

EventKG+BT:

Generation of Interactive Biography Timelines from a Knowledge Graph

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CHALLENGE AND GOAL

- High amount of event-centric information about notable accomplishments and important events in the life of people of public interest
- **Goal:** create concise and interactive spatio-temporal representations of biographies from a knowledge graph
- Predict the relevance of potential timeline entries found in **EventKG** by learning from textual biographies

SCENARIO

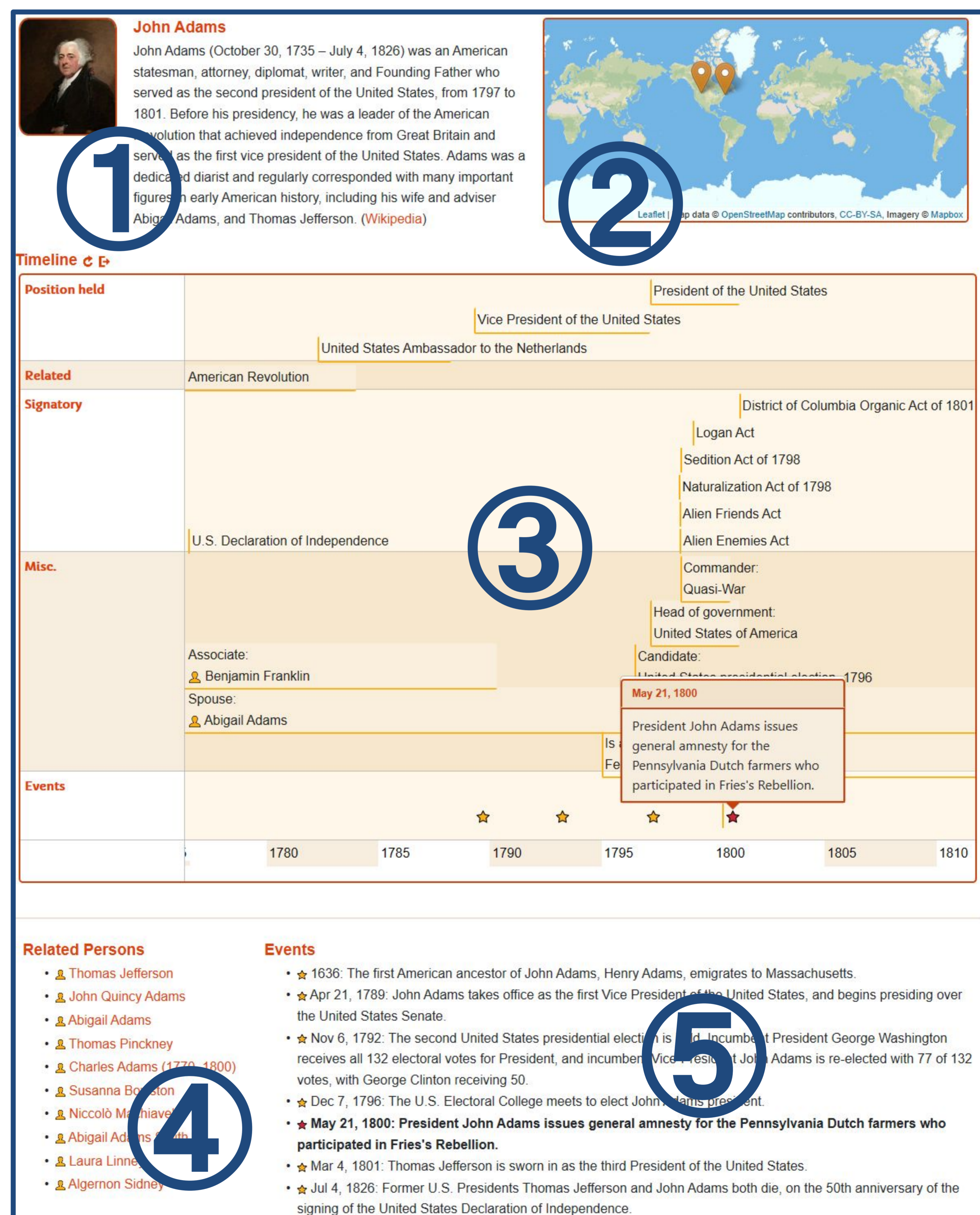
- Example question: “What were the notable accomplishments in the life of John Adams?”
- Tedious and time-consuming task that usually requires close reading of long encyclopedic or biographical sources
- EventKG+BT enables exploration of personal biographies based on concise biography timelines

TIMELINE GENERATION

- Extract a set of potential timeline entries from EventKG, for example:
 - John Adams, born, 30 Oct 1735
 - John Adams, marriedTo, Abigail Adams [25 Oct 1764 – 28 Oct 1818]
 - John Adams, child, John Quincy Adams [11 Jul 1767 – 4 Jul 1826]
- Distant supervision approach that identifies relevant temporal relations in biography texts
- SVM classifier on features such as
 - person type
 - property
 - relatedness of the object to the person

THE INTERFACE

- ① Wikipedia biography
 - Short textual biography
- ② Event map
 - Locations related to timeline entries
- ③ Biography timeline
 - Timeline grouped by property labels
- ④ Related people
 - Most important people in the person's life
- ⑤ Events
 - Textual events from EventKG



John Adams
John Adams (October 30, 1735 – July 4, 1826) was an American statesman, attorney, diplomat, writer, and Founding Father who served as the second president of the United States, from 1797 to 1801. Before his presidency, he was a leader of the American Revolution that achieved independence from Great Britain and served as the first vice president of the United States. Adams was a dedicated diarist and regularly corresponded with many important figures in early American history, including his wife and adviser Abigail Adams, and Thomas Jefferson. (Wikipedia)

Timeline

- Position held:** President of the United States, Vice President of the United States, United States Ambassador to the Netherlands
- Related:** American Revolution
- Signatory:** District of Columbia Organic Act of 1801, Logan Act, Sedition Act of 1798, Naturalization Act of 1798, Alien Friends Act, Alien Enemies Act
- Misc.:** U.S. Declaration of Independence, Commander: Quasi-War, Head of government: United States of America
- Events:** Associate: Benjamin Franklin, Spouse: Abigail Adams, Candidate: United States presidential election, 1796

Related Persons

- Thomas Jefferson
- John Quincy Adams
- Abigail Adams
- Thomas Pinckney
- Charles Adams (1770–1800)
- Susanna Boston
- Niccolò Machiavelli
- Abigail Adams
- Laura Linne
- Algernon Sidney

Events

- 1636: The first American ancestor of John Adams, Henry Adams, emigrates to Massachusetts.
- Apr 21, 1789: John Adams takes office as the first Vice President of the United States, and begins presiding over the United States Senate.
- Nov 6, 1792: The second United States presidential election is held. Incumbent President George Washington receives all 132 electoral votes for President, and incumbent Vice President John Adams is re-elected with 77 of 132 votes, with George Clinton receiving 50.
- Dec 7, 1796: The U.S. Electoral College meets to elect John Adams president.
- **May 21, 1800: President John Adams issues general amnesty for the Pennsylvania Dutch farmers who participated in Fries's Rebellion.**
- Mar 4, 1801: Thomas Jefferson is sworn in as the third President of the United States.
- Jul 4, 1826: Former U.S. Presidents Thomas Jefferson and John Adams both die, on the 50th anniversary of the signing of the United States Declaration of Independence.

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