

Your settings for this Block Poster are:

Pages Wide

3

Orientation

PORTRAIT

Paper Format

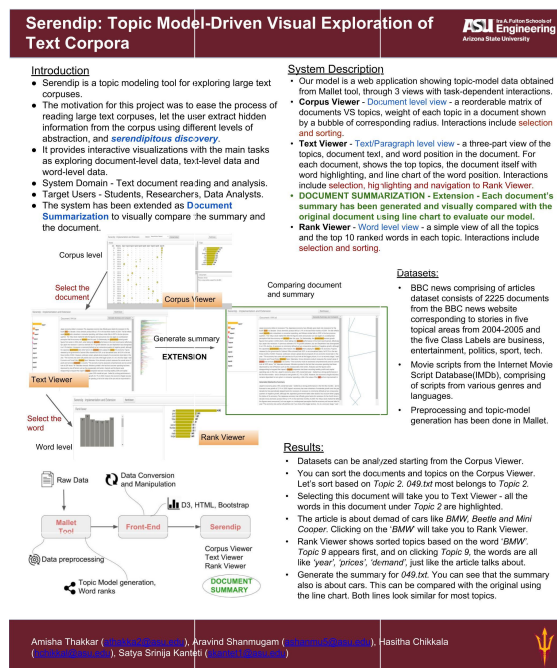
A4

Border Setting

Top: 0, Right: 0, Bottom: 0, Left: 0

You can find tips on printing, assembling and putting up your poster at www.blockposters.com

Enjoy your Block Poster!



Model-Driven Visual Exploration

exploring large text

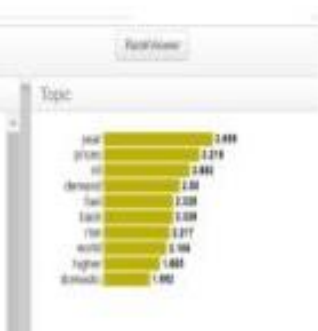
ease the process of
user extract hidden
different levels of
Discovery.

with the main tasks
text-level data and

ding and analysis.
s, Data Analysts.

Document

the summary and



System Description

- Our model is a web application built from Mallet tool, through a series of steps.
- **Corpus Viewer** - [Document](#) documents VS topics by a bubble of correlation and sorting.
- **Text Viewer** - [Text/Phrase](#) topics, document text for each document, showing word highlighting, and include **selection, highlighting**.
- **DOCUMENT SUMMARY** - **summary** has been **original document** and the top 10 ranked words.
- **Rank Viewer** - [Word](#) and the top 10 ranked words **selection and sorting**.

1

pplication showing topic-model data obtained
ugh 3 views with task-dependent interactions.

document level view - a reorderable matrix of
, weight of each topic in a document shown
ponding radius. Interactions include **selection**

paragraph level view - a three-part view of the
, and word position in the document. For
vs the top topics, the document itself with
d line chart of the word position. Interactions
highlighting and navigation to Rank Viewer.

ARIZATION - Extension - Each document's
generated and visually compared with the
using line chart to evaluate our model.

level view - a simple view of all the topics
d words in each topic. Interactions include

Select the document

Corpus V



Generate su

EXTENSION

Text Viewer

Select the word

Word level



Raw Data



Data Conversion and Manipulation



D3,

Mallet Tool

Front-End

Comparing document and summary

/viewer

Summary

ION

2.041 4.082

1.921
1.001
0.981
1
1
1

Rank Viewer

HTML, Bootstrap

Serendip

Serendip : Implementation and Extension

Document: 044.txt

Generate Summary and Compare

Japan economy slides to recession The Japanese economy has officially gone back into recession for the fourth time in a decade. Gross domestic product fell by 0.1% in the last three months of 2004. The fall reflects weak exports and a slowdown in consumer spending, and follows similar falls in GDP in the two previous quarters. The Tokyo stock market fell after the figures were announced, but rose again on a widespread perception that the economy will recover later this year. On Wednesday, the government revised growth figures from earlier in 2004 which, when taking into account performance in the most recent period, effectively tips Japan into recession. A previous estimate of 0.1% growth between July and September was downgraded to a 0.3% decline. A recession is commonly defined as two consecutive quarters of negative growth, although the Japanese government takes other factors into account when judging the status of its economy. Figures released by the government's Cabinet Office showed that GDP, on an annualised basis, fell 0.5% in the last three months of 2004. However, politicians remain upbeat about prospects for an economic boost later in the year. "The economy has some soft patches but if you look at the bigger picture, it is in a recovery stage," said Economic and Fiscal Policy Minister Taro Aso. Gross domestic product measures the overall value of goods and services produced in a country. "The economy must be assessed comprehensively and we cannot look at GDP alone," Aso stressed. Ministers pointed to the fact that consumer spending had been depressed by one-off factors such as the unusually mild winter. Analysts said the figures were disappointing but argued that Japan's large companies had been recording healthy profits and capital spending was on the rise. Japan's economy grew 2.6% overall last year - fuelled by a strong performance in the first few months - and is forecast to see growth of 2.1% in 2005. However, the economy's fragile recovery remains dependent on an upturn in consumer spending, a fall in the value of the yen and an improvement in exports.

Generated Abstractive Summary

Japan's economy grew 2.6% overall last year - fuelled by a strong performance in the first few months - and is forecast to see growth of 2.1% in 2005. Japan's economy has seen stretches of moderate growth over the past decade but has periodically slipped back into recession. A recession is commonly defined as two consecutive quarters of negative growth, although the Japanese government takes other factors into account when judging the status of its economy. The Japanese economy has officially gone back into recession for the fourth time in a decade. Gross domestic product fell by 0.1% in the last three months of 2004. The Tokyo stock market fell after the figures were announced, but rose again on a widespread perception that the economy will recover later this year. "The economy has some soft patches but if you look at the bigger picture, it is in a recovery stage," said

Results:

- Datasets can be analysed
- You can sort the documents
- Let's sort based on Topic
- Selecting this document
- words in this document
- The article is about de
- Cooper. Clicking on the

Datasets:

- BBC news comprising of articles dataset consists of 2225 documents from the BBC news website corresponding to stories in five topical areas from 2004-2005 and the five Class Labels are business, entertainment, politics, sport, tech.
- Movie scripts from the Internet Movie Script Database(IMDb), comprising of scripts from various genres and languages.
- Preprocessing and topic-model generation has been done in Mallet.

alyzed starting from the Corpus Viewer.


uments and topics on the Corpus Viewer.


Topic 2. 049.txt most belongs to *Topic 2*.

ent will take you to Text Viewer - all the
nt under *Topic 2* are highlighted.

emad of cars like *BMW*, *Beetle* and *Mini*

ne '*BMW*' will take you to Rank Viewer.

 Data preprocessing

 Topic Model generation,
Word ranks

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(hchikkal@asu.edu), Satya Srinija Kante

Corpus Viewer
Text Viewer
Rank Viewer

**DOCUMENT
SUMMARY**

- Rank Viewer shows s
Topic 9 appears first,
like *'year'*, *'prices'*, *'de*
- Generate the summar
also is about cars. Th
the line chart. Both lin

Aravind Shanmugam (ashanmu5@asu.edu),
eti (skantet1@asu.edu)

orted topics based on the word '*BMW*'.
and on clicking *Topic 9*, the words are all
demand', just like the article talks about.
y for *049.txt*. You can see that the summary
is can be compared with the original using
es look similar for most topics.

Hasitha Chikkala



created using

BLOCK

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