

The background is a watercolor-style illustration of a magical battle. On the left, a wizard with a long white beard and a dark robe is casting a spell, with a bright red, star-shaped magical effect emanating from his wand. In the center, a bright yellow and orange magical explosion or spell is visible. On the right, another wizard in a blue and white striped shirt is seen from the back, also engaged in the battle. The overall scene is set against a backdrop of soft, hazy mountains and a bright, glowing light source in the upper right corner.

A Visualization of the **The Spells** of the **Wizarding World**

by Valerie Lemuth & Johanna Sacher

Artwork by Jim Kay - from the illustrated
Harry Potter Novels, written by J.K.Rowling

The Idea

The Spells of the Wizarding World

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Using the Spells of the Harry Potter Books

- » First introduction of each spell
- » Number of Uses
- » Development of Advancement/Danger over time



The Question

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Is the number of used spells – and especially curses –
increasing within the progress of the story?



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Creating the Data

Nothing suitable on the web

Created dataset ourselves

» Using Python and prior knowledge of the material



The Dataset

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Key

» Spell

Values

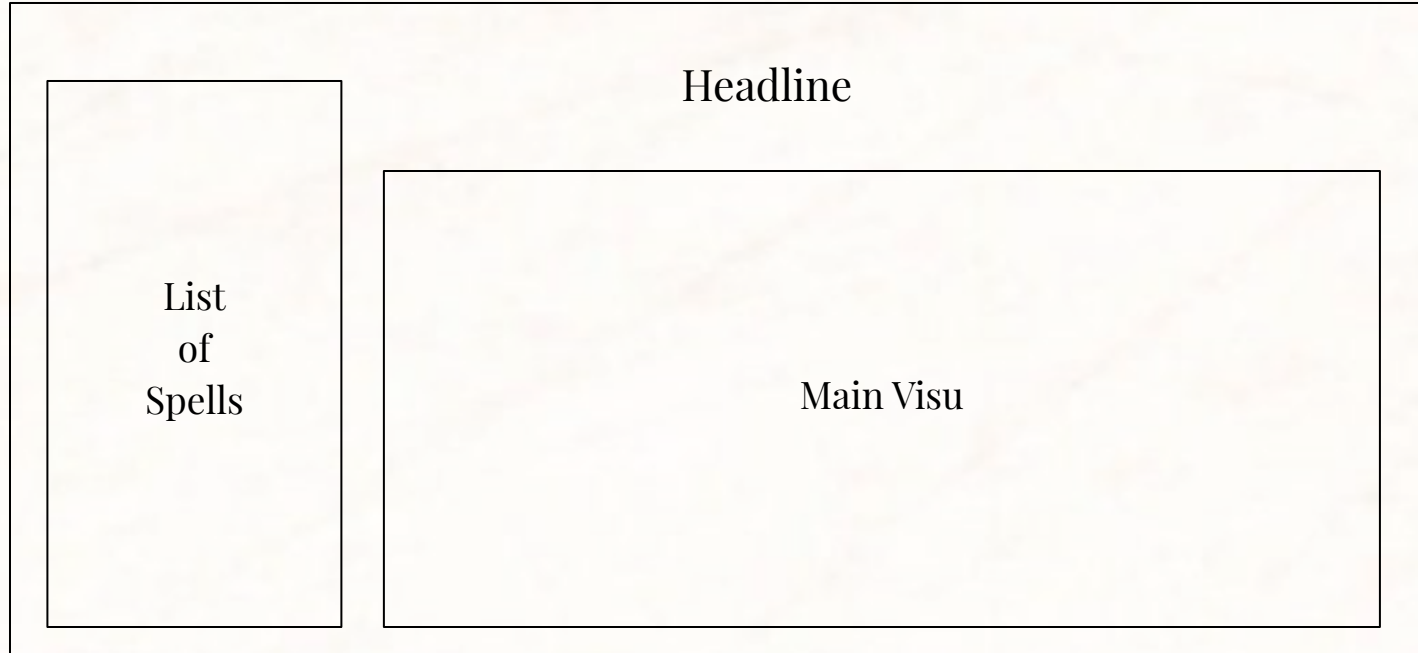
- » Number of occurrences per book
- » Effect
- » Type
- » Category
- » Danger
- » Link for further information



The Layout

The Spells of the Wizarding World

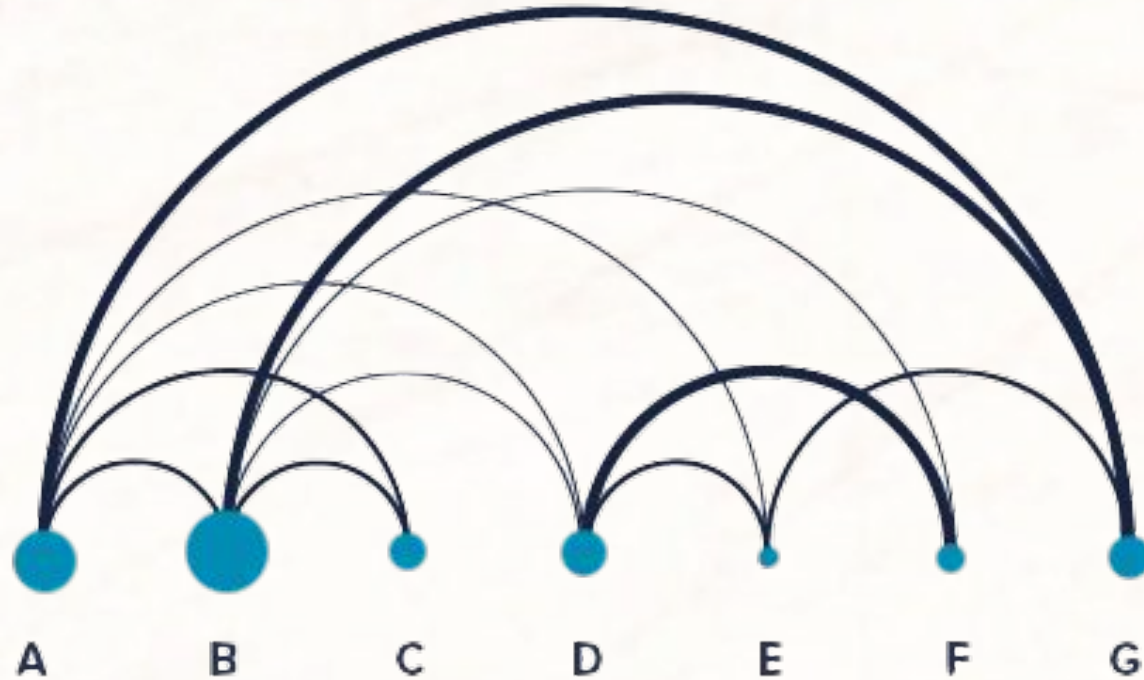
Valerie Lemuth & Johanna Sacher



The Layout | Arc Diagram

The Spells of the Wizarding World

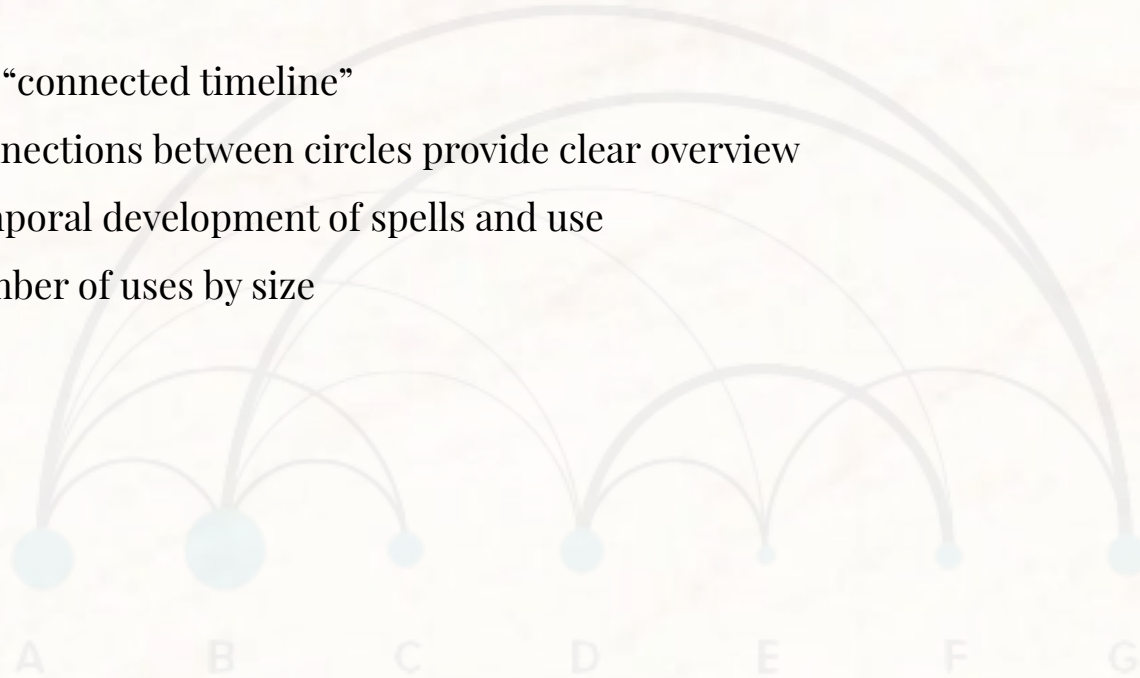
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The Layout | Arc Diagram

Feeling of a “connected timeline”

- » Connections between circles provide clear overview
- » Temporal development of spells and use
- » Number of uses by size



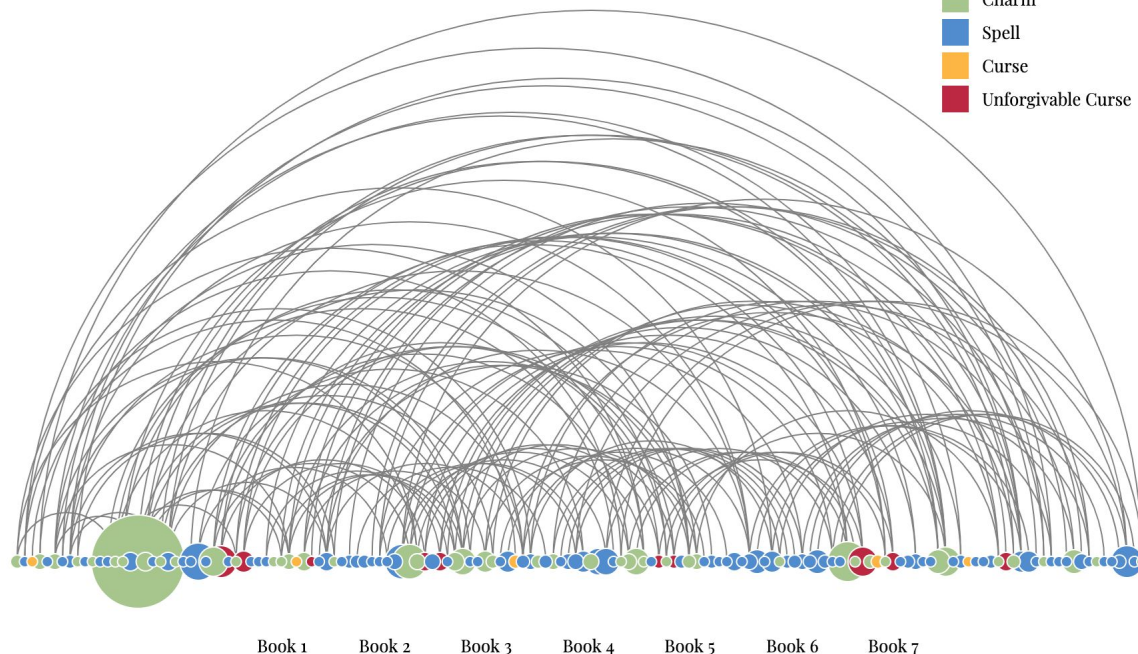
The Layout

The Spells of the Wizarding World

All Spells

Accio
Aguamenti
Alohomora
Anapneo
Aparecium
Avada Kedavra
Avis
Cave Inimicum
Colloportus
Confringo
Confundo
Crucio
Deletrius
Densaugeo
Deprimo
Descendo
Diffindo
Dissendium
Duro
Engorgio
Episkey
Erecto
Expecto Patronum
Expelliarmus
Expulso

Charm
Spell
Curse
Unforgivable Curse



The Layout | List

The Spells of the Wizarding World

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All Spells

Accio
Aguamenti
Alohomora
Anapneo
Aparecium
Avada Kedavra
Avis
Cave Inimicum
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Duro
Engorgio
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Expecto Patronum
Expelliarmus
Expulso

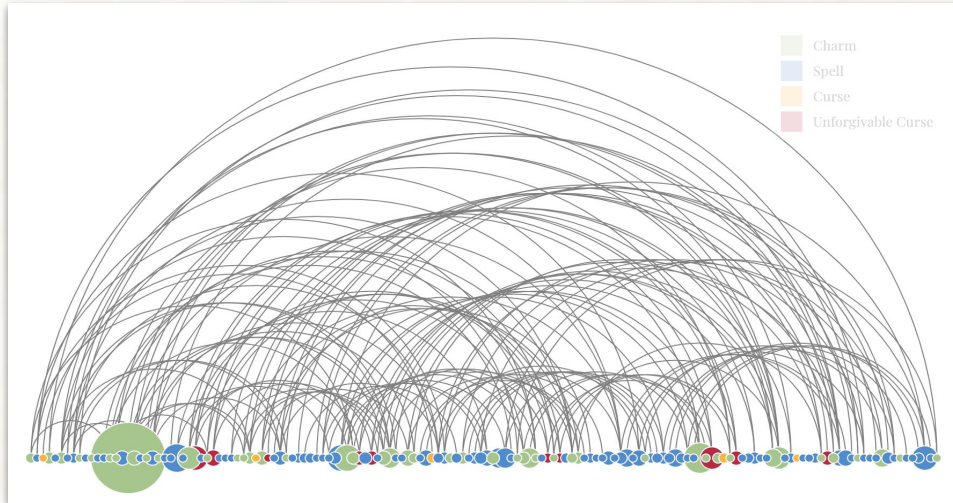
- All spells from the books
- Scrollable
- Alphabetically sorted
- Headline shows selected filters



The Layout | Timeline

The Spells of the Wizarding World

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- All spells from 1. to 7. book
- Each spell in a book = 1 Circle
- Size = Number of uses
- Color = Type





Connections between all occurrences of a spell



The Layout | Legend

The Spells of the Wizarding World

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	Charm
	Spell
	Curse
	Unforgivable Curse

4 Types of Spells

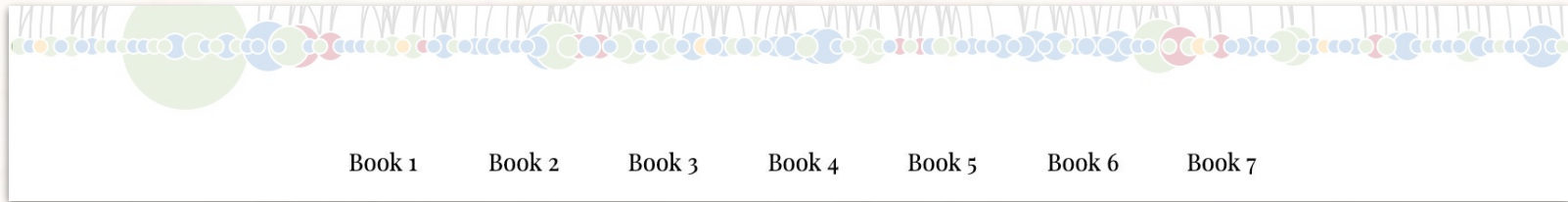
» For filtering



The Layout | Books

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All 7 Books

- » For filtering
- » Shows the idea of the timeline, but is not aligned
 - » Would be too cramped



The Visualization

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Basic Interactions

- Hover » information through tooltip
- Click » select and highlight
- Click again » deselect
 - » Selecting an element affects the other components, they adapt or get filtered

Nested Interactions

- Multiple filters can be applied over each other
 - » To narrow down the search



The background is a soft-focus illustration of a red wooden boat on a turbulent, blue-green sea. Two figures are in the boat: one in the foreground, a woman with long dark hair and a brown coat, holding a small pink umbrella; and another figure in the background, a man in a green jacket, reaching out towards a flock of white seagulls flying in the sky. The overall tone is ethereal and magical, with a light blue and white sky and a hazy horizon.

Thank you!

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