

## Jamstats User Manual

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

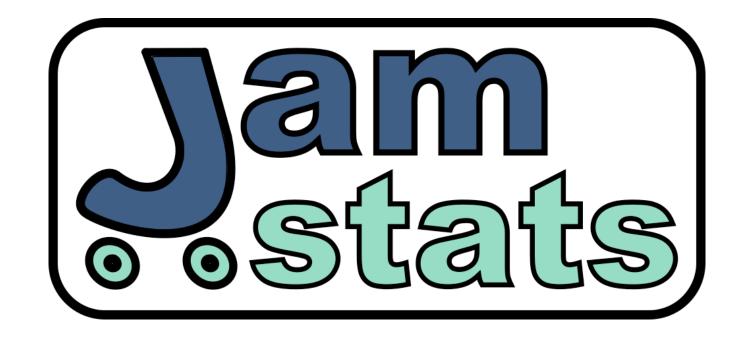
**Damon May** 

### 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:

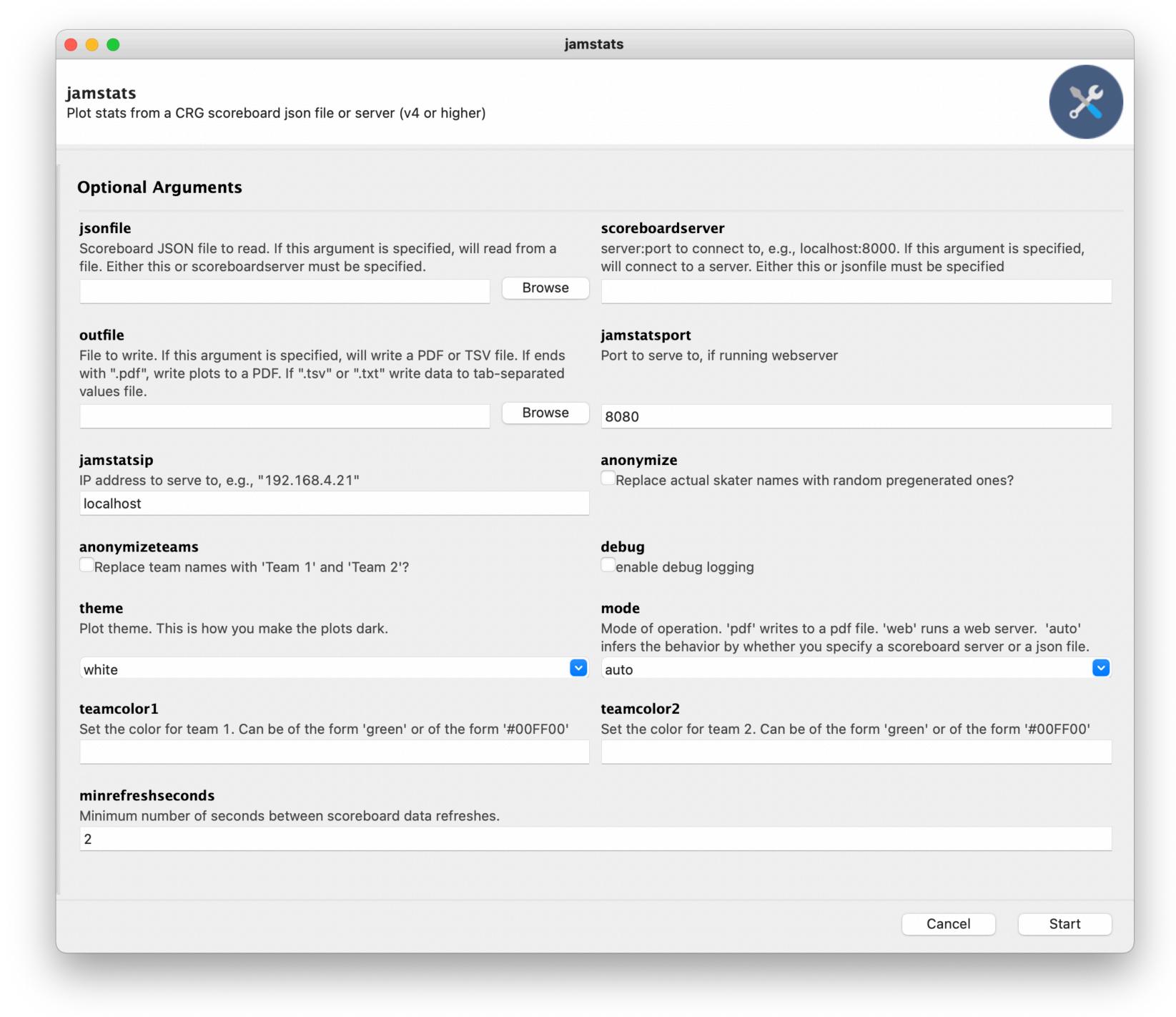
- Announcers tracking current skaters, jammers, pivots and penalties
- Coaches getting insights into how their teams played

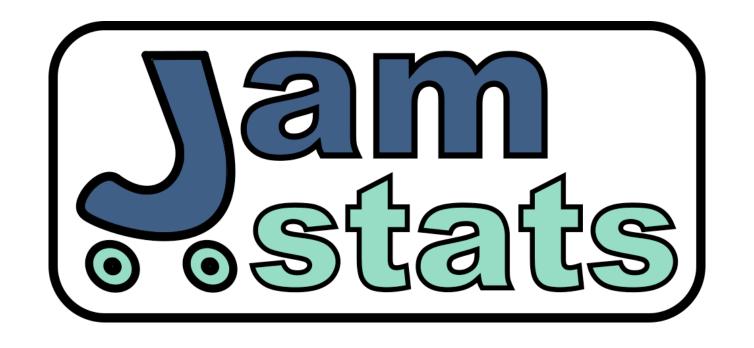


# Starting Jamstats

## **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", meaning Jamstats is only accessible from your machine
    - To make Jamstats available to browsers on your network, change "jamstatsip" to your IP address
- 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)

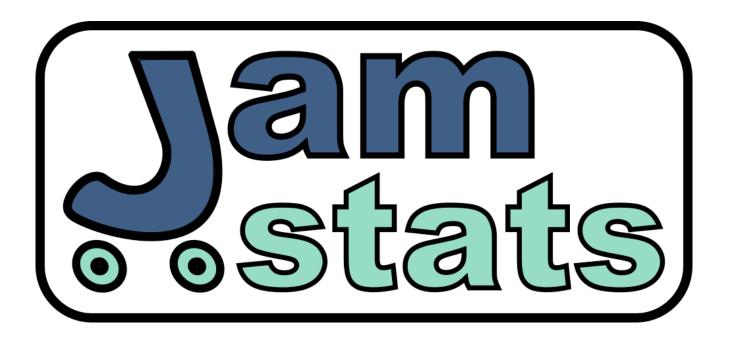
Jam Details (Period 2)

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		

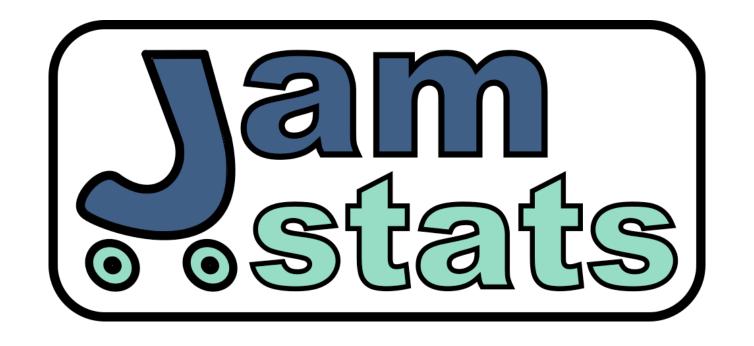
#### **Teams Summary**

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

#### Status:

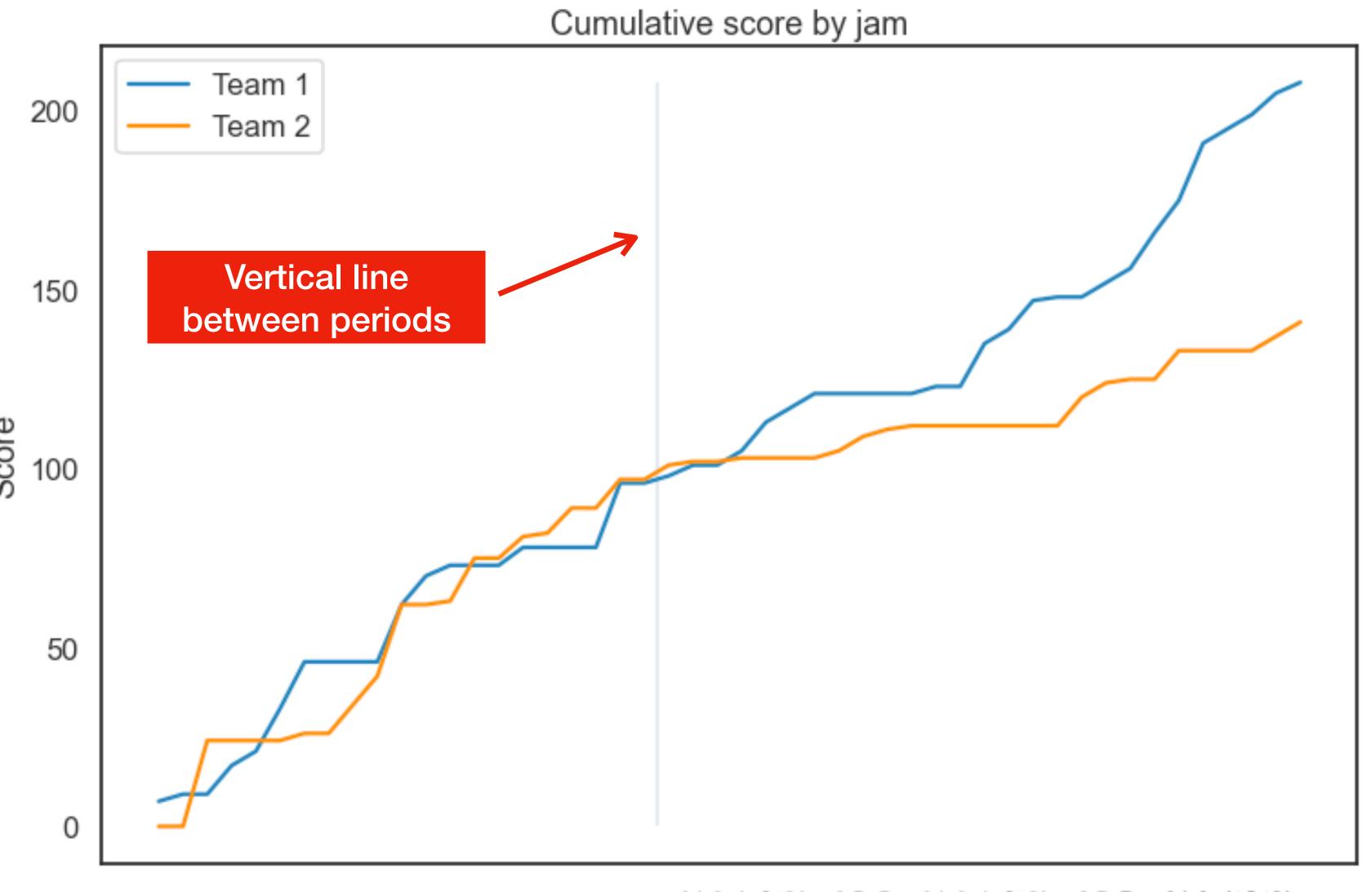
- Not Yet: player hasn't reported
- Serving: player is in box
- Served: player is back out of box

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

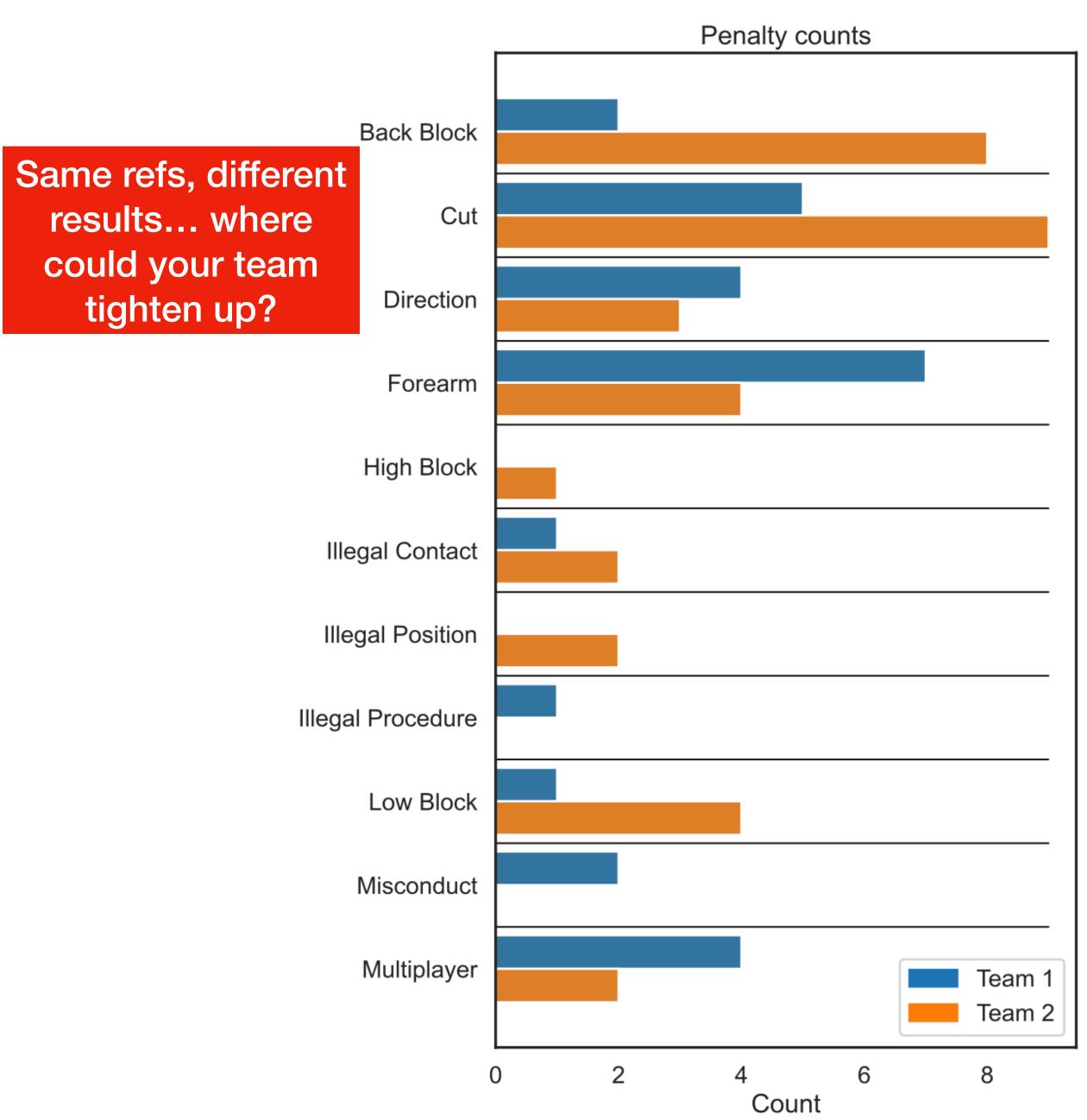


## Basic Plots

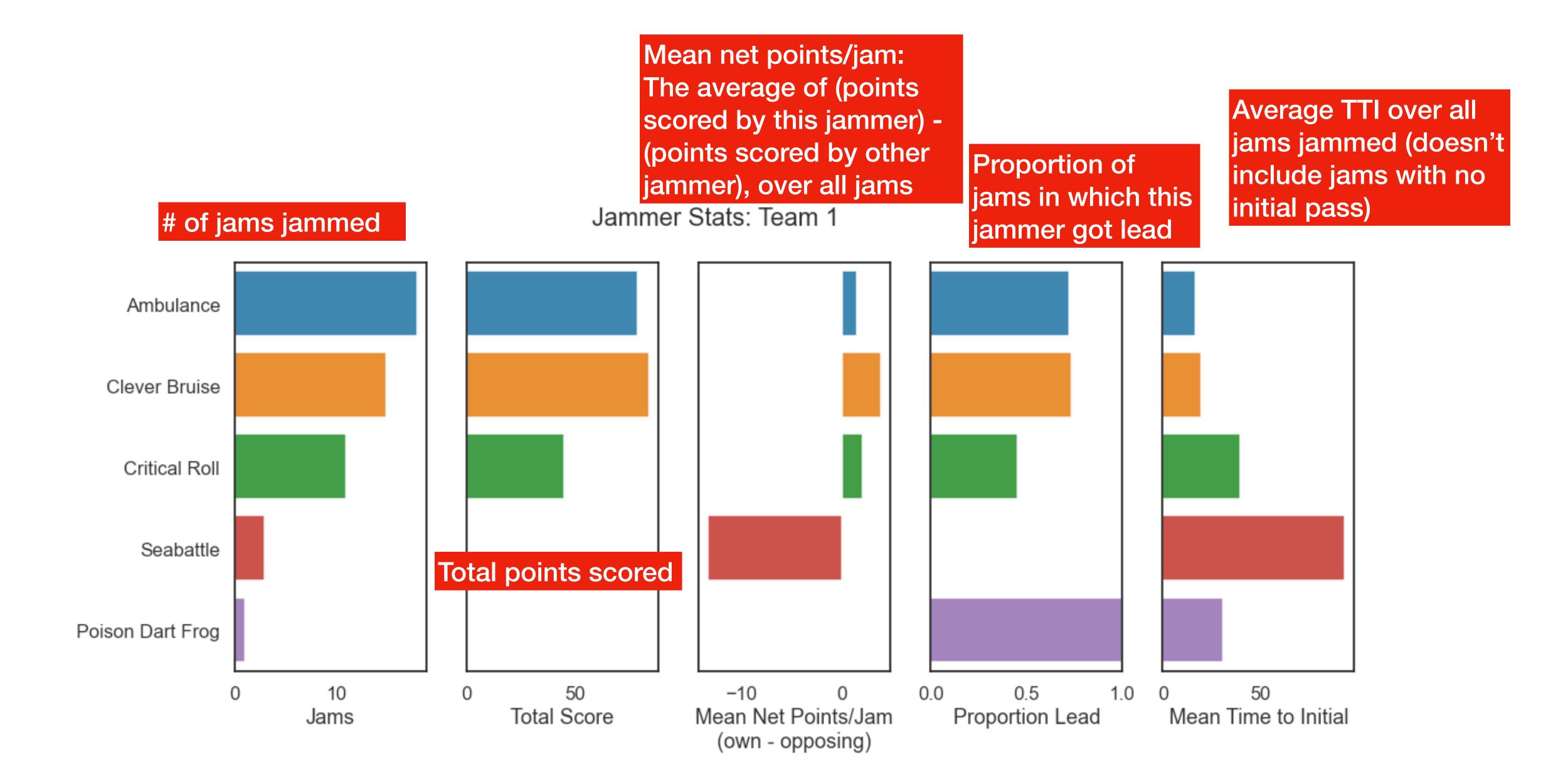
#### Score by Jam



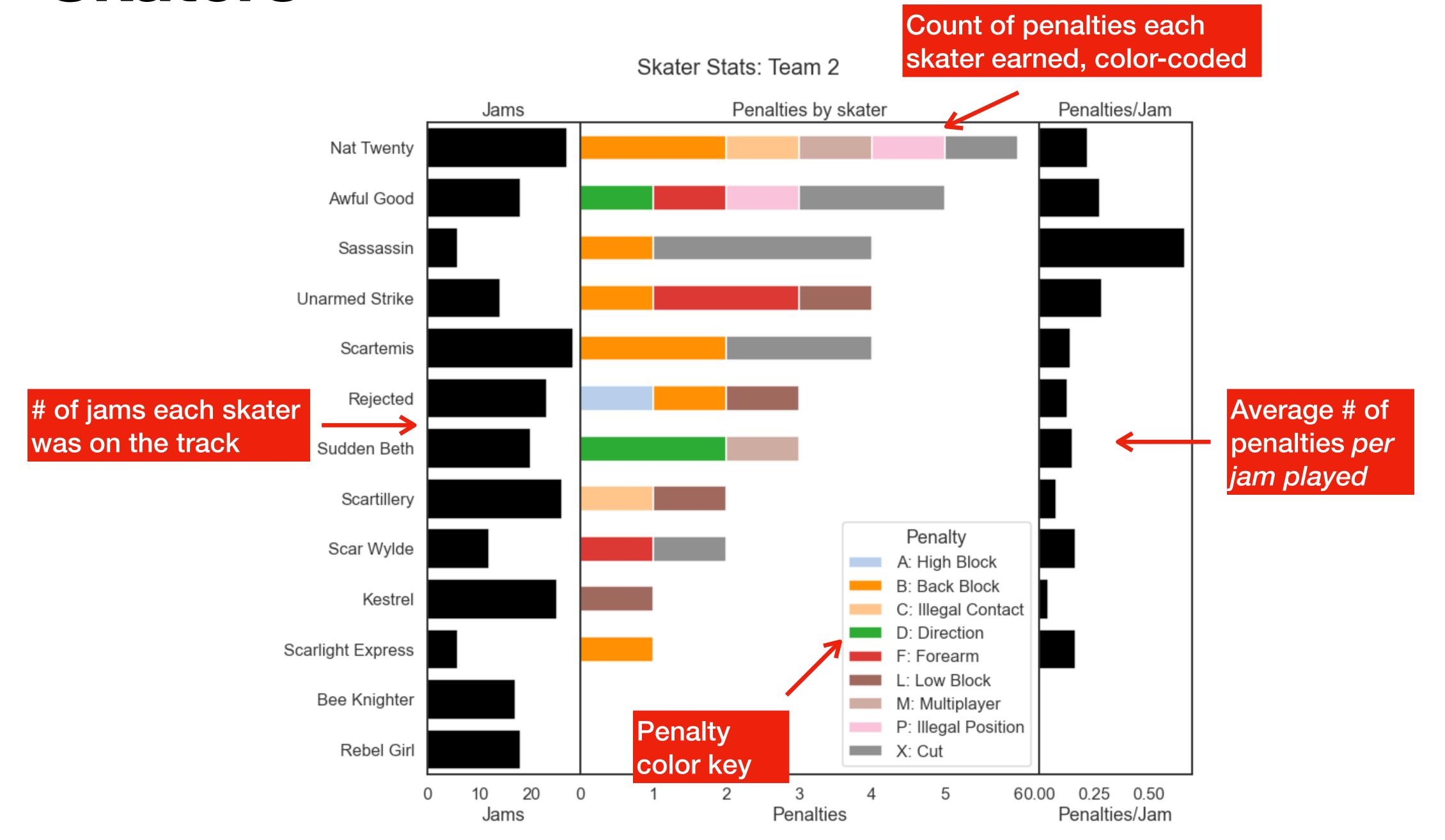
### **Team Penalty Counts**

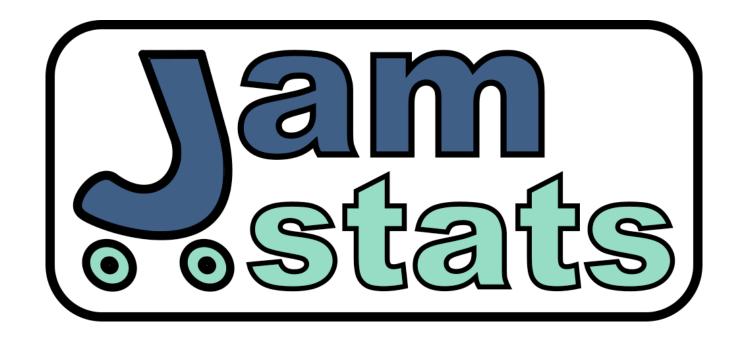


### Jammers



### Skaters



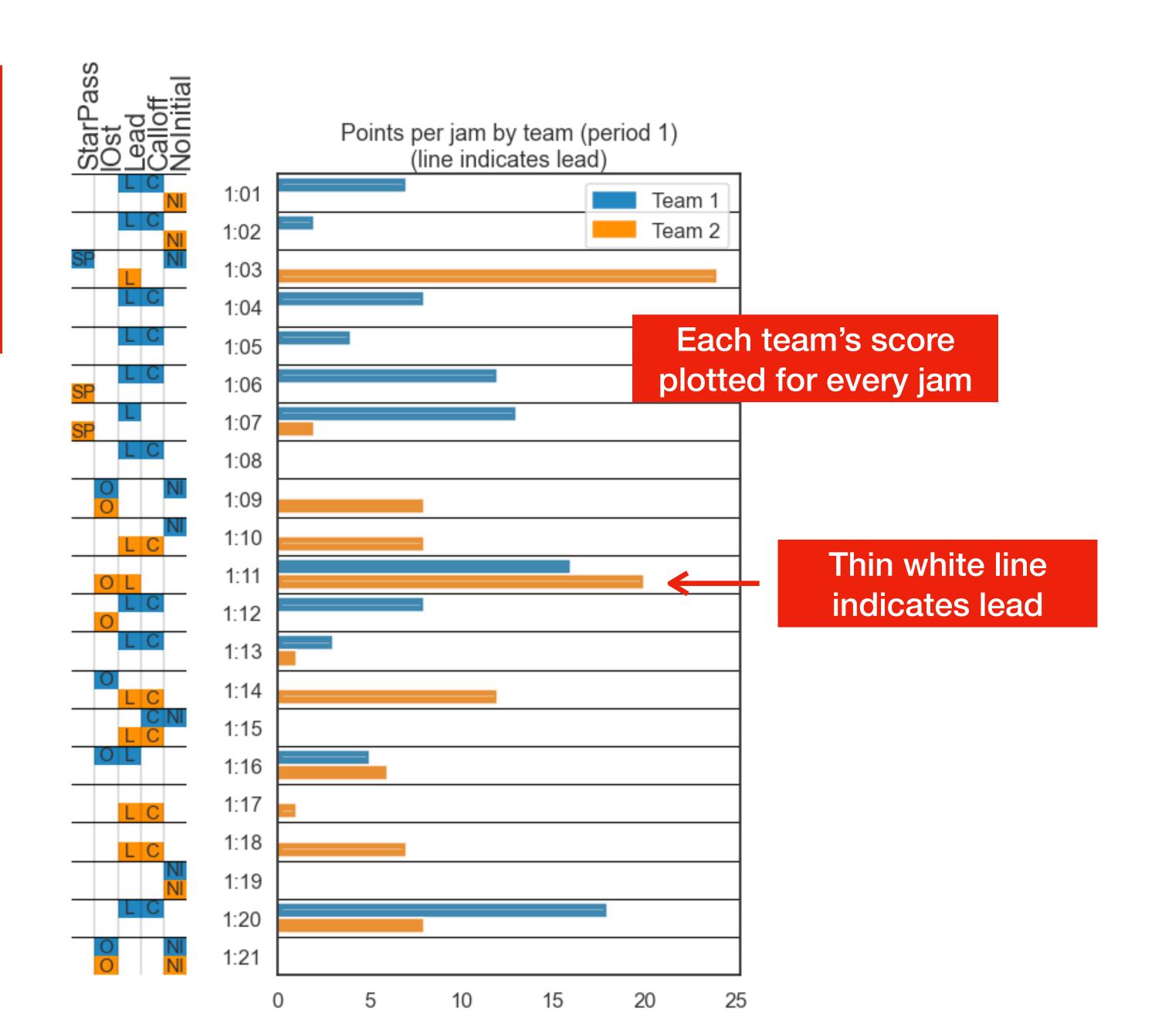


## Advanced Plots

### 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:

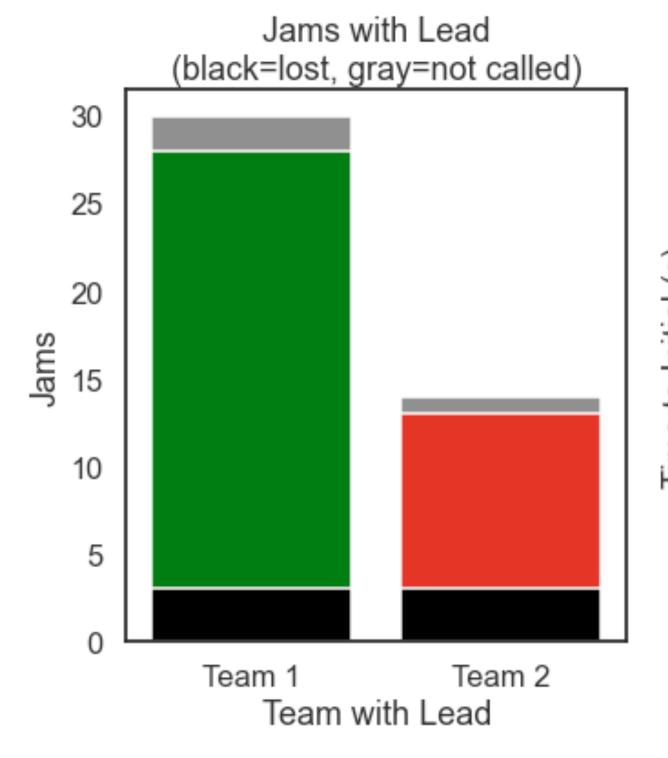
- Gray: not called off
- Team color: called off
- Black: lost lead

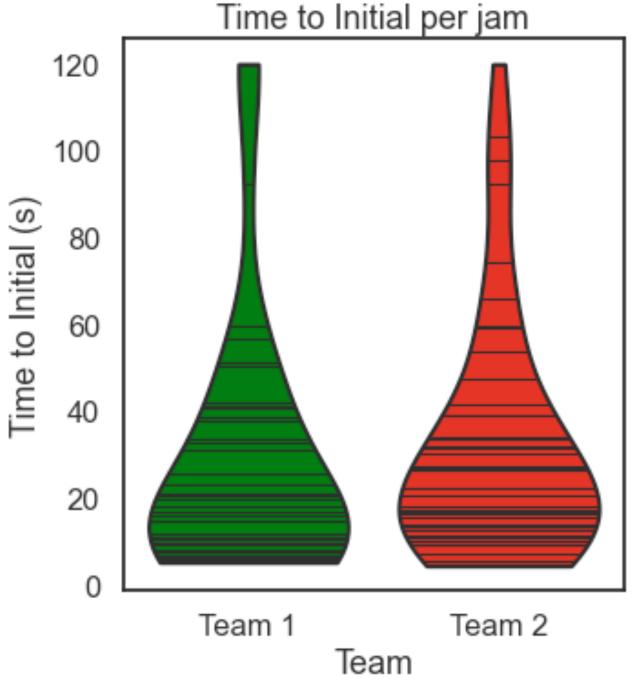
Violin plots show the distribution of TTI per jam, for each team. Lines in the middle are individual jam TTIs.

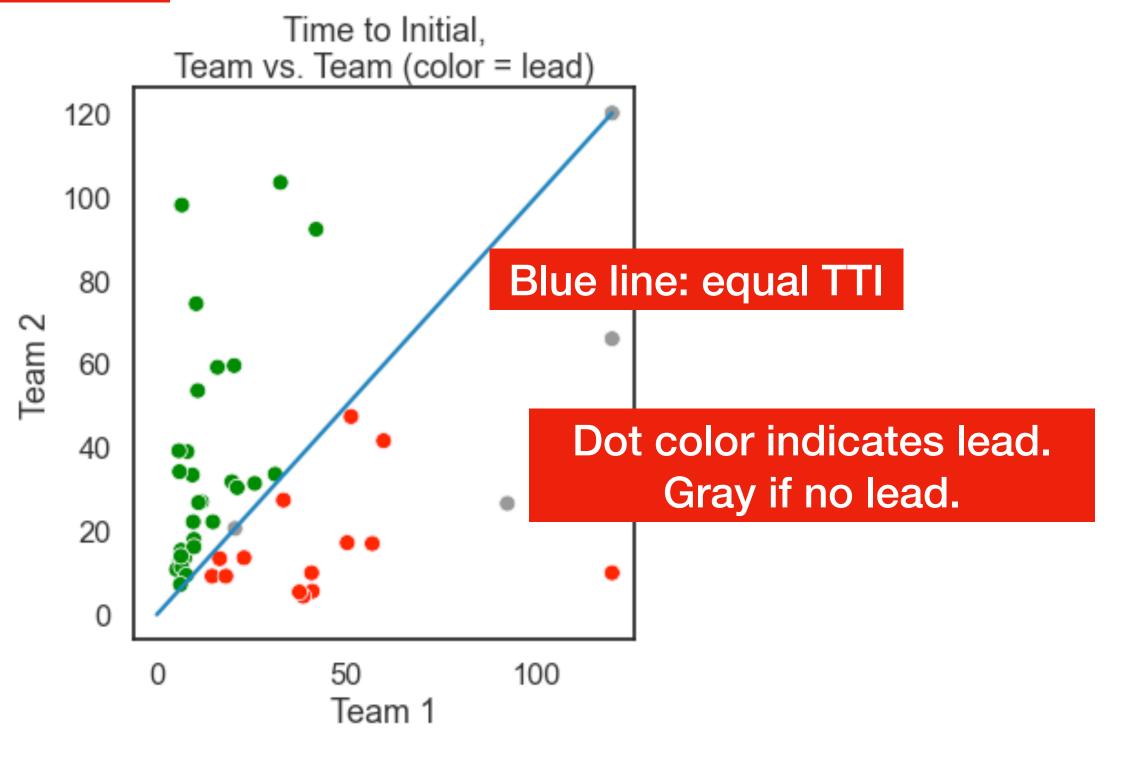
More lower-down data means faster TTIs!

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.

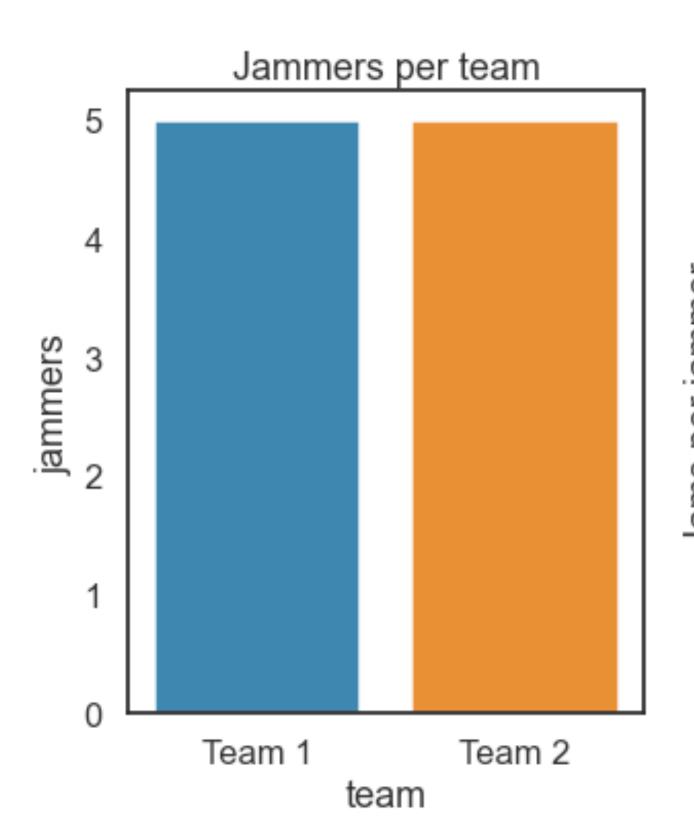






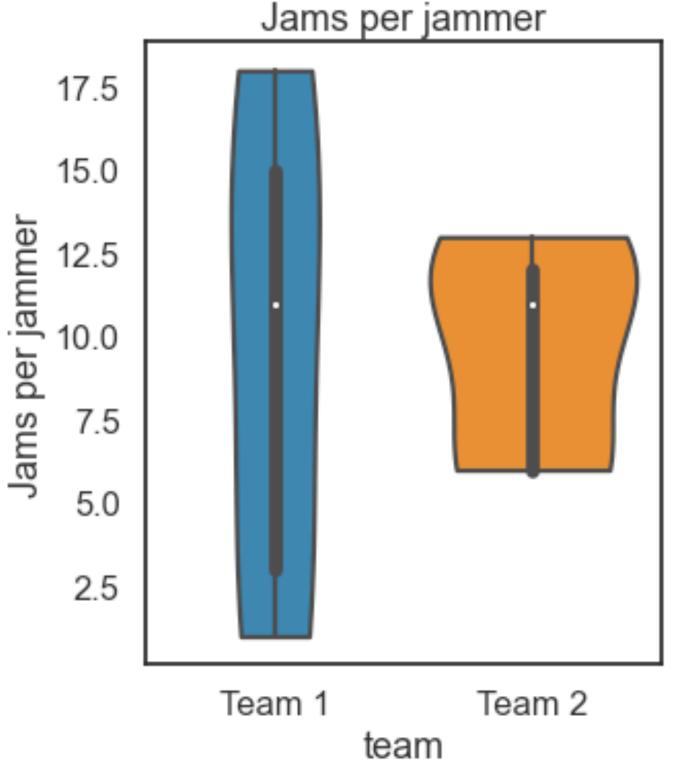
## Jammer Summary

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

