HotShots: Visualizing Stroke-by-Stroke Tennis Data

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Summary:

Post-match visualizations in tennis match data available to the common public are largely limited to video highlights and tabular reports (also called "score cards"). Such systems tend to ignore an important aspect of the game: ball location. We therefore felt a need for an interactive and accessible interface that prioritizes and simulates strokeplay, and provides end-users with customizable options to filter portions of interest. We propose HotShots, an interactive website with a tennis court representation that provides more profound insights into tennis player behavior. We conclude by presenting how this might shape future systems that would better serve tennis analysts and enthusiasts. A prototype of this tool is available at https://hotshots-v2.vercel.app/.