

Greg Smith

Project Name TBD

Discovery

Idea

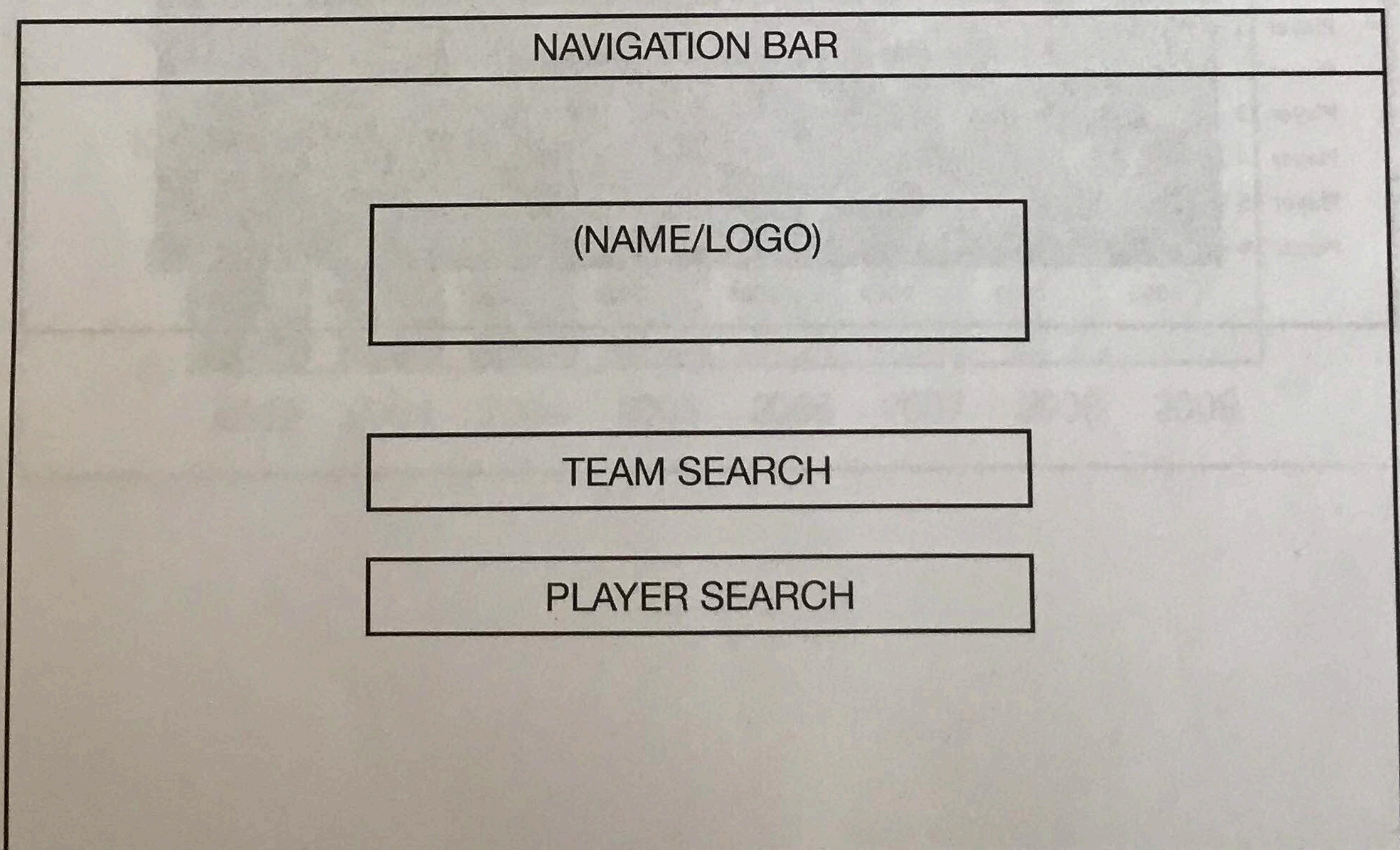
Most sports data is created or analyzed using very rudimentary methods and very rarely programming or more advanced computational models (especially hockey), even among fan sites and professional reporting.

I want to use a machine learning model to predict future statistical output from past player performance across NHL history, initially with goals and assists.

User Story:

Our user Greg visits the site and first navigates to the homepage, showing a banner across the top with links to all NHL teams and dropdown menus that allow searching by team name and league (if data is available for euro leagues) and a text search box allowing search by player name.

Homepage:



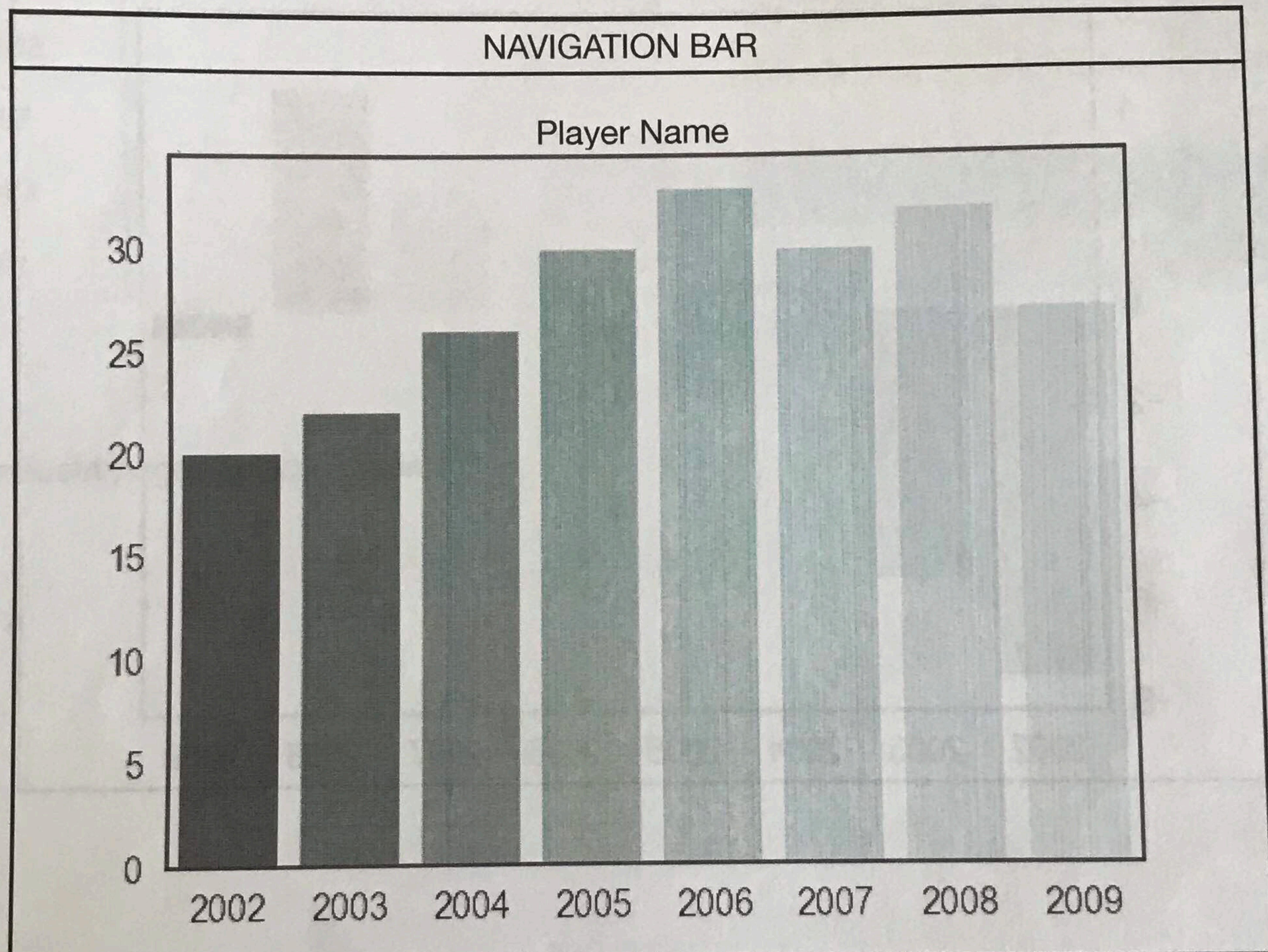
He searches for his favorite team, which redirects to the team view, a player x year grid of numerical time-series data (points) broken down by year, up until the projected end of each player's career. Real and future data are separated by a solid line, and the x axis is scrollable up until the last payer's career ends in year 20??.

Team Page:

NAVIGATION BAR								
Player 1	12	14	16	18	20	20	21	17
Player 2	20	22	26	30	33	30	32	27
Player 3	19	17	19	20	22	12	26	20
Player 4	10	12	13	13	10	16	19	12
Player 5	25	20	28	30	34	37	31	30
Player 6	8	10	9	11	12	10	7	3
Player 7	12	18	16	20	24	20	15	16
Player 8	10	12	13	13	10	16	19	12
Player 9	14	17	18	17	20	13	12	16
Player 10	12	18	16	19	14	16	17	10
Player 11	22	22	23	25	22	22	23	22
Player 12	8	10	8	9	9	9	12	11
Player 13	6	8	5	9	10	12	13	12
Player 14	13	14	18	19	16	12	12	10
Player 15	8	12	3	10	9	12	10	4
Player 16	6	8	5	6	10	11	11	12

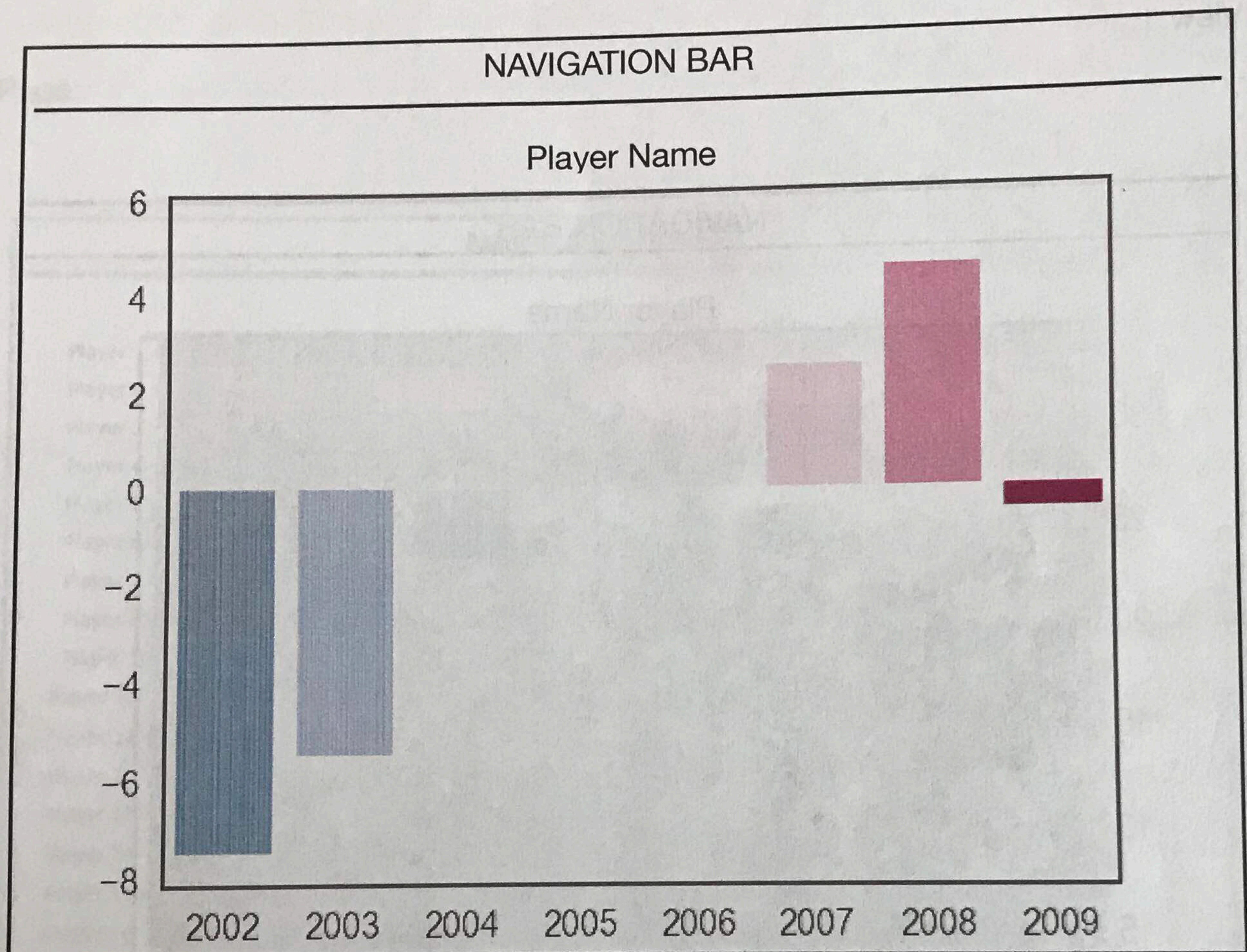
Greg then clicks on his favorite player, bringing up a bar graph showing total points (goals+assists) and the other showing output projected through the end of his career, and also including historic (actual) data. Future data also includes error bars, and the time series (x) axis shows years.

Player View 1:



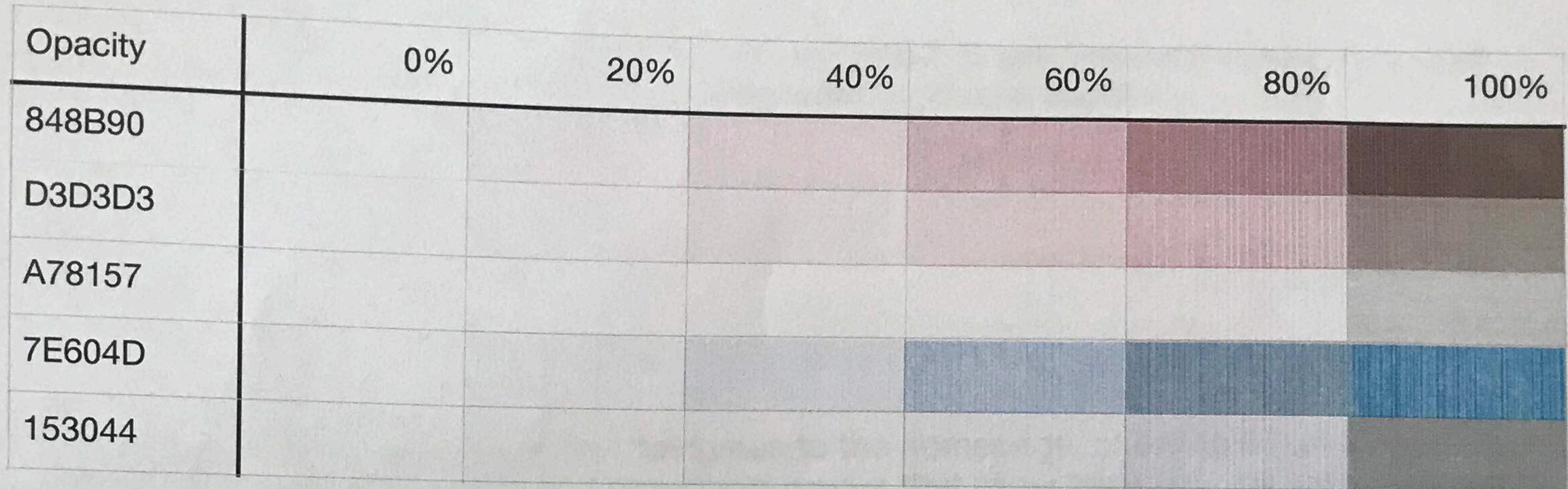
Finally, Greg clicks on the “show vs average” link to display the current player’s points against those of the average player in the league for a given year, as a percent above/below that constant line.

Player View 2:



## Color Story

Homepage:



Subsequent pages in team colors?