

News Timeline: A Visual Analysis Tool for Heterogeneous Text Data

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ABSTRACT

{TODO: Add the abstract after complete the summary}

Index Terms: K.6.1 [Management of Computing and Information Systems]: Project and People Management—Life Cycle; K.7.m [The Computing Profession]: Miscellaneous—Ethics

1 INTRODUCTION

Exploring heterogeneous data from different sources can be complicated and error pruning if not well dealt with hidden relationship between entities or possible data conflicts between materials. In the MC1 of VAST Challenge 2014, to extract relationship between POK and GASTech we need to extract important people from different sources of file, e.g. employee resume, email, research report, and a huge volume of news with conflicts. In our design of the analysis tool News Timeline. {TODO: Choose a better name for our tool}, we integrate different kinds of source files into a timeline-based view, providing a quick overview for user to choose important file to focus for efficiency.

In this poster, we will first introduce our design consideration of visual analysis tools for heterogeneous data and then introduce how we use these tools to analyze MC1 data to solve these problems.

2 DESIGN PRICIPLES

Data provided in MC1 mainly includes 845 news articles, 35 resumes, employee records, email headers and some other report on both POK and Kronos. These data have the following features: 1.

3 VISUALIZATION TOOLS

3.1 Resume reader

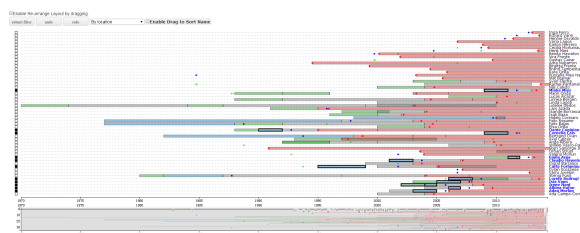


Figure 1: Resumer viewer

Resume reader is the first paragraph. ¹.

3.2 News timeline

{TODO: Finish description for newstimeline.}

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3.3 Email Reader

{TODO: Finish dealing with email reader.}

4 DATA EXPLORATION

{TODO: Describe how do we explore data sources to extract details.}

5 CONCLUSION

{TODO: What do we achieve with our tool.}

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