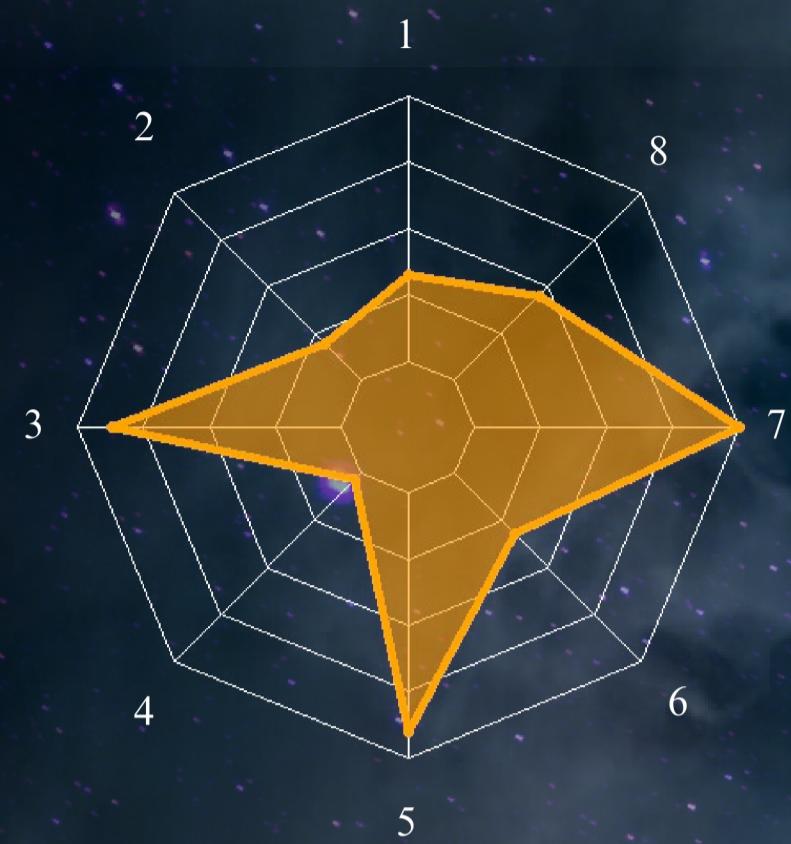
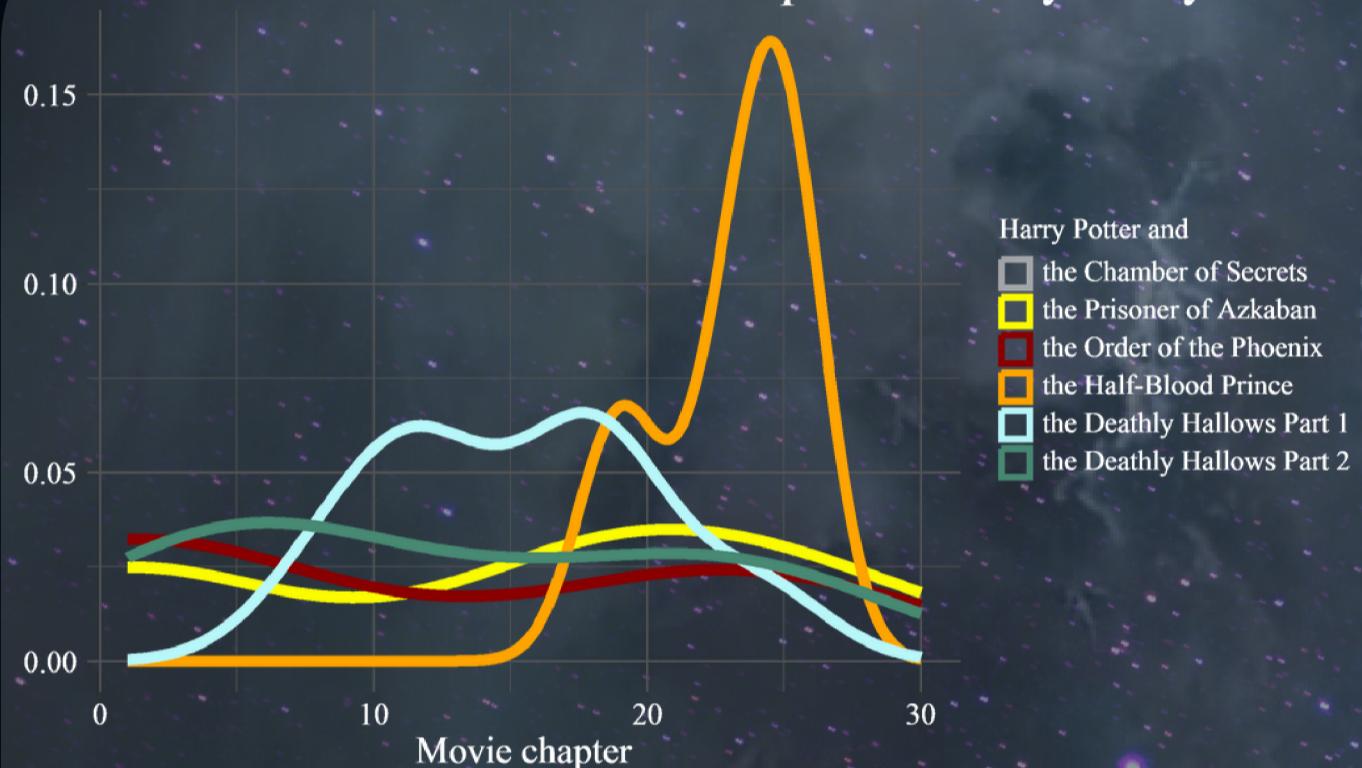


It's leviosa, not leviosA!

i.e. an analysis of verbal spells in Harry Potter movies



Distribution of the number of spells used by Harry Potter

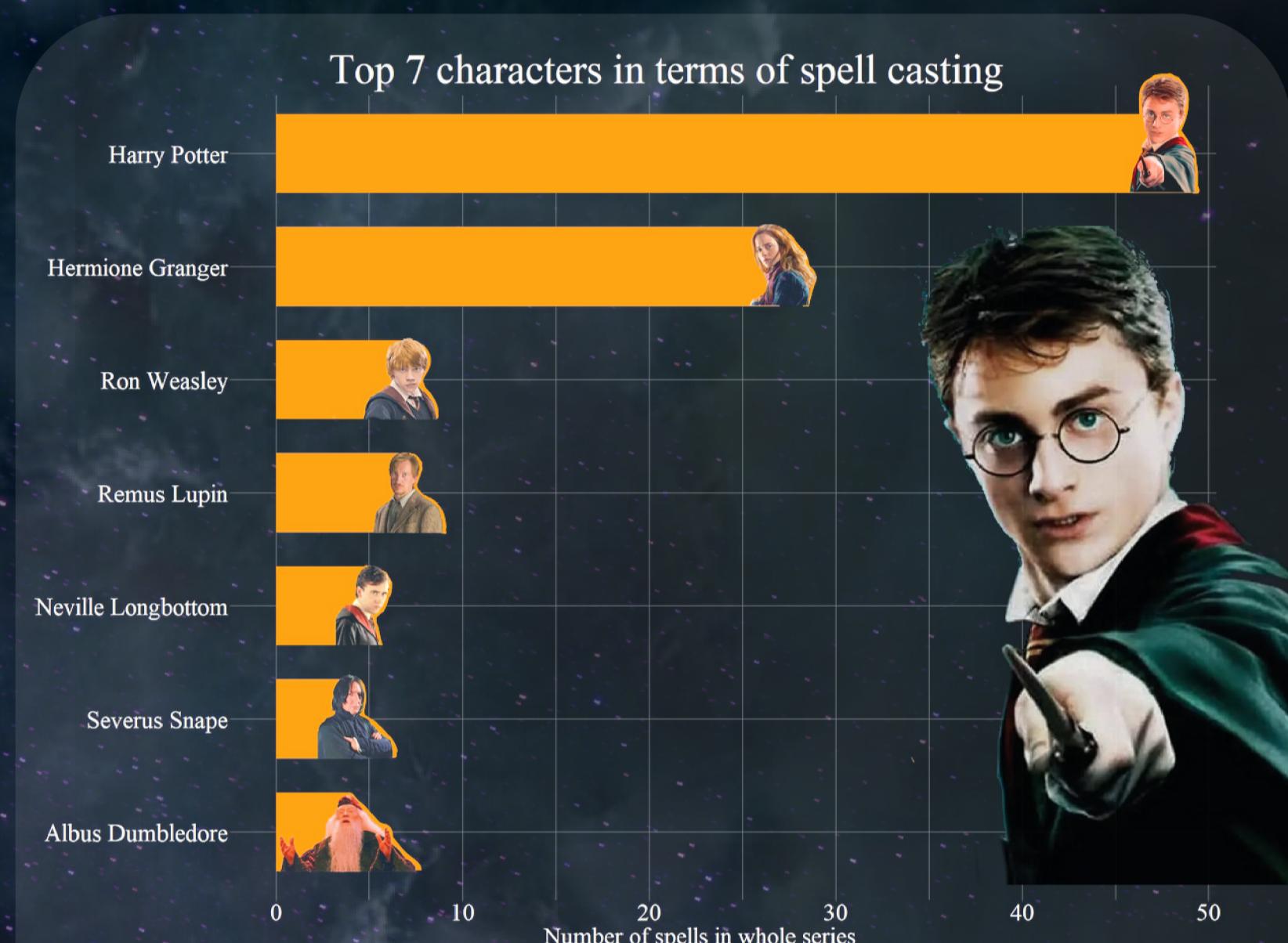


This chart illustrates the distribution of spells spoken by Harry Potter in each part of the film series. Spell density remains rather similar, apart from an increase at the end of Part 6 due to dramatic events. Three parts of the series are not included in the chart because Harry said less than 2 spells in each of them.

The Stankey diagram visualizes the magical essence's journey from the cores of primary wand types (on the left side) to various hues (on the right), representing distinct magical effects or traits. The thickness of the lines depicts the intensity of this journey, indicating the prevalence of specific ingredient-color combinations. Intriguingly, certain colors appear across different core types, hinting at wands' capacity to wield similar spells regardless of their cores. Additionally, rare hues like icy blue or gold might signify more specialized or advanced spellcasting.

The number of spells per movie

The plot shows the number of spells spoken in each of the Harry Potter films. Numbers from 1 to 8 represent movie parts. We can see that the most verbal spells were cast in part 7 with a score of 31 spells! Interestingly, Harry Potter and the Deathly Hallows Part 1 has the most different spells uttered. There were as many as 19 of them.



Who casted the most verbal spells? It's no wonder that the Golden Trio is at the top, because Harry, Hermione and Ron are the main characters of the films. Dumbledore's result may seem surprising, but remember that we are only considering spells spoken aloud. If we took into account non-verbal ones, the Headmaster of Hogwarts would be ranked with a higher score.

Fraction of the proportions of a wand's core by the color of the spells it casts

