 1	No Regrette	Illegal Procedure	Served	2	3	1:25
Team 1	Fate Skar	Cut	Served	2	3	0:21
Team 1	Fate Skar	Cut	Served	2	1	1:12
Team 2	Boba Teen	Multiplayer	Served	2	1	1:04

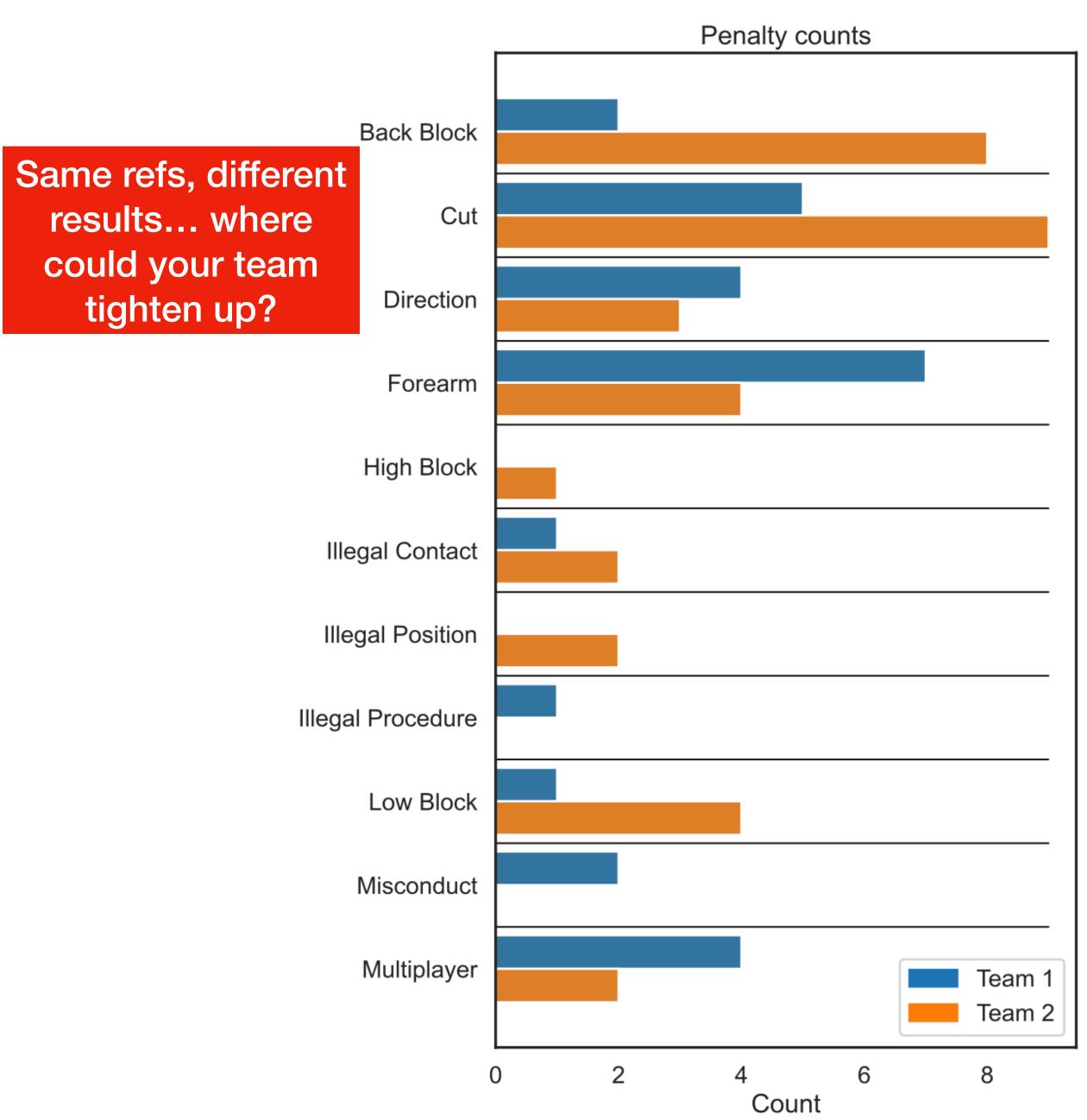


Basic Plots

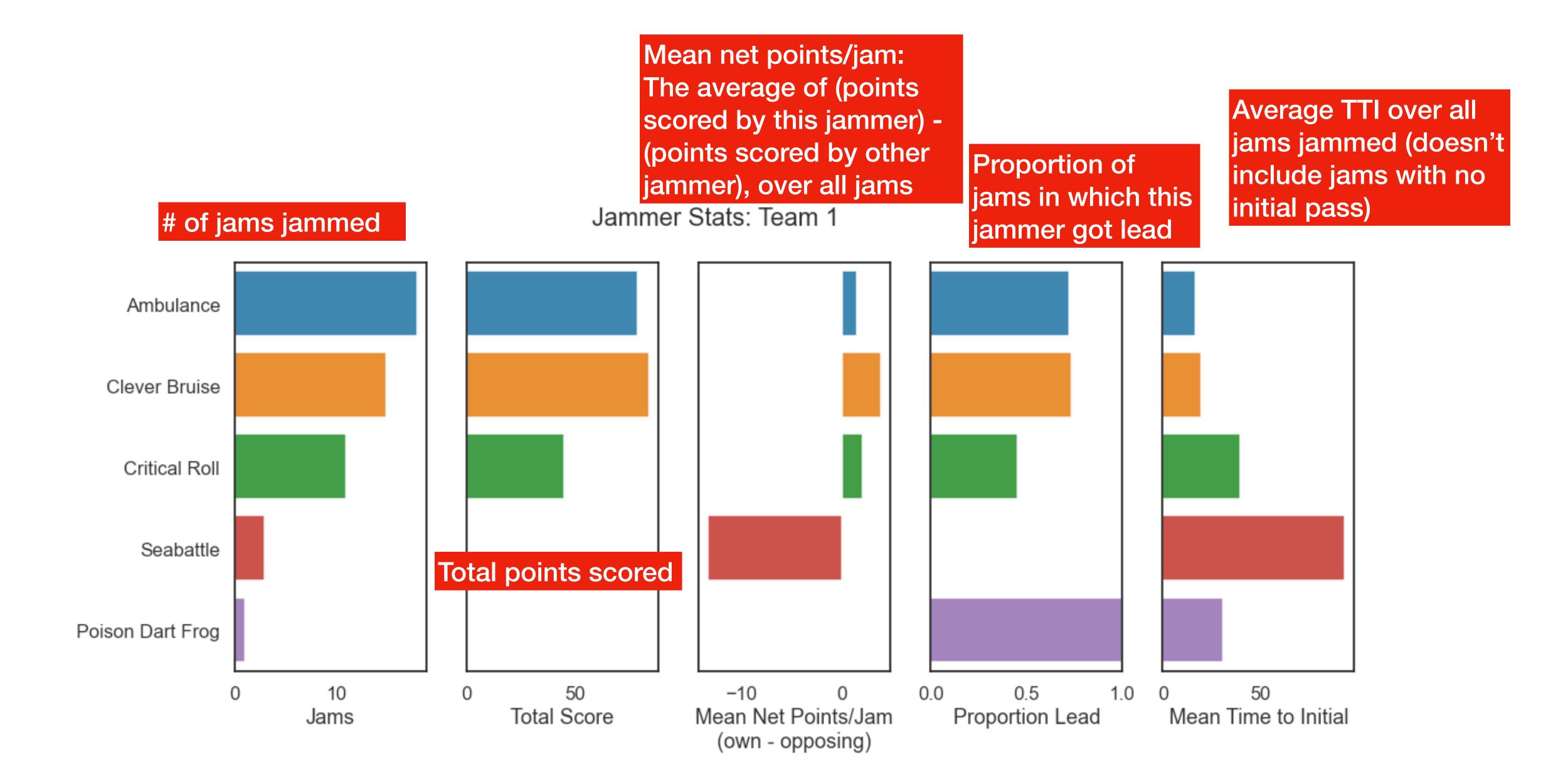
Score by Jam



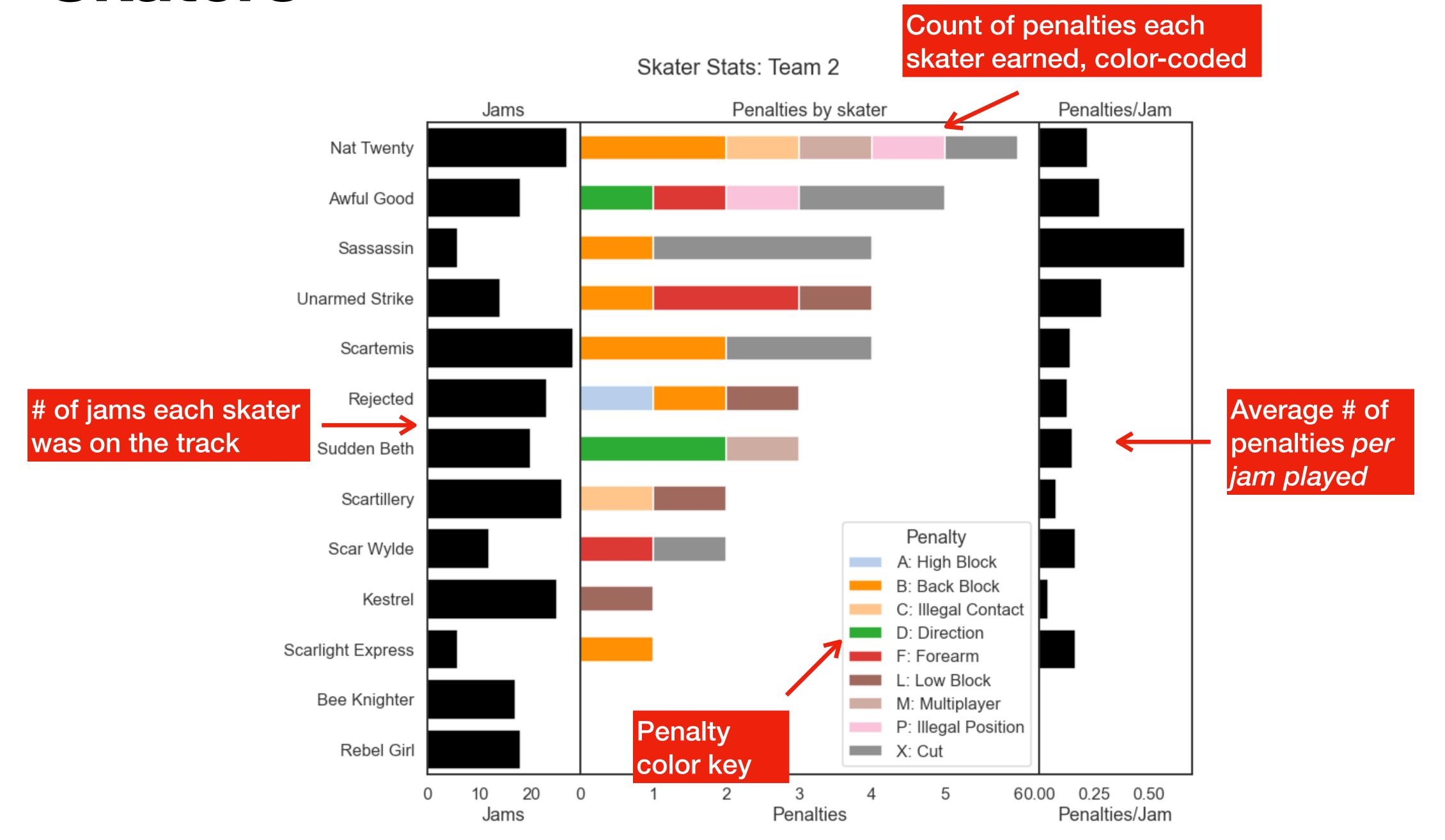
Team Penalty Counts

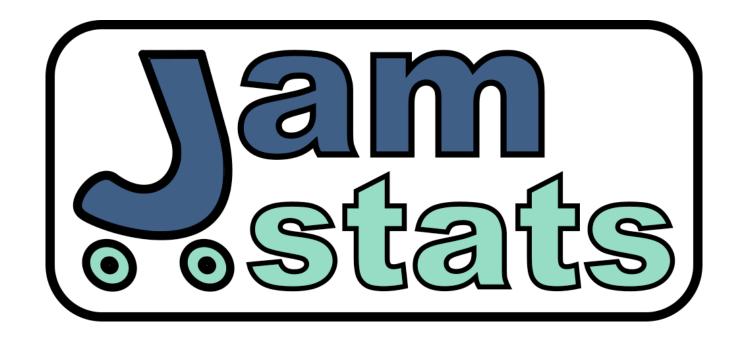


Jammers



Skaters



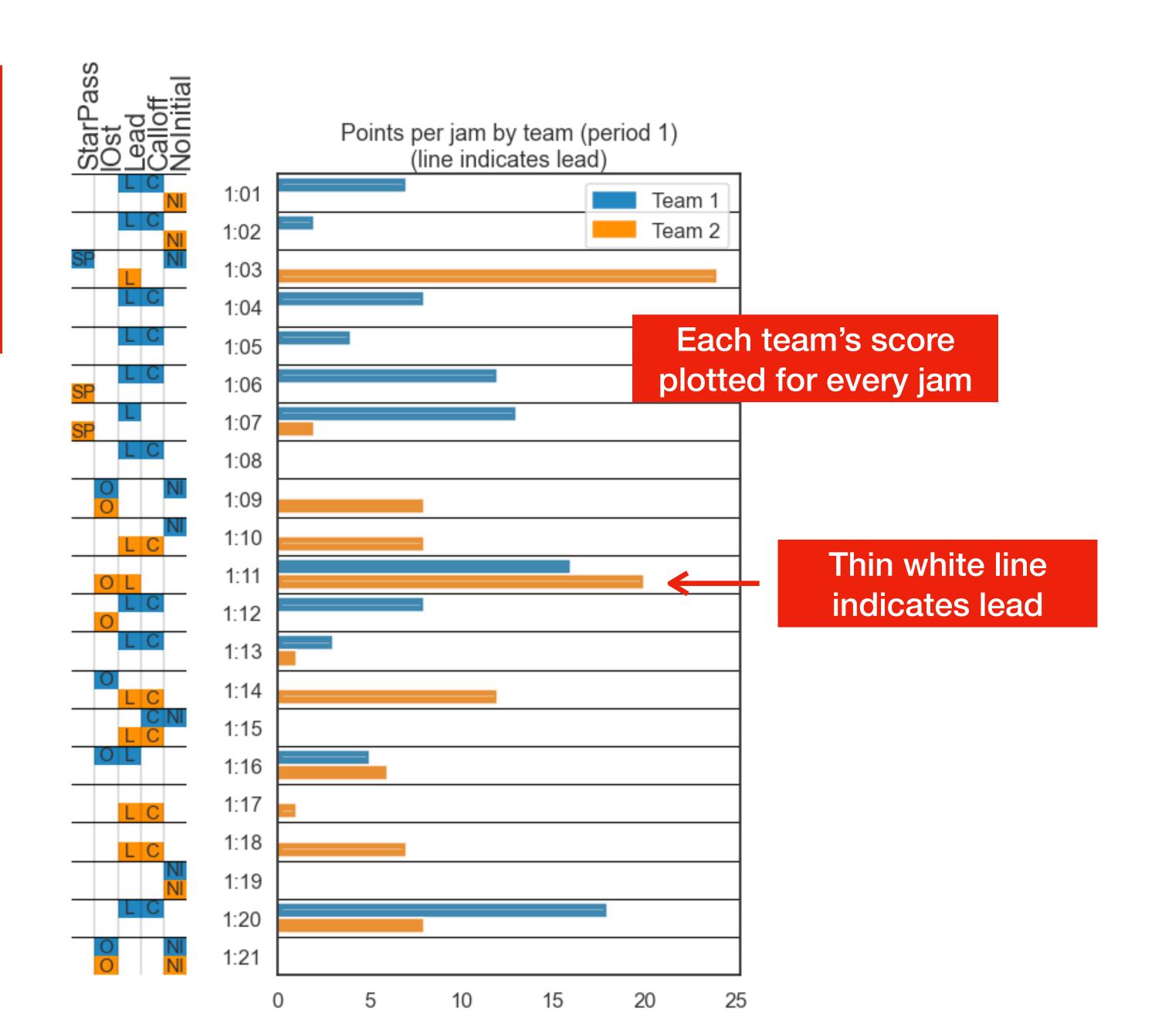


Advanced Plots

Jam Details

Jam attributes per team per jam, in similar format to scoresheets

- SP: Star Pass
- O: Lost lead
- L: Lead
- C: Called off jam
- NI: No initial pass



Lead Summary

Stacked bar plot shows number of jams in which each team had lead. Colors:

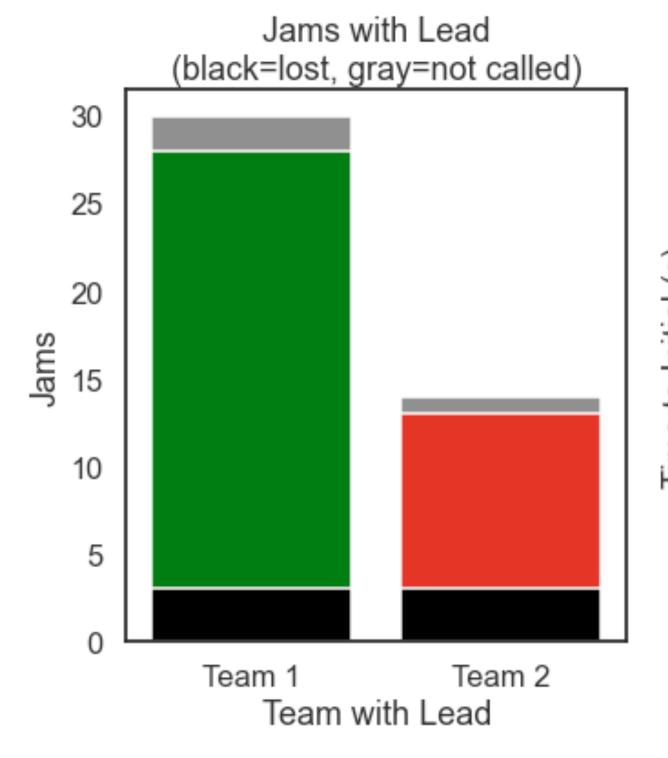
- Gray: not called off
- Team color: called off
- Black: lost lead

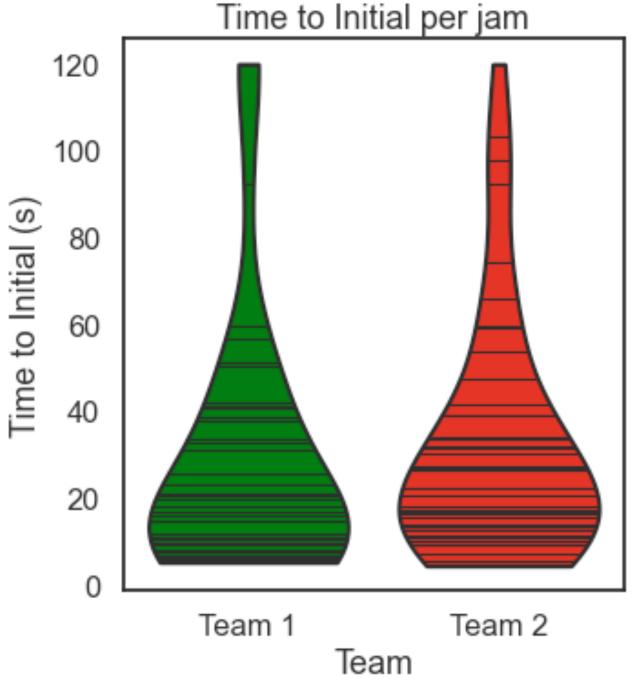
Violin plots show the distribution of TTI per jam, for each team. Lines in the middle are individual jam TTIs.

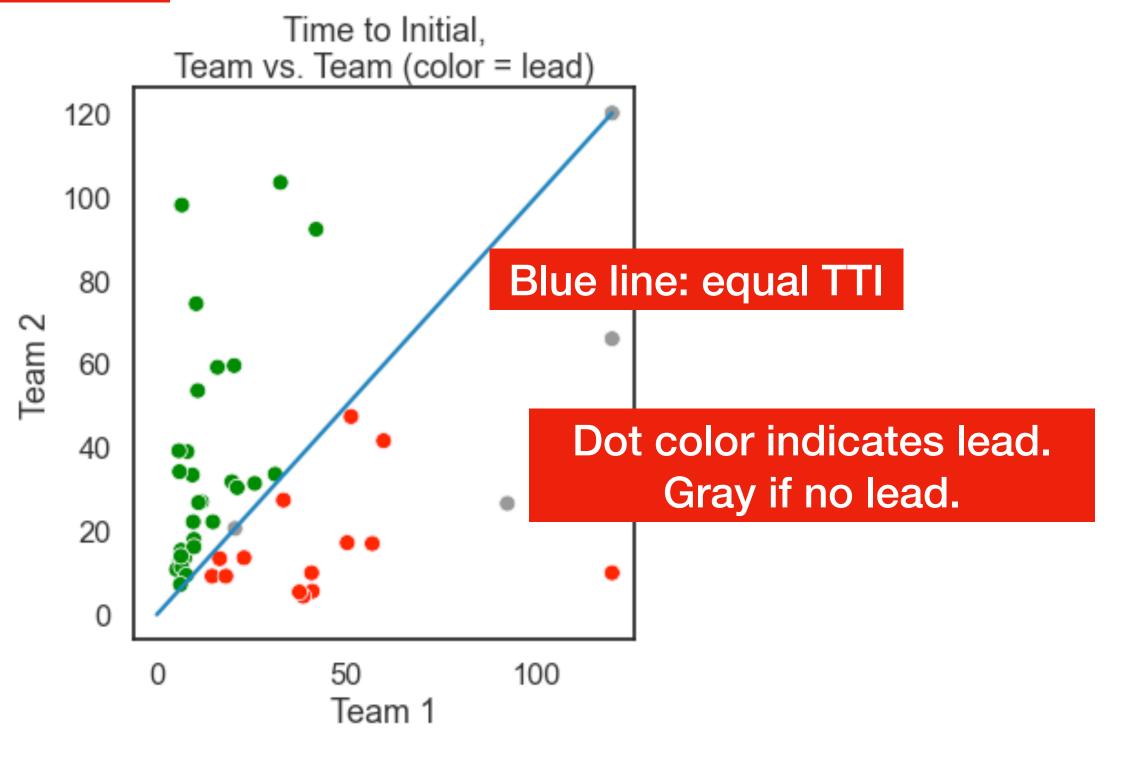
More lower-down data means faster TTIs!

TTI: Time to Initial Pass

This plot compares TTI between teams for each jam. Each dot is a jam, with TTI for each team on its axis.

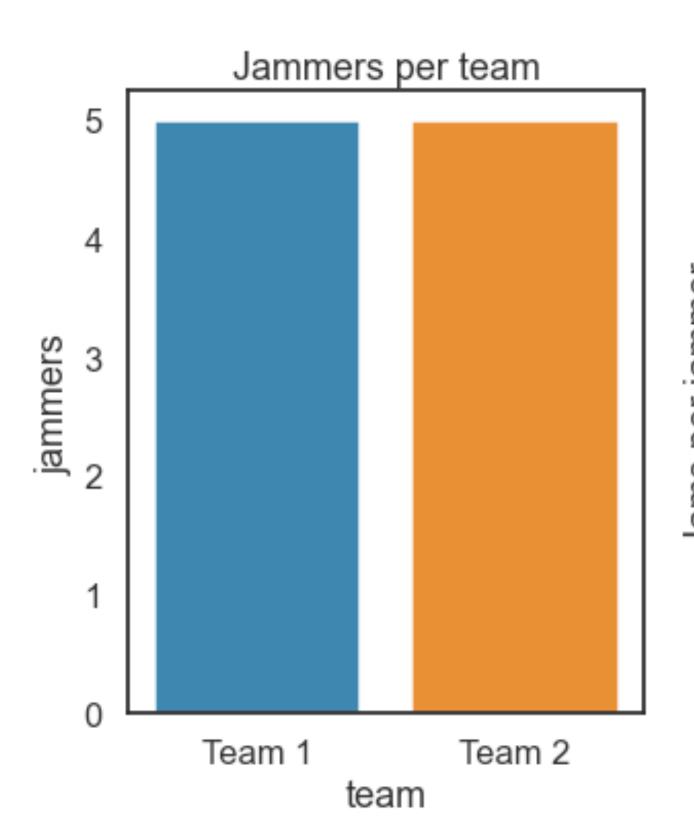






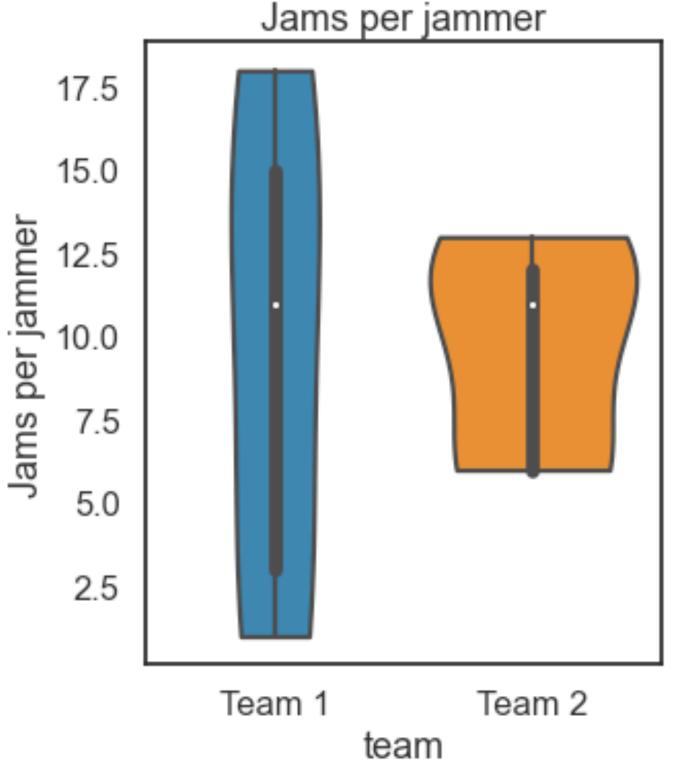
Jammer Summary

How many jammers jammed for each team



Distribution of the number of jams jammed per jammer (white dot: median)

These two teams used the same # of jammers, but Team 2 spread the jams around more evenly.



One dot per jammer, colored by team.

- X axis: number of jams that jammer jammed
- Y axis: average points scored per jam

Mean jam score vs. # jams per jammer

