A Visualization of the The Spells of the Wizarding World by Valerie Lemuth & Johanna Sacher Artwork by Jim Kay - from the illustrated otter Novels, written by J.K.Rowling

Using the Spells of the Harry Potter Books



Using the Spells of the Harry Potter Books

- » First introduction of each spell
- » Number of Uses



Using the Spells of the Harry Potter Books

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



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

Creating the Data

Nothing suitable on the web



Creating the Data

Nothing suitable on the web Created dataset ourselves

» Using Python and prior knowledge of the material



The Dataset

The Spells of the Wizarding World

Valerie Lemuth & Johanna Sacher

Key

» Spell



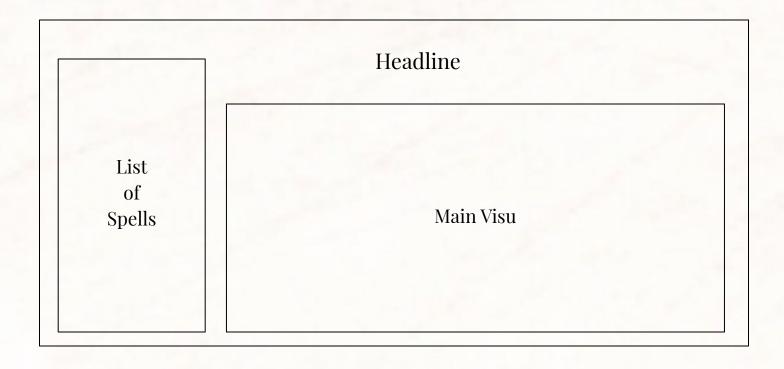
Key

» Spell

Values

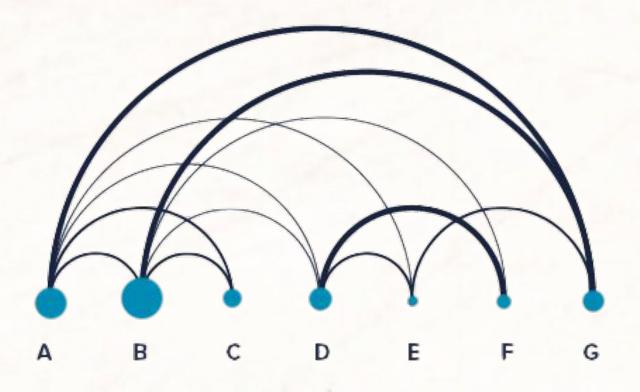
- » Number of occurrences per book
- » Effect
- » Type
- » Category
- » Danger
- » Link for further information





The Layout | Arc Diagram

Valerie Lemuth & Johanna Sacher





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Feeling of a "connected timeline"

» Links between circles provide clear overview



Feeling of a "connected timeline"

- » Links between circles provide clear overview
- » Temporal development of spells and use



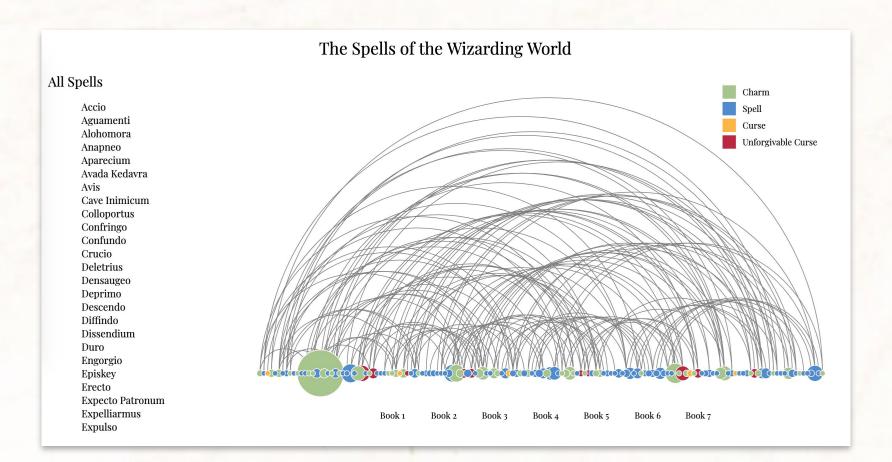
Feeling of a "connected timeline"

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



The Layout

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The Layout | List

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

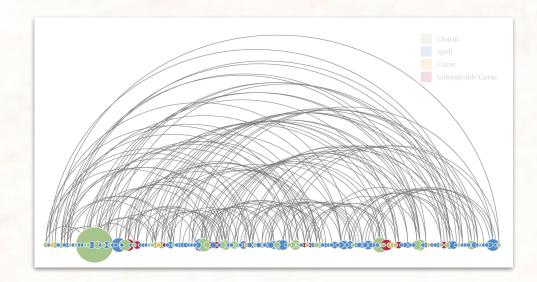
Expelliarmus

Expulso

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



The Layout | Timeline



Connections between all occurrences of a spell

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



The Layout | Legend



- 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



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Basic Interactions



Basic Interactions

- Hover → information through tooltip



Basic Interactions

- Hover → information through tooltip
- Click » select and highlight



Basic Interactions

- Hover → information through tooltip
- Click → select and highlight
- Click again → deselect



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



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

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



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

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» Yes!



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