Introduction

Exploratory Analysis

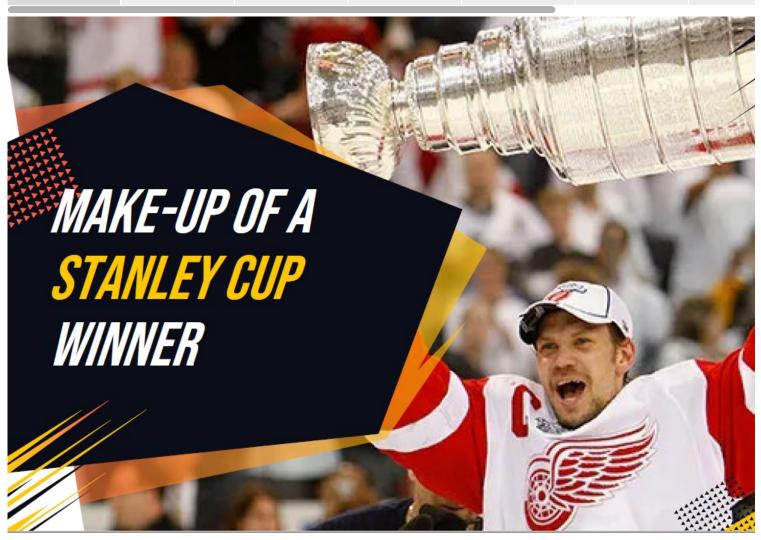
Where are players from?

Can teams win with only one player from ..

Do Height and Weight matter?

Does Age Matter?

Can age predict ice ti...



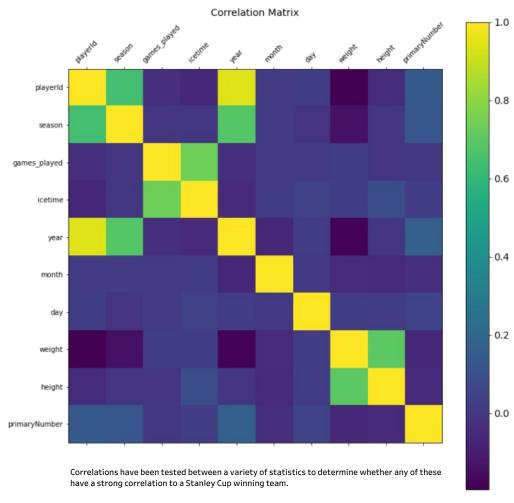
Do Stanley Cup winning teams have specific traits?

Hypothesis: We can determine the success of a team from their demographics.

Does player nationality matter? Does height or weight matter? Do cup winning teams have age trends?

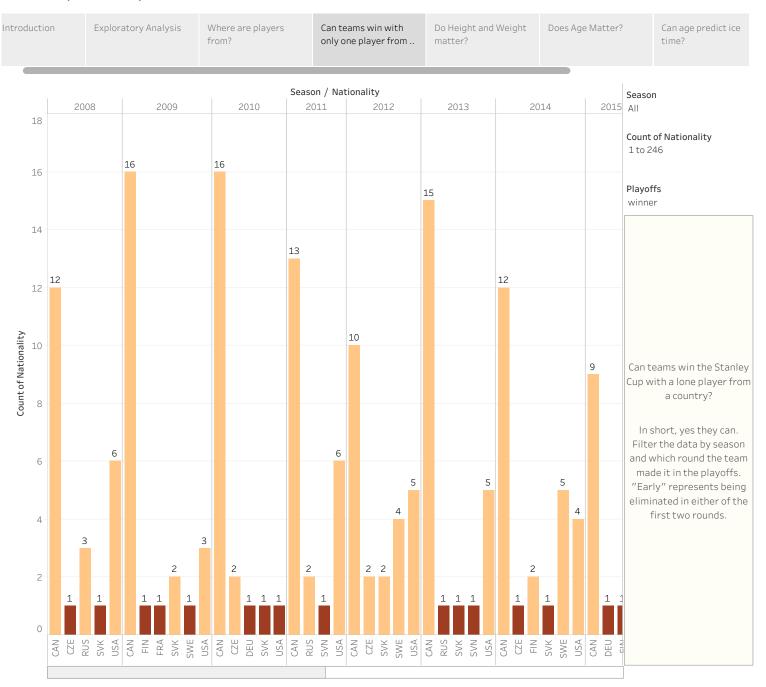
What data has been analyzed?

Introduction Exploratory Analysis Where are players from? Can teams win with only one player from ... Do Height and Weight matter? Does Age Matter? Can age predict ice ti...



The following slide "Exploratory Analysis" is an entry point to the data, seeing if there appear to be any correlations right off the bat.

Introduction Exploratory Analysis Where are players Can teams win with Do Height and Weight Does Age Matter? Can age from? only one player from .. matter? predict ice ti.. Nationality Season ΑII Playoffs conference_final early runner-up ✓ winner Count of Nationality This map shows all of the players that have played in the NHL playoffs from 2008-2022. Play around with the filters to see which nationalities have won the Stanley Cup and in which years. © 2022 Mapbox © OpenStreetMap





Where are Can teams win with Do Height and Weight Does Age Matter? Can age predict ice Insights Next Steps players from? matter? time? only one player from .. Season / Age Range Season 2017 AII 2008 2009 2010 2011 2012 2013 2014 2015 2016 16 Playoffs 15 winner Games Played 14 Multiple values 13 Playoffs winner 12 11 11 10 10 Count of Age Range Does age matter? 9 The data leads us to 8 8 8 believe that there is no difference in having an older team vs younger team, as there is a variety 6 6 of ages on a Stanley Cup 6 winning team. However, it's good to have a balance 5 5 of older veterans and younger up-and-coming players, with the majority 4 of your players in their 3 3 prime. Younger players are 3 often on entry-level contracts, an important 2 2 2 2 aspect with the salary cap in effect. A future project could be to break down under23
23-26
27-32
0 over 33
under23
under23
0 over 33
under23
23-26
27-32
0 over 33
under23
0 over 33
under23
23-26
27-32
0 over 33
under23
23-26
27-32 each team's salary cap structure.



Where are

Can teams win with players from? only one player from ..

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Insights

Next Steps

- Upon the completion of this analysis, we have found no significant insights.
- Exploratory Analysis: the strongest correlations were ice time and games played, player id and year, and height and weight.
- Teams can win the Stanley Cup with only one player from a nationality. A further question would be who are these players? Are they young? Have they acclimatized to play in North America?
- Height and weight do not have a strong correlation to a Stanley Cup winning team. Teams on average are six pounds lighter in 2021-22 than 2008-09.
- Players on successful teams are a variety of ages, young players are great for salary cap purposes, while older players bring experience and leadership.

Where are

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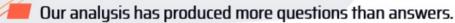
Does Age Matter?

Can age predict ice time?

Insights

Next Steps

NEXT STEPS: QUESTIONS TO EXPLORE



- The data we have analyzed (height, weight, nationality, age), will the results change if we break it down further into specific positions?
- Are there any trends as to which nationalities have success in the playoffs?
- Do specific countries produce certain positions?
- Breaking down each team's salary cap structure, can we find any insights or trends?

LIMITATIONS AND ETHICS

- At this point a limitation is that players are given country but not state or province.
- Data was collected by several statisticians; this could affect the quality of data.
- Game Score was calculated for Skaters but not for Goalies.
- Players may play any number of positions, the one chosen for this project is their primary position.