

Lower tensions provide more power, tighter

tensions provide more control. A beginning

Balance

player needs a soft, forgiving string-bed that

lower tensions provide due to the frequency of

Data-Morphic Analyzing Approach for Understanding a Tennis Racket

Comparison of Tennis Rackets in UH Tennis Club Jinyong Choi, MFA Graphic Design



Identifying an Issue

Collecting Data

Visualizing Data

Analyzing Shapes

All About Tennis Racket Sources: Tennis Express (http://www.tennisexpress.com/info/choosing-a-tennis-racquet.htm How to read a color bar? Pink indicates more power Green indicates more control **Head Size** String Pattern Open Pattern Dense Pattern It typically range from around 90 to 119 18 x 20 16 x 19 (or less) (119-137 sq. in.) are a growing segment of the Less trampoline effect · Slightly less durability smaller sweet spots, more control and added feel. Larger head sizes provide more forgive-Tension Length

Standard adult racket length is 27 inches,

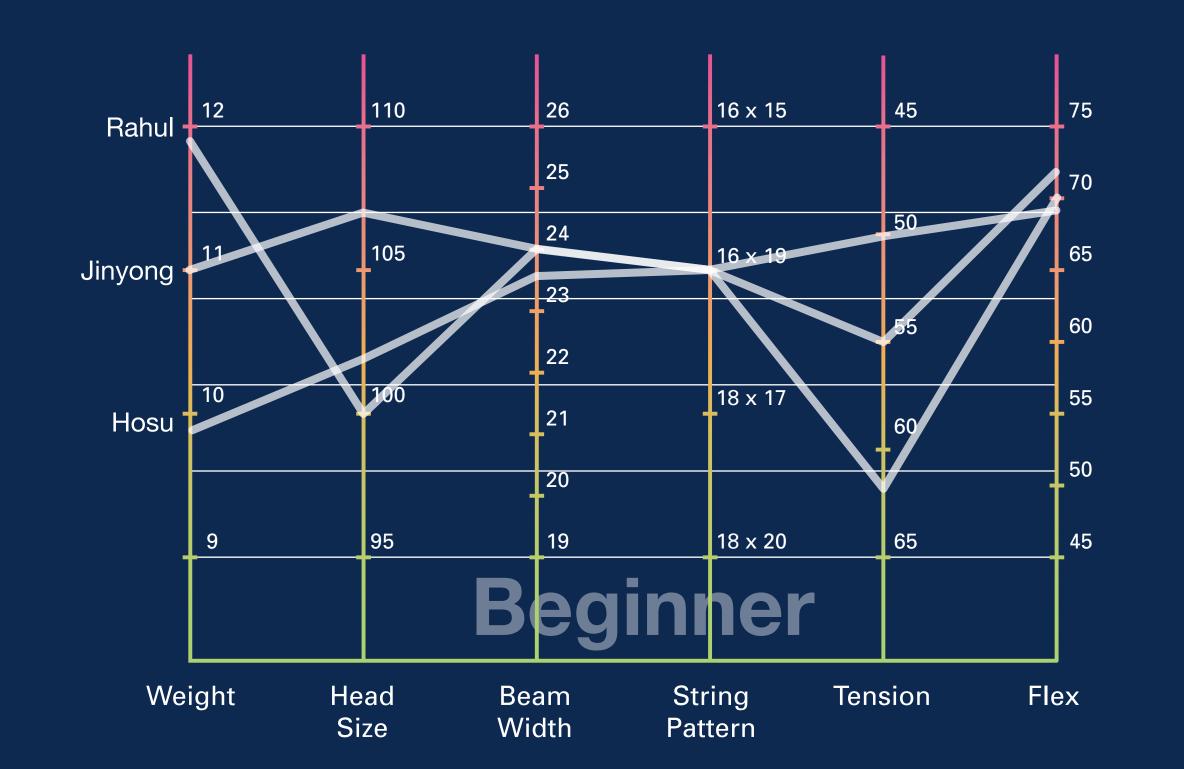
though many manufacturers offer extended

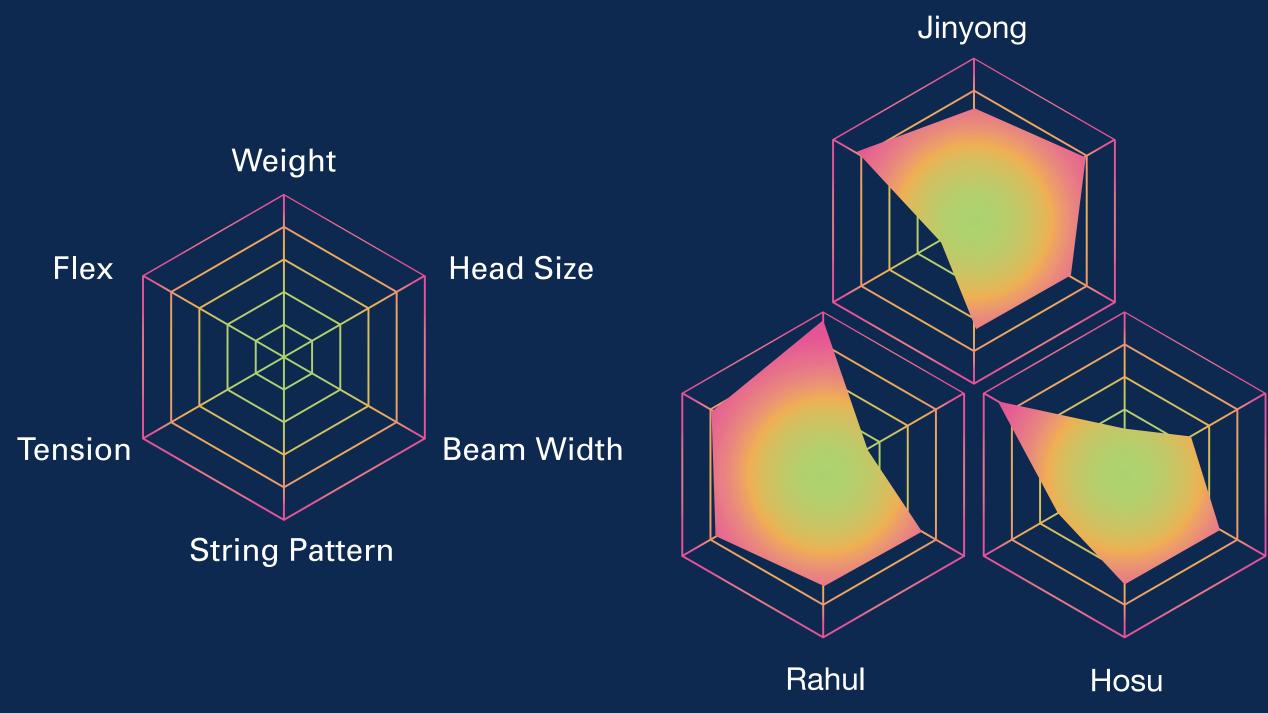
and pop on contact, it can also change the

comfort and feel of a racket. Make sure to

Grip Size

sizing. While added length can increase reach





Connor

Lisa

Kristin

Jonghae

Anonymous

what they mean and how they can be used. How to get a survey?

Purpose of comparison

I visualized the information collected from the

tennis rackets in a chart of hexagon shapes.

I compared those shapes to understand

Control

The survey was conduct with members of tennis club at the University of Houston. 15 student members participated in this project and all survey answers were collected through the online Google forms.

Why hexagon?

There are many factors influencing to the character of tennis racket, but I chose 6 most influencing properties among them. Racket's weight, head size, beam width, string pattern, tension, and flex.

Quick Analysis

The shapes in the beginner group are relatively moderate than other groups. Some similar shapes are found in the intermediate group while extremely sharp shapes appear in the advanced group. I believe the reason that advanced player's shapes are sharper is they understand well about a racket and they choose a racket in a way of maximizing their preference between control and power.

Conclusion

I found a possibility of this hexagon shape analyzing. I would like to develop this analyzing tool further so that it helps beginner player to understand properties of tennis racket. Also, I hope that I can propose this analyzing tool to the racket manufacturer in future.

