

Installation Guide jTLEX Frontend Application

The jTLEX frontend application is built using the React Framework. To install and run our frontend application follow these steps:

1. Install NodeJS:

- The NodeJS page contains detailed instructions on how to install NodeJS on your system of choice: <https://nodejs.org/en/download/>

2. Install package dependencies:

- In your terminal, browse to the jtlx.frontend directory

```
luisrobaina@Luiss-Air jtlx.frontend % ls
README.md      node_modules  package.json  src
frontend      package-lock.json  public
```

- Once in the directory run the command ***npm install***

3. Once all the packages are installed, run the application with ***npm start***

4. Open your browser in <http://localhost:3000/>

← → ↻ ⓘ http://localhost:3000 ☆ ⚙️ 👤 Update

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TLEX: Timeline Extraction

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TLEX: Timeline Extraction

Qualitative temporal graphs that are derived from annotations on text—e.g., TimeML annotations—explicitly reveal only partial orderings of events and times. For many purposes, however, a total ordering (i.e., a timeline) is more useful. TLEX adapts prior work on solving point algebra problems to the task of extracting multiple timelines from TimeML annotated texts and demonstrates, for the first time, an exact, end-to-end solution.

```
graph LR; A[TimeML Annotated File] --> B[Build TimeML Graph]; B --> C[Partition subordination subgraphs]; C --> D[Detect Inconsistencies in TimeML graph]; D --> E[Solve TCSP and Extract Timelines]; E --> F[Transform into Temporal Constraint Satisfaction Problem TCSP];
```