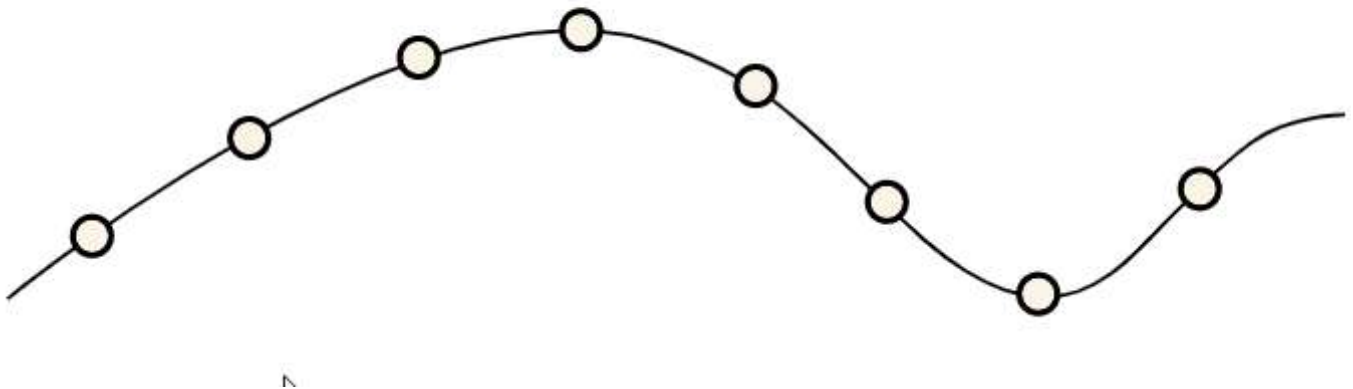## Assignment

Simple Timeline

Your job is to create an interactive timeline of the Harry Potter movies.

The timeline is a series of eight "bullets" on a path, like pearls on a string, and when the user clicks one of them, a popup-window describes one of the movies in the franchise.

The description is read from a JSON-file.

Everything is SVG - the timeline as well as the popup - and you must write code that reads the JSON-file, listens for clicks on the bullets, dynamically create the popup with data from the JSON, and display it relative to the clicked bullet.

Use the files in this zip-folder as a starting-point. (The Illustrator-file has to be exported to two SVG-files.)

Requirements

- You must use the existing Illustrator-file as is - don't modify it, just export it!
- You must use the JSON-file (you are allowed to edit / modify it, if needed)
- You must dynamically create/modify the popup (the infobox) when a bullet is clicked.
- The Infobox must be displayed close to the bullet being clicked.

Challenges
If you are up for it, you can make the application even cooler, by introducing some of these features:

- Add hover-animations on the bullets
- Click on the infobox to hide it again
- Add animations to show/hide the infobox
- If the infobox moves outside the visible screen, move it to the left of the bullet, rather than to the right of it.

Hints

After exporting the SVGs, rename the classes. Both so you can use them as selectors for the infobox, and so there aren't conflicts between the two files.

Place each SVG in their own placeholder-divs on the HTML-page. (You can hide the infobox-svg-placeholder later)

Include the infobox.svg in the timeline.svg with the <use>-tag - reference the infobox-placeholder on the same page, not the actual file.

Add indexes or ids to the bullets, so you know which one refers to which movie.

Use the `SVGAnimatedLength` properties as much as possible - they are easier to handle, than style- and presentation-attributes.

I recommend breaking your work down into these steps:

1. Load and display the two SVG files (don't care about sizes)
2. Modify timeline.svg to <use> the infobox.svg - verify that it gets displayed
3. Load the JSON file, and store data in a global variable
4. Make the bullets clickable
5. Find the movie object (from JSON data) for the clicked bullet.
6. Modify the infobox texts to be from the movie data
7. Position the infobox x-position according to the bullet clicked.
8. Position the y-position
9. Draw / modify the infoline, so it goes from bullet to infobox
10. Add/remove a hidden class on the infobox - so it isn't displayed at the beginning
11. additional challenges

Hand-in details

Upload to your domain, test that it works with **https://**, and paste that link as the answer to this assignment

> The deadline has passed. You can still submit your answer, but it will be marked as submitted too late.