Tools for Natural Language Processing

GATE

General Architecture for Text Engineering

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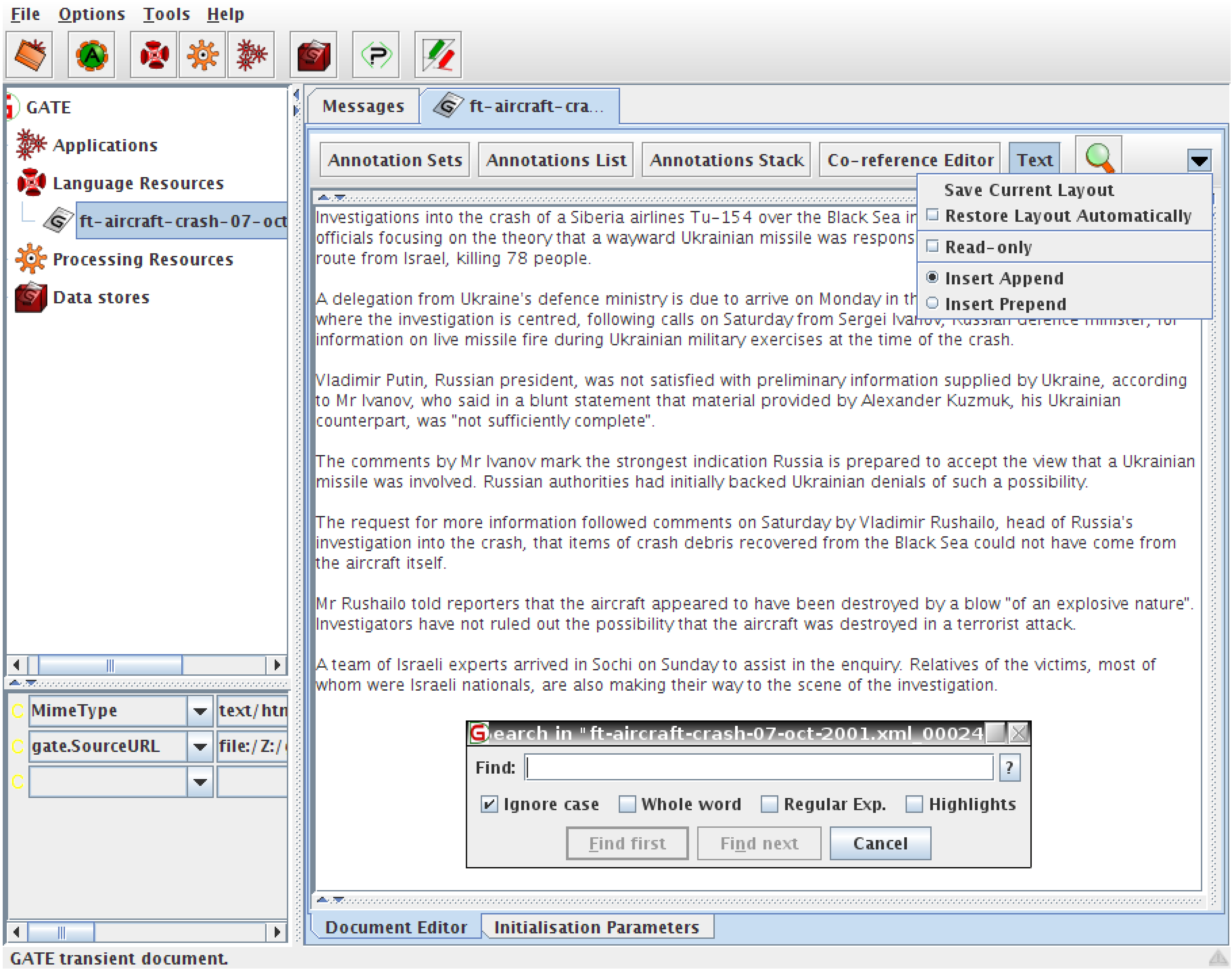
Čo je GATE

- „... an infrastructure for developing and deploying software components that process human language“
- 1995
- open source
- University of Sheffield
- JAVA
- GATE, NTLK, R, RapidMiner

Čo je GATE

- GATE Developer – IDE
- GATE Cloud – cloud
- GATE Teamware – web app
- GATE Mimir – search repo
- GATE Embedded – lib



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Investigations into the crash of a Siberia airlines Tu-154 over the Black Sea ir officials focusing on the theory that a wayward Ukrainian missile was respons route from Israel, killing 78 people.

A delegation from Ukraine's defence ministry is due to arrive on Monday in th where the investigation is centred, following calls on Saturday from Sergei Iva information on live missile fire during Ukrainian military exercises at the time of the crash.

Vladimir Putin, Russian president, was not satisfied with preliminary information supplied by Ukraine, according to Mr Ivanov, who said in a blunt statement that material provided by Alexander Kuzmuk, his Ukrainian counterpart, was "not sufficiently complete".

The comments by Mr Ivanov mark the strongest indication Russia is prepared to accept the view that a Ukrainian missile was involved. Russian authorities had initially backed Ukrainian denials of such a possibility.

The request for more information followed comments on Saturday by Vladimir Rushailo, head of Russia's investigation into the crash, that items of crash debris recovered from the Black Sea could not have come from the aircraft itself.

Mr Rushailo told reporters that the aircraft appeared to have been destroyed by a blow "of an explosive nature". Investigators have not ruled out the possibility that the aircraft was destroyed in a terrorist attack.

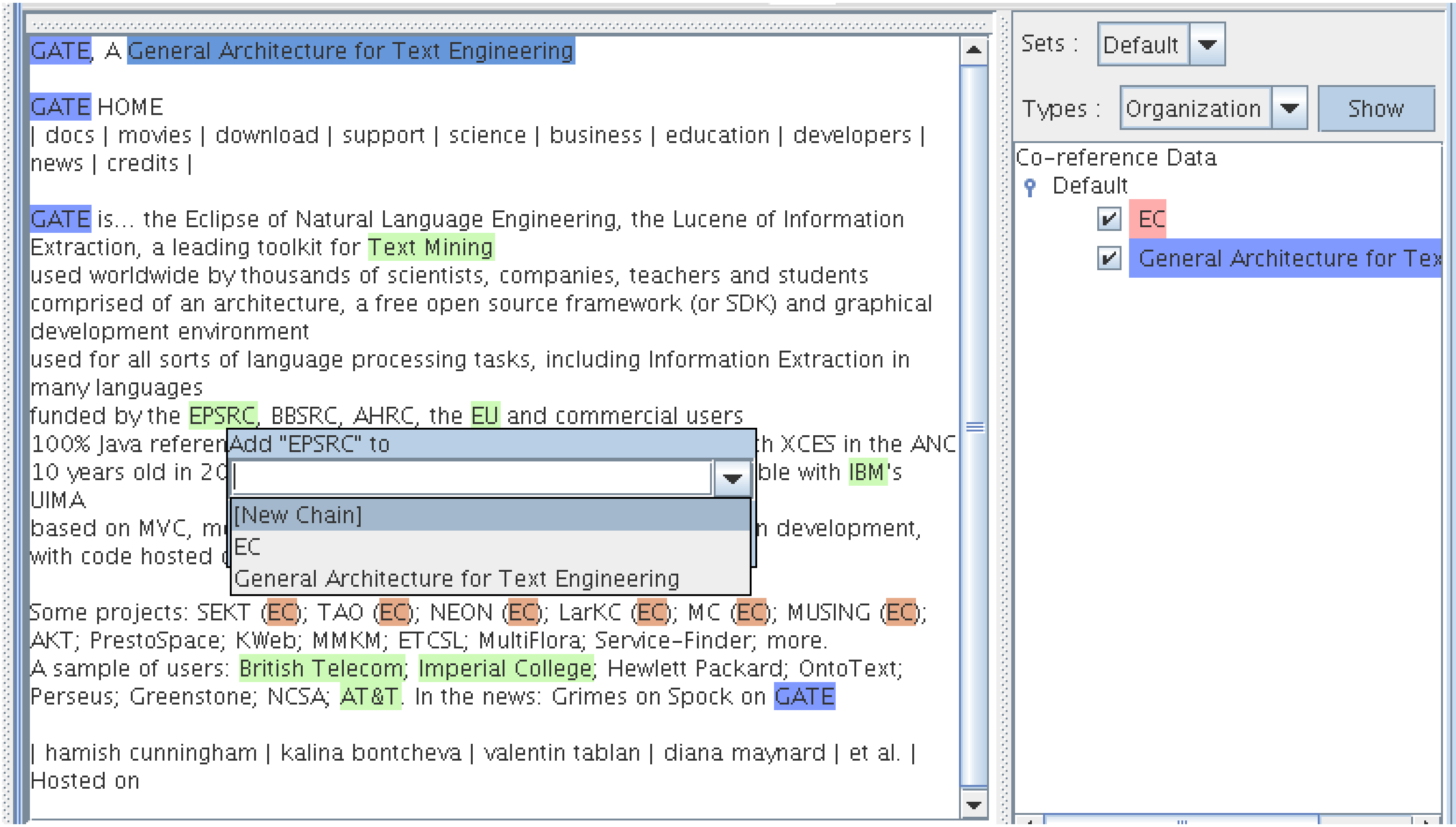
A team of Israeli experts arrived in Sochi on Sunday to assist in the enquiry. Relatives of the victims, most of whom were Israeli nationals, are also making their way to the scene of the investigation.

Search in "ft-aircraft-crash-07-oct-2001.xml_00024

Find: ?

☑ Ignore case □ Whole word □ Regular Exp. □ Highlights

GATE transient document.



GATE, A General Architecture for Text Engineering

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GATE is... the Eclipse of Natural Language Engineering, the Lucene of Information Extraction, a leading toolkit for Text Mining
used worldwide by thousands of scientists, companies, teachers and students
comprised of an architecture, a free open source framework (or SDK) and graphical development environment
used for all sorts of language processing tasks, including Information Extraction in many languages
funded by the EPSRC, BBSRC, AHRC, the EU and commercial users
100% Java referen h XCES in the ANC
10 years old in 20 ble with IBM's
UIMA
based on MVC, m n development,
with code hosted

Add "EPSRC" to

[New Chain]
EC
General Architecture for Text Engineering

Some projects: SEKT (EC); TAO (EC); NEON (EC); LarKC (EC); MC (EC); MUSING (EC);
AKT; PrestoSpace; KWeb; MMKM; ETCSL; MultiFlora; Service-Finder; more.
A sample of users: British Telecom; Imperial College; Hewlett Packard; OntoText;
Perseus; Greenstone; NCSA; AT&T. In the news: Grimes on Spock on GATE

| hamish cunningham | kalina bontcheva | valentin tablan | diana maynard | et al. |
Hosted on

Sets : Default

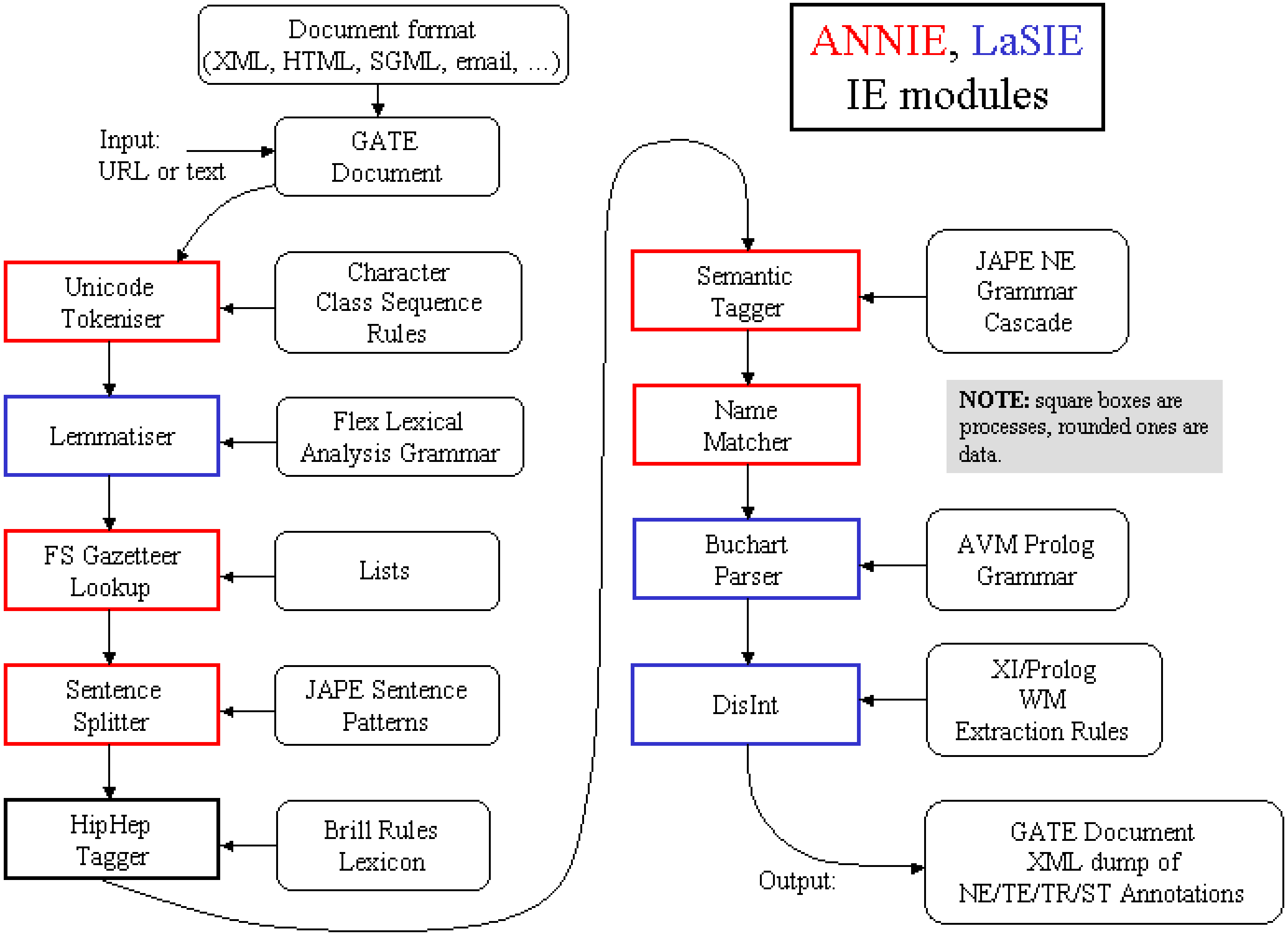
Types : Organization

Co-reference Data
Default
☑ EC
☑ General Architecture for Tex

GATE pod lupou

- CREOLE – komponentový model
  - Language Resources
  - Processing Resources
  - Visual Resources
- ANNIE – basic text extraction pipeline
  - implementácia vybraných resource
- JAPE – jazyk pre reg. výrazy nad anotáciami

ANNIE



NOTE: square boxes are processes, rounded ones are data.

JAPE

```
Phase: UrlPre
Input:  Token SpaceToken
Options: control = appelt

Rule: Urlpre

( (({Token.string == "http"} |
  {Token.string == "ftp"})
 {Token.string == ":"}
 {Token.string == "/"}
         {Token.string == "/"}
        ) |
({Token.string == "www"}
         {Token.string == "."}
        )
):urlpre
-->
:urlpre.UrlPre = {rule = "UrlPre"}
```

References

- http://gate.ac.uk