Mini Challenge 1 (MC1)
- We present an event-based approach as a directed sensemaking task to solve the VAST 2014 Mini-Challenge 1.
- We leveraged a combination of student-created tool (StarSPIRE) and commercially available software (Tableau) to answer questions that were best suited to their strengths.
- In addition to applying entity extraction and topic modeling, we enable the user to explore a large dataset using multi-model semantic interaction, which infers analytical reasoning from user actions to augment the data spatialization and determine what information should be presented and suggested to the user.
- Our approach is able to:
  - Establish the history and evolution of an organization,
  - Identify ties to a local business,
  - Extract and visualize events occurring within a given timeframe.

MC1: Explore Structure of POK
- StarSPIRE is a multi-model semantic interaction visual analytics tool prototype specializing in unstructured text analysis.
- We utilized StarSPIRE to explore the structure of Protectors of Kronos as well as understand how the structure had evolved.
- StarSPIRE workspace indicating loose clusters which were jointly constructed by the analyst and the underlying algorithms.
- Want to know more about StarSPIRE?

MC1: Event Extraction
- We visualized extracted topics by Tableau to construct a timeline of events surrounding the questions posed by the challenge.
- Tableau scatterplot visualized documents and their associated extracted topics along a timeline. Different colors indicate different topics extracted using Latent Dirichlet Allocation (LDA).

Mini Challenge 2 (MC2)
- We present an event-based approach to solve the VAST 2014 Mini-Challenge 2.
- Based on the commercial interactive visualization software Tableau, we followed the notional model of sensemaking loop for analysis of the massive multi-dimensional, multi-source and time varying data sets.
- Our findings showed that we can effectively identify the commonalities and anomalies to understand the GAStech employees’ daily life.

MC2: Commonalities Identification
- To investigate the GAStech employees’ daily routines, we first visualized the GPS tracking data by scatterplot matrix in Tableau.
- We found that most of the employees had regular driving routines during weekdays.
- The temporal heatmap of credit card transactions also stated that GAStech employees usually went to coffee shops during 7am - 8am and drove out for their lunches around noon regularly.

MC2: Anomalies Detection
- Visualization described the relationship of Who and When. We found only 4 GAStech security staffs had activities during 2am - 4am. It also showed that every two of them had scheduled activities each midnight.
- Scatterplot showed the connections between Who and Where on 01/14/2014. We found two security staffs (Minke Mies & Hennie Osvaldo) and GAStech SVP/CFO (Ingrid Barranco) stayed at the same place.
- By foraging more details of their activities, we learned these two security staffs surveilled near GAStech SVP/CFO house in shifts.

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