

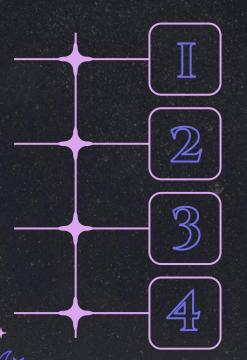
DND SPEUS AMAUMSIS

Vuong Chi Hao Balashova Ekaterina Le Nguyen Gia Binh



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OUR DATA

The amazing DND spells dataset

SPELL DESCRIPTIONS BY CLASS

Which words are associated with different classes?

SPELL RANGE BY LEVEL AND COMPONENTS

How do a spell's level and components influence its range?

ANALYSIS AND CONCLUSION

There is still a lot to be uncovered







OUR DATA





OUR DATA



OVERVIEW

- 315 spells in DnD (2024 edition)
- 27 parameters: everything that describes a spell in-game (name, level, who can use it, etc.)

WHY THIS DATA

- Diverse attributes for analysis
- Classification complexity
- Personal interest













SPELL DESCRIPTIONS BY CLASS







"HOW DO COMMON WORDS USED IN SPELL NAMES AND DESCRIPTIONS VARY IN ACCORDANCE WITH THE CLASSES THAT CAN USE THE SPELL?"

Class specializations visible through language







RATIONALE

 Discover how DND class characteristics affect language usage

CHALLENGES

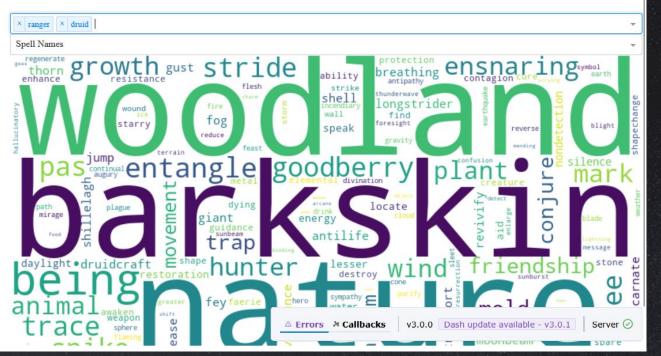
- Large intersection between classes
 - Solution: PMI





TNTERACTIVE DEMO

Words Specific for DND Class Spells: Interactive Dashboard









SPELL RANGE BY LEVEL AND COMPONENTS





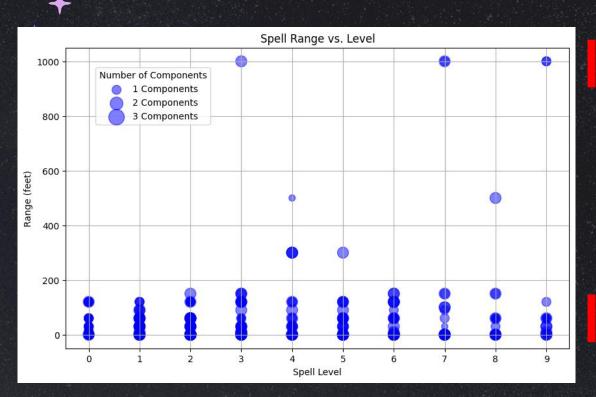


"HOW A SPELL'S LEVEL AND COMPONENTS (VERBAL, SOMATIC, MATERIAL) RELATE TO ITS RANGE."

Spell Range vs. Level - Scatter, Trend

Spell Range vs. Component vs. Level - Heat

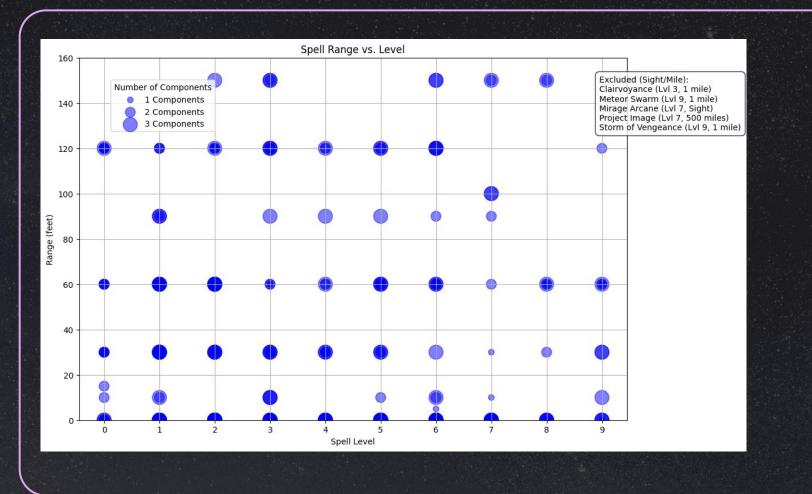


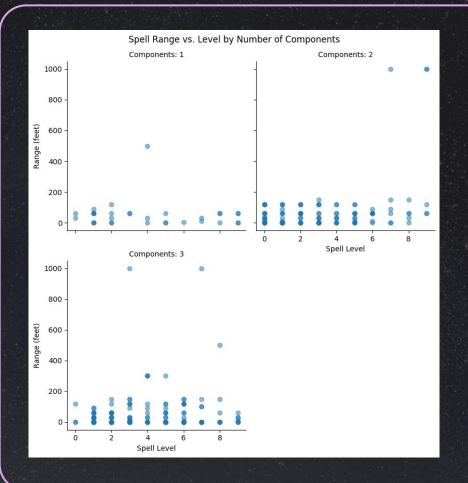


Sight/Mile Range spells

Focus here!







1 individual component could never produce further range spell

Huge range gap after 150 feet



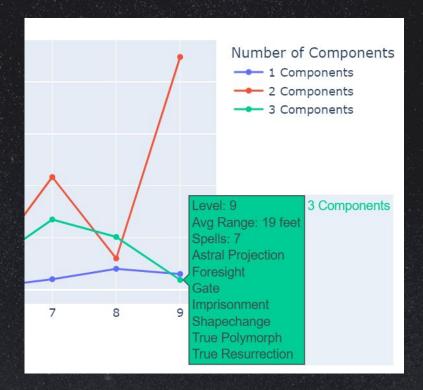
Average Range by Level and Number of Components

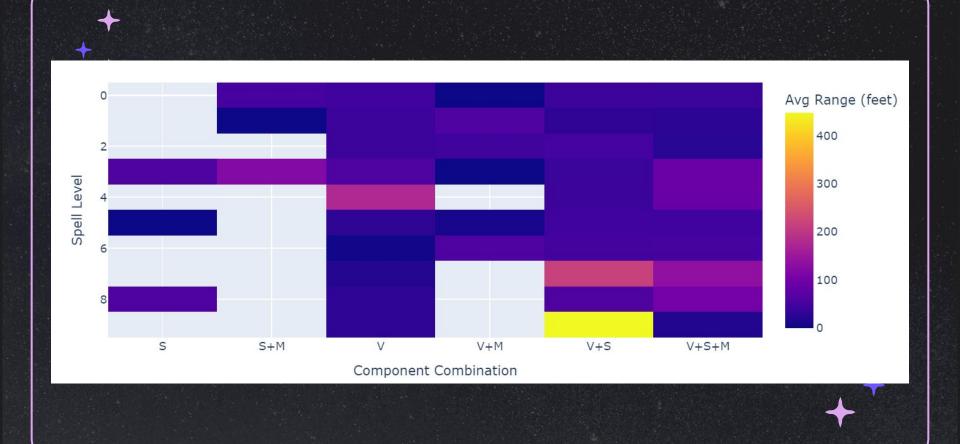


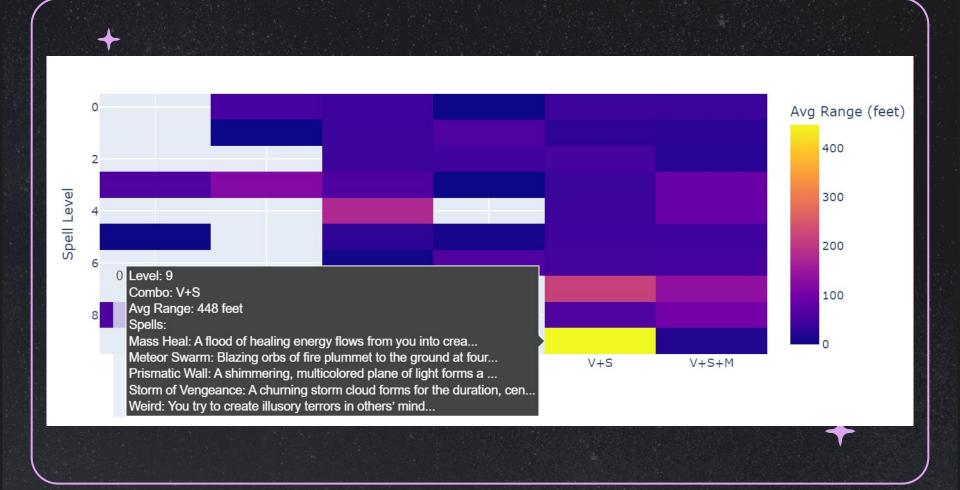
Long Range (Sight/Mile)

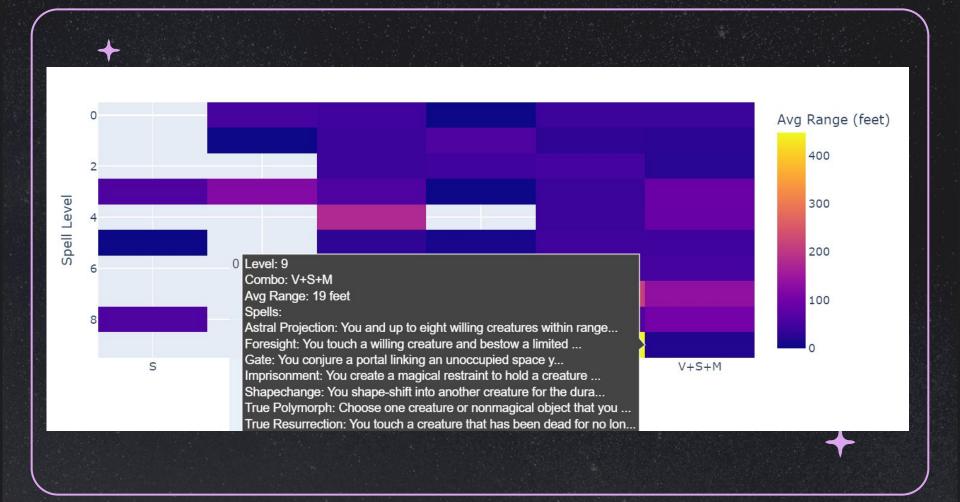


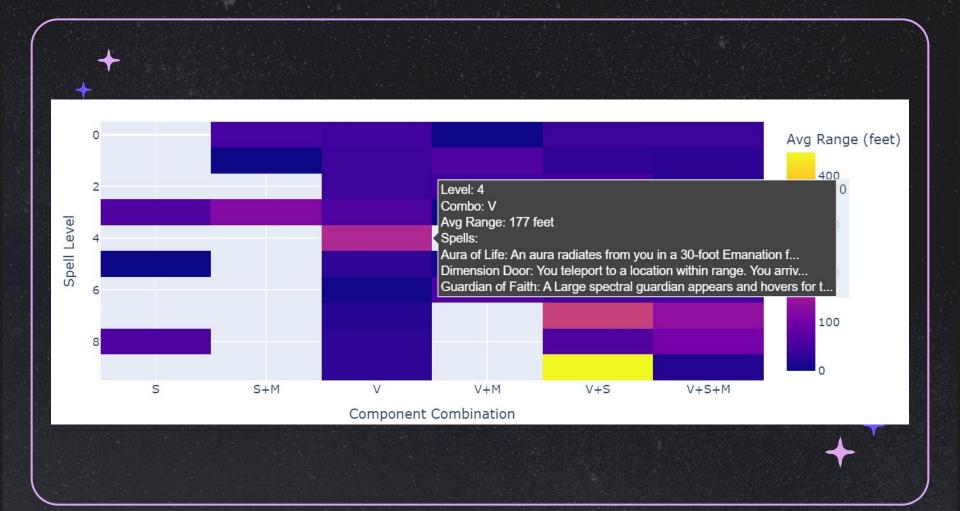
Short Range (Self/Touch)

















ANALYSIS AND CONCLUSION







MOST INTERESTING INSIGHTS





NAMES & DESCRIPTIONS

Spell names are closer to class stereotypes, spell descriptions reveal common mechanics



MATERIAL COMPONENT

The presence of material component increases the likelihood of spells having self/touch range







CONCLUSION



SUMMARY

- Language used in spell descriptions matches class characteristics
- Spells with verbal and somatic components scale in range with level, but adding a material component changes that

LIMITATIONS AND FURTHER WORK

- Language analysis could be broadened using extended data (ex. rulebook)
- More questions about spell range and components: do specific material components have notable effects?
- More exploration of the dataset to be done









THANKS!



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