Visualizing Match-up Data

Cong Qiaoben

Prior work: Dotabuff



34th 51.24% Popularity win rate

Overview Guides Items Matchups Ability Builds Abilities Trends Player Rankings

MOST SUCCESSFUL MATCHUPS, ANCIENT APPARITION, THIS MONTH

This Month

Hero		Advantage 🛛 🔻	Ancient Apparition Win Rate	Matches Played
	Dazzle	3.92%	51.91%	96,283
	Іо	3.81%	67.83%	27,277
1	Bristleback	3.32%	54.40%	114,838
KQ.	Мееро	2.96%	61.04%	26,086
**	Dragon Knight	2.93%	52.39%	77,378
	Huskar	2.89%	56.31%	95,613
	Necrophos	2.88%	44.52%	206,284
M	Abaddon	2.80%	46.12%	69,310
	Chen	2.60%	60.33%	14,024
1	Timbersaw	2.22%	54.09%	83,222
199	Winter Wyvern	2.12%	57.08%	46,992
12	Techies	2.10%	56.60%	47,749
		2.070/	F0 10W	00.264



Hard to compare between tablesNo macro insights

Project description

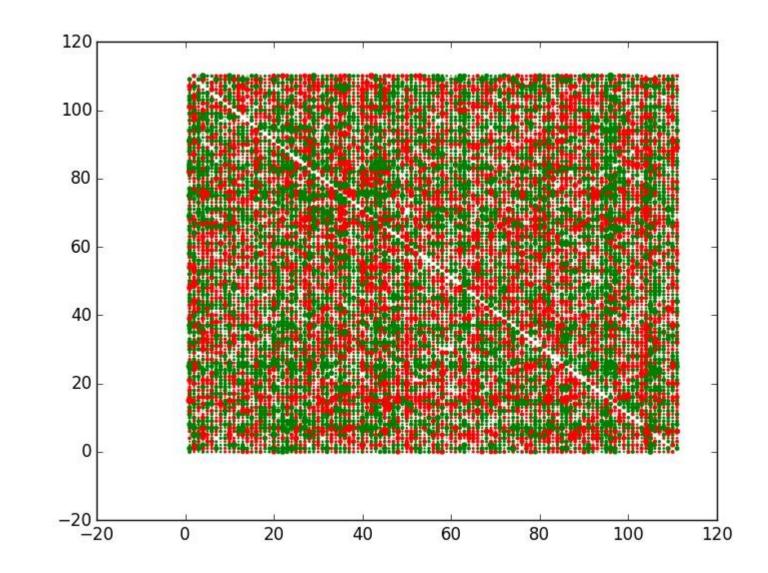
Automatically visualize the entire match-up matrix

Data source: Dota2 match-up data.

Prior work:

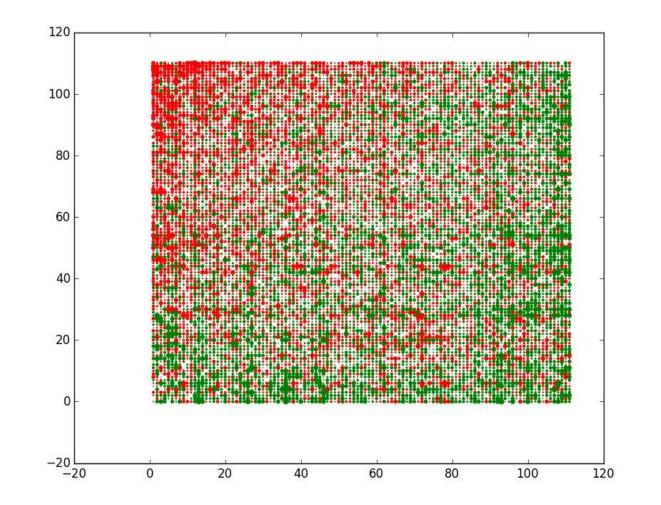
E. Makinen and H. Siirtola, "Reordering the Reorderable Matrix as an Algorithmic Problem", 2000

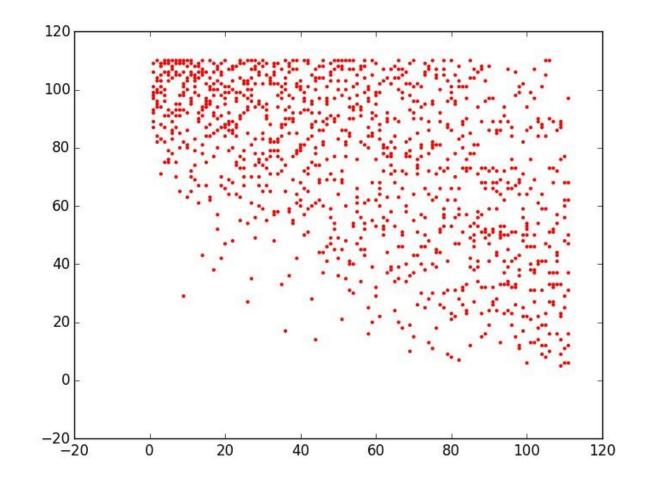
Created a naïve visualization of the match-up matric using common encoding for match-up data



Evaluated prior work based on the common encoding.







► To do: Emphasize Cluster

- Use other heuristics
- Use different encoding (such as heat map)
- Other visualization method(net analysis, dimension reduction, etc.)

Feedback:

Interactive?