Make Up of a Cup Winner

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?

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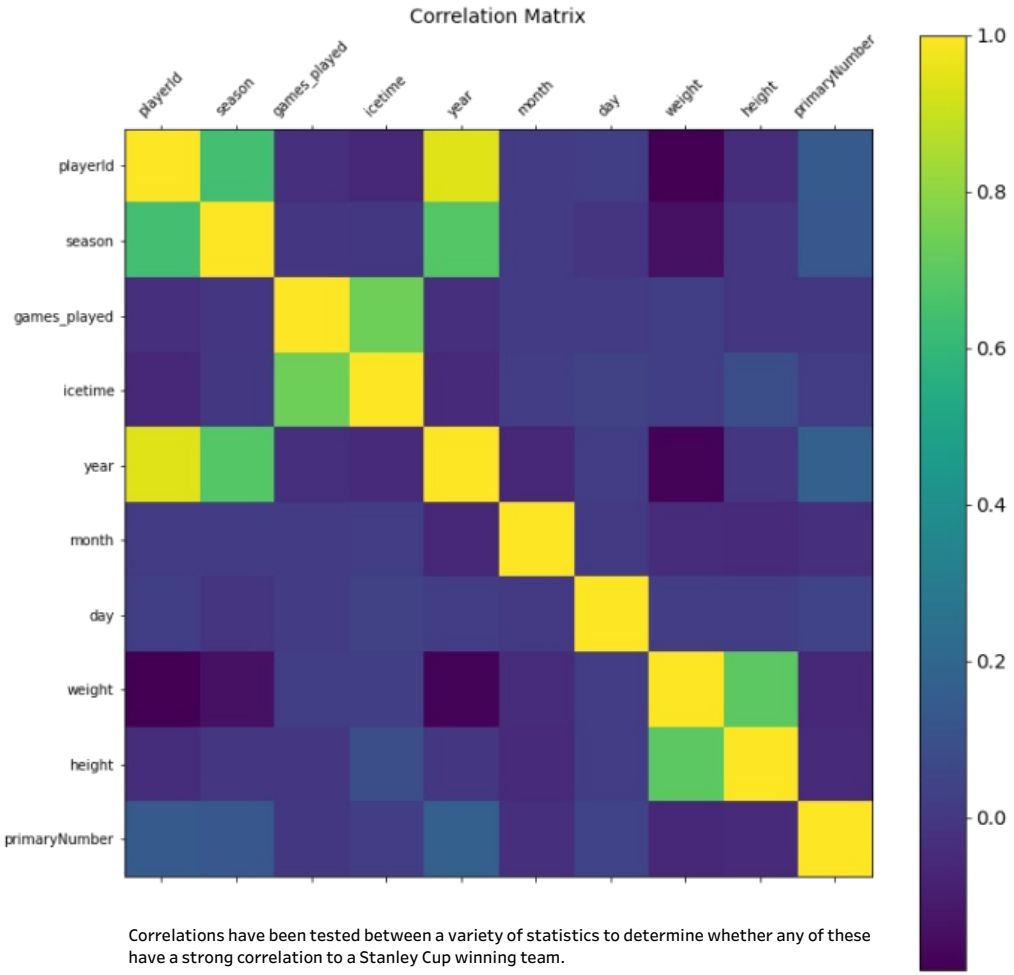

Correlations have been tested between a variety of statistics to determine whether any of these have a strong correlation to a Stanley Cup winning team.

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

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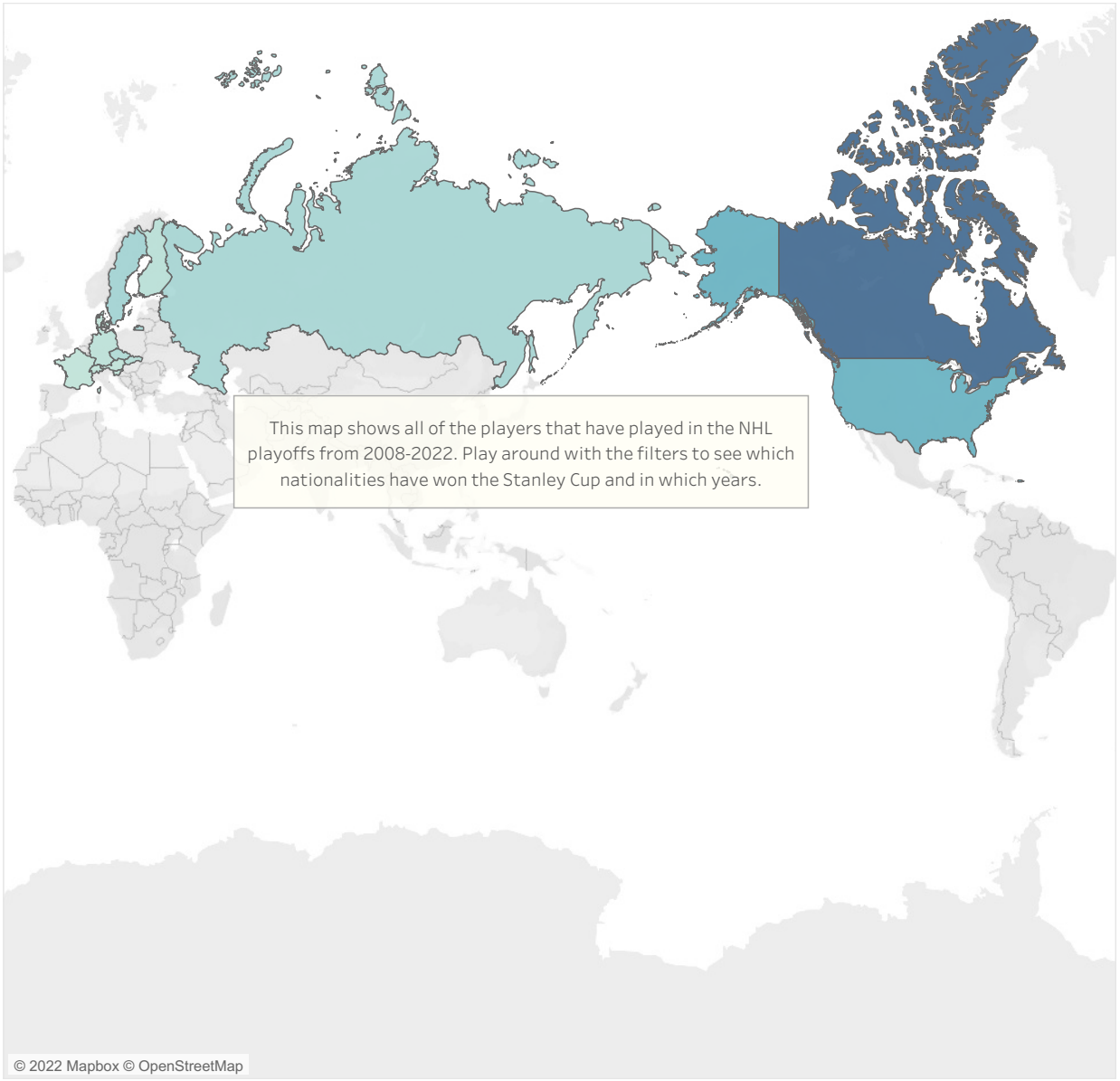

Nationality
All

Season
All

Playoffs
- [ ] conference_final
- [ ] early
- [ ] runner-up
- [x] winner

Count of Nationality
1 — 168

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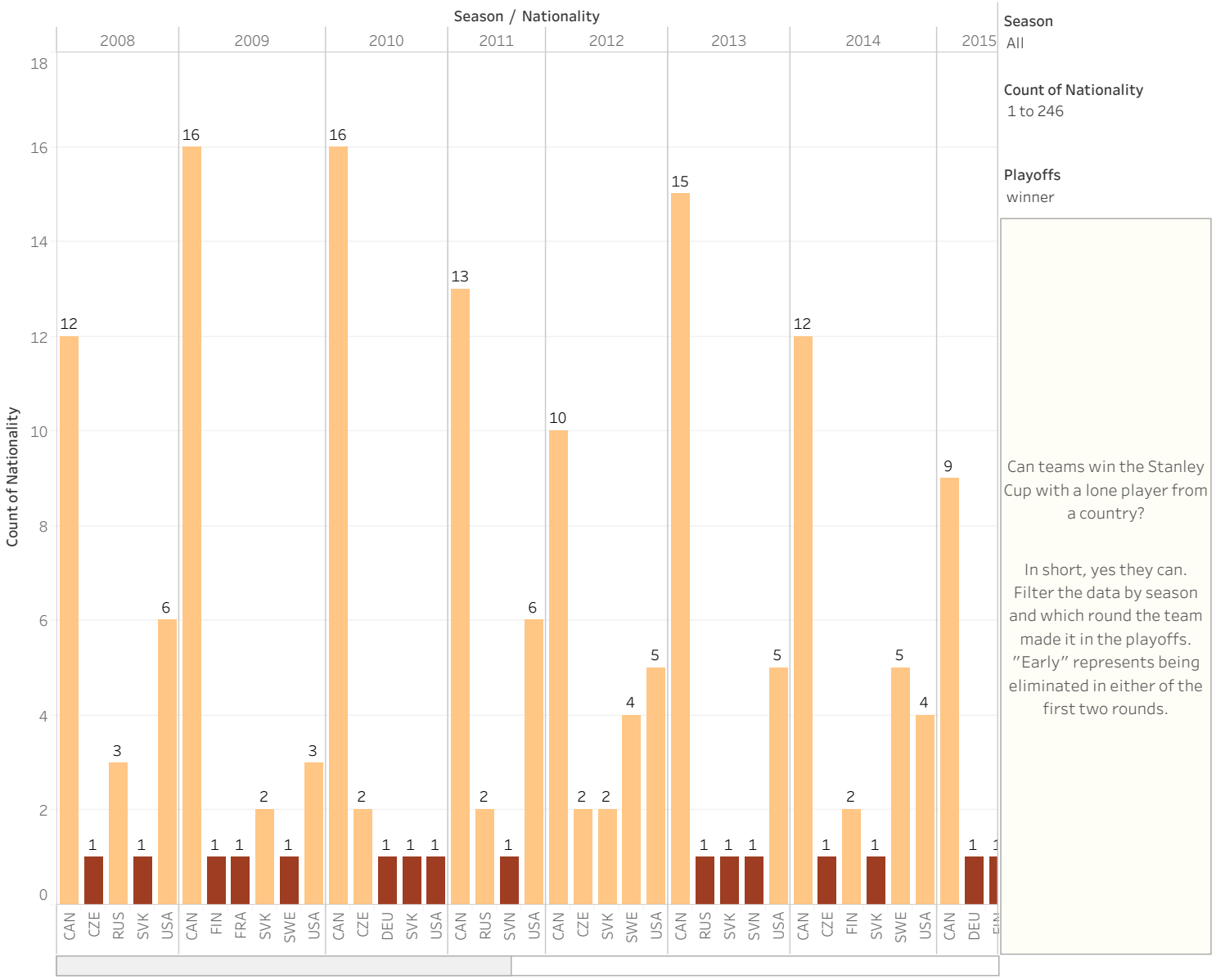

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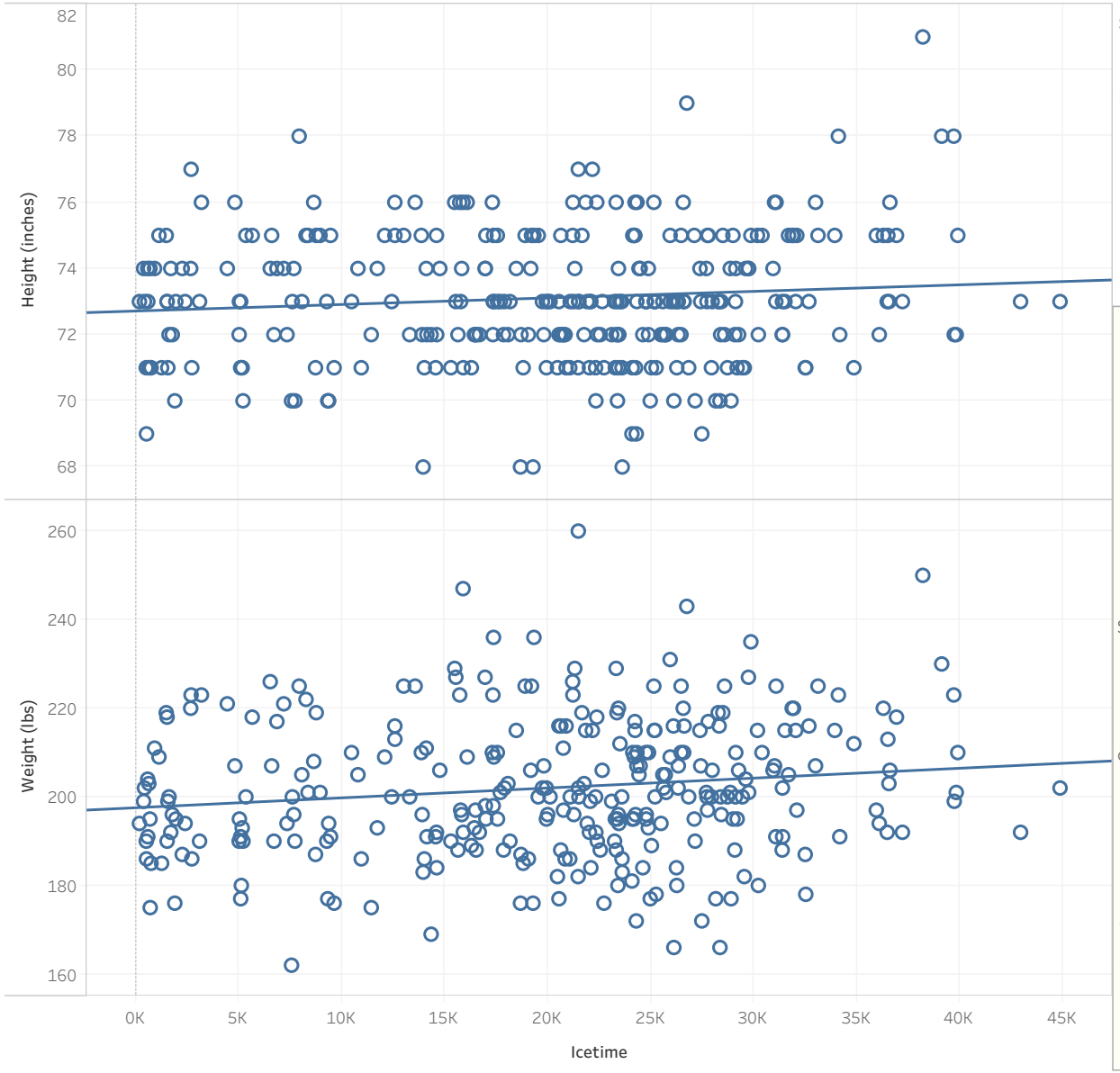

Does height or weight matter to a Stanley Cup winning team? Has the composition of a team changed since 2008 until now?

Filter the data to find that neither weight nor height have strong correlations to Stanley Cup winning teams. However, you will see that the average player weighs about 6lbs less than 13 years ago. Ice time was chosen for the X-axis as it is a good indicator that their team went far in the playoffs, the more games, the more ice-time.

Afte analyzing the P-values for weight and height vs ice-time, it appears there is no strong correlation between the variables.

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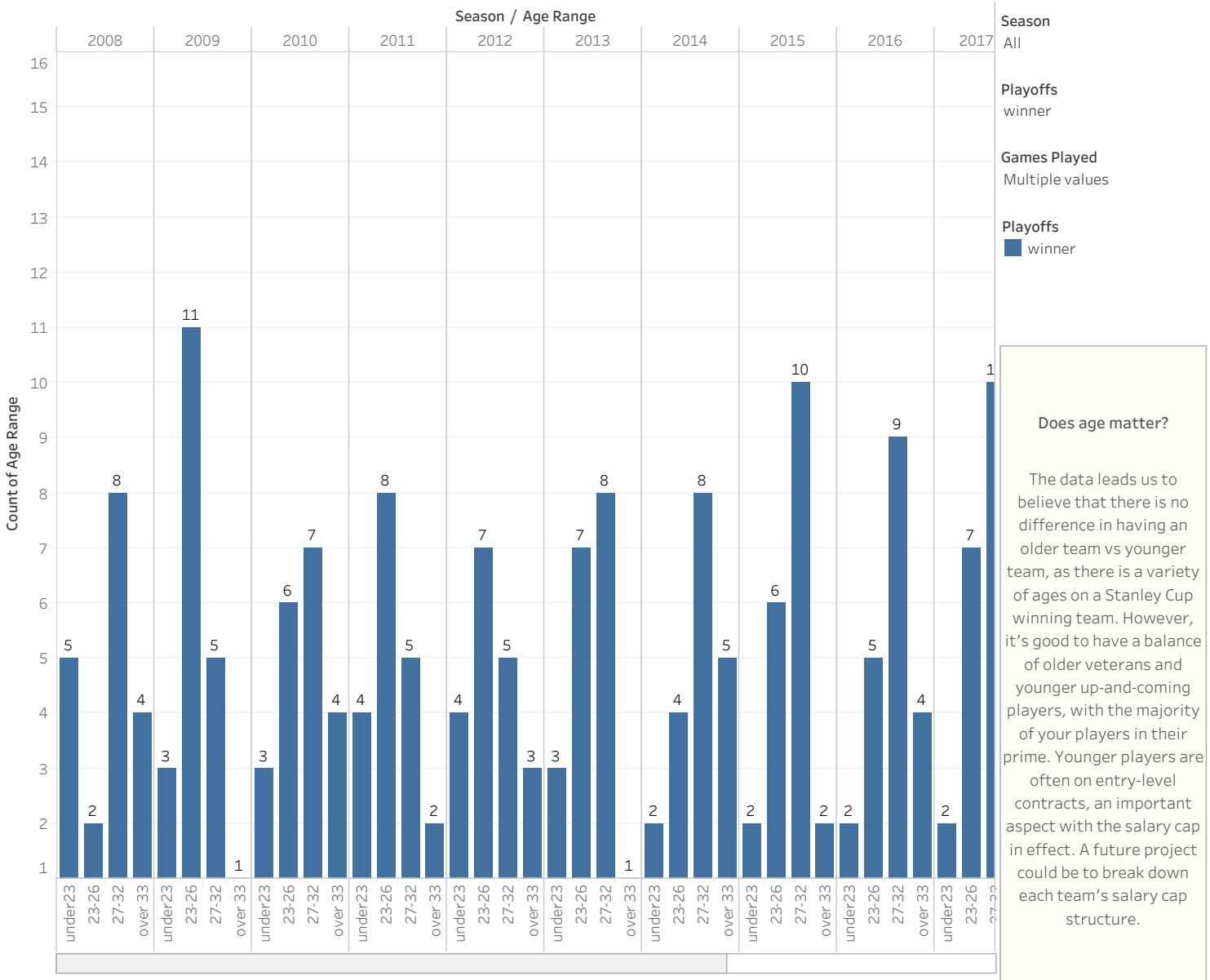

Does age matter?

The data leads us to believe that there is no difference in having an older team vs younger team, as there is a variety of ages on a Stanley Cup winning team. However, it's good to have a balance of older veterans and younger up-and-coming players, with the majority of your players in their prime. Younger players are often on entry-level contracts, an important aspect with the salary cap in effect. A future project could be to break down each team's salary cap structure.

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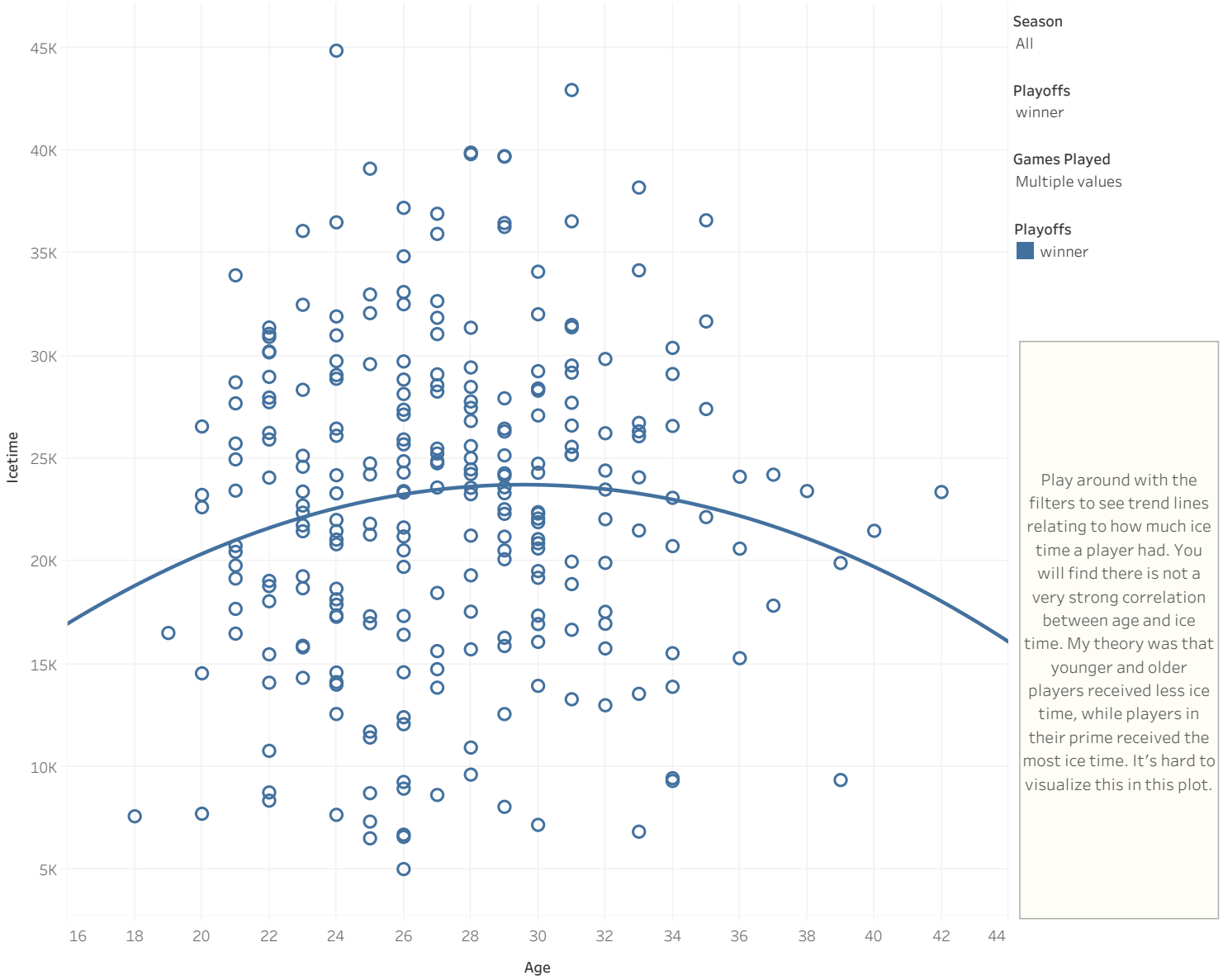

Play around with the filters to see trend lines relating to how much ice time a player had. You will find there is not a very strong correlation between age and ice time. My theory was that younger and older players received less ice time, while players in their prime received the most ice time. It's hard to visualize this in this plot.

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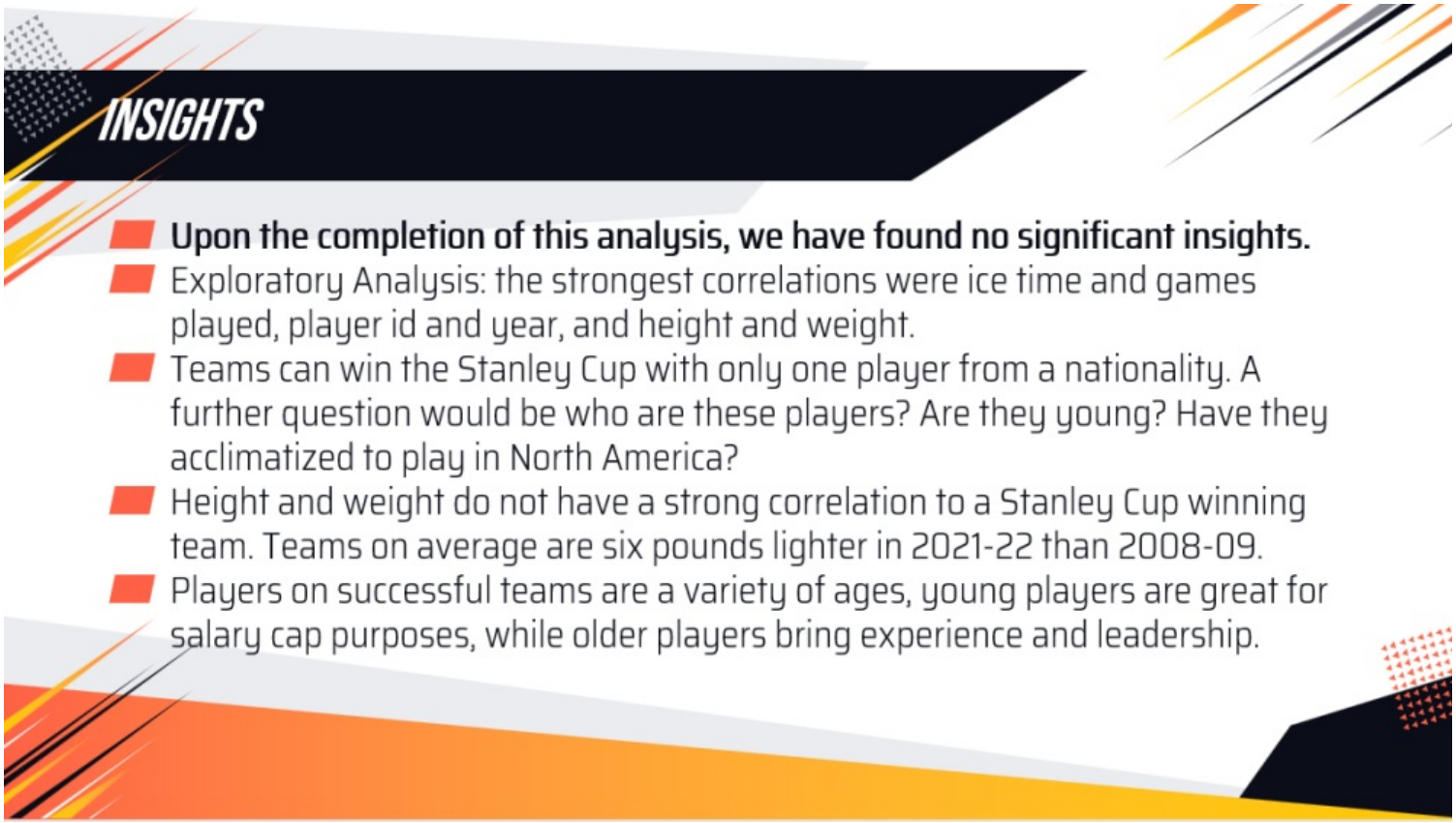
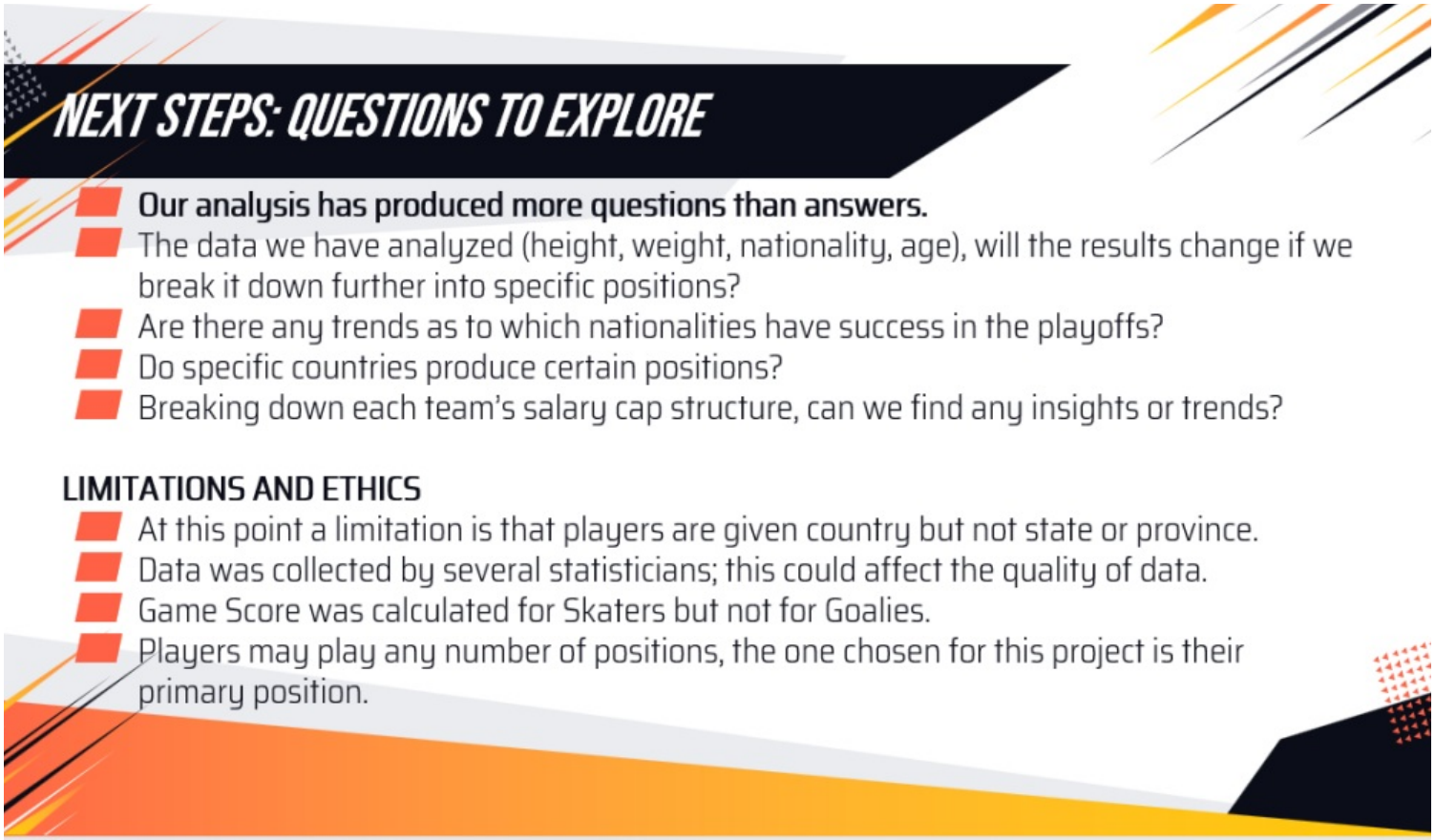
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