

# Analyze APIの VS Codeプラグインを作ってみた

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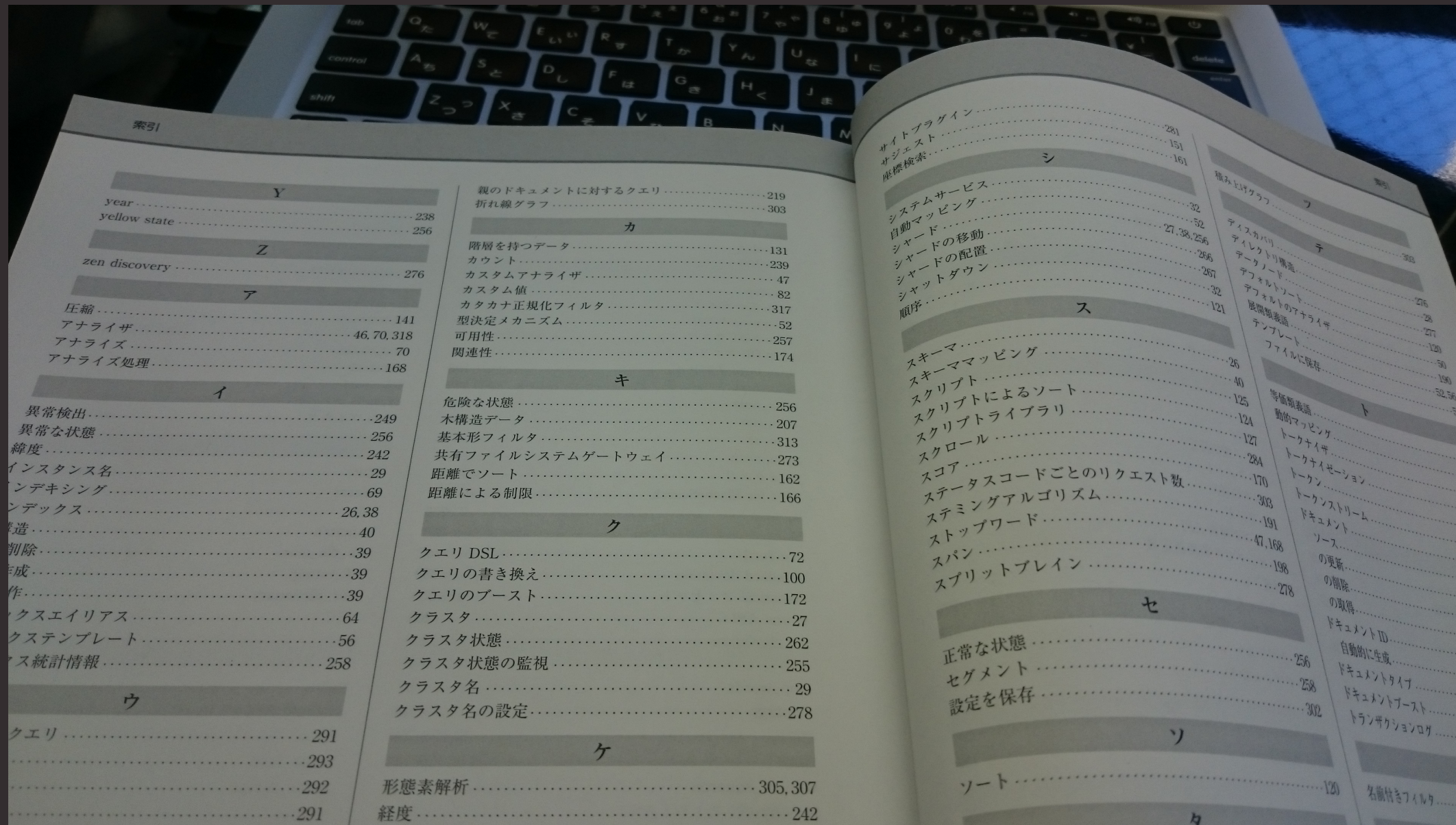
@johtani

# 自己紹介



- フリーランスエンジニア
- Apache Solr入門(第2版まで)やデータ分析基盤構築入門の著者の一人
- KibanaのAnalyze API UI pluginの作者

# Elasticsearchのインデックス(簡易的説明)



# Lucene/Elasticsearchの仕組み - Index

## 1. ドキュメントの文字列を単語に分割

- Text Analysis

## 2. 分割された単語で転置インデックス構築

- Indexer / Inverted Index

# Text Analysis

- 入力文字列を一定のルールに基づいて、単語列にして出力する
- Analyzerと呼ばれる仕組みにより実現

# Text Analysis - 例

0 I am a Search Engineer.



i am a search engineer

# Analyze API?

GET /\_analyze

```
{  
  "analyzer" : "standard",  
  "text" : "Quick Brown Foxes!"  
}
```

<https://www.elastic.co/guide/en/elasticsearch/reference/current/indices-analyze.html>



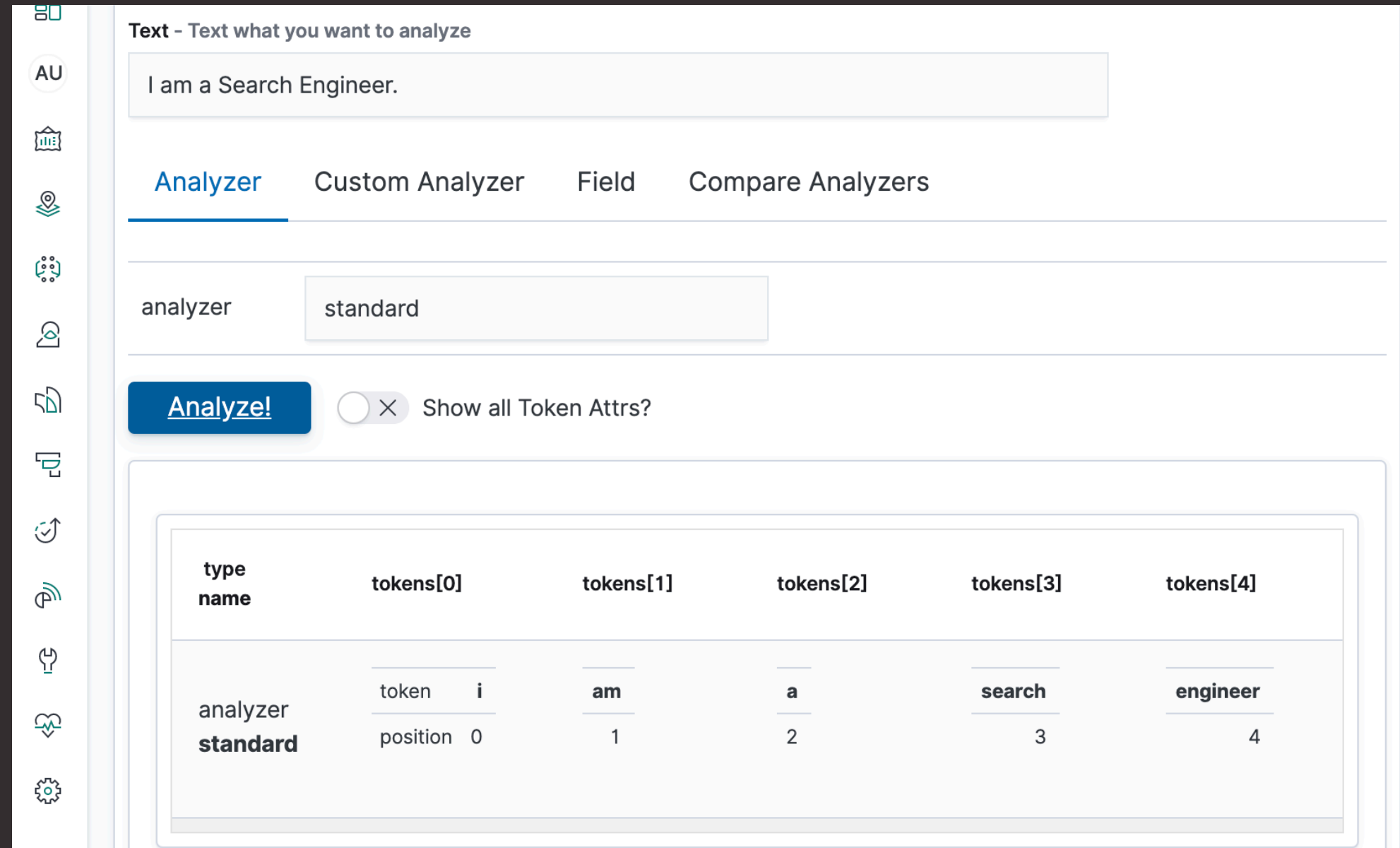
# Analyze API?

```
{
  "tokens": [
    {
      "token": "quick",
      "start_offset": 0,
      "end_offset": 5,
      "type": "<ALPHANUM>",
      "position": 0
    },
    {
      "token": "brown",
      "start_offset": 6,
      "end_offset": 11,
      "type": "<ALPHANUM>",
      "position": 1
    },
    ...
  ]
}
```



見づらくはない？

# Kibana Analyze API UI plugin



Text - Text what you want to analyze

I am a Search Engineer.

Analyzer Custom Analyzer Field Compare Analyzers

analyzer standard

Analyze!  Show all Token Attrs?

type name	tokens[0]	tokens[1]	tokens[2]	tokens[3]	tokens[4]
analyzer	token i	am	a	search	engineer
standard	position 0	1	2	3	4

Kibanaなくとも  
動かしたいな？

エディタで書いて  
動くと便利?

MSのイベントで  
しゃべる?

となると?





ってことで作って見た

[https://bit.ly/vs-  
code-es-analyze](https://bit.ly/vs-code-es-analyze)

デモ!



EXTENSIONS ☰ ⋮

Search Extensions in Marketplace

▼ **ENABLED** 9

- Azure Search Analyze Client** 0.2.0  
The Client for Azure Cognitive Sear...  
Jun Ohtani ⚙️
- Deckset** 0.2.1  
Make Deckset files in VSCode sple...  
Deanius Solutions ⚙️
- Elasticsearch Developer tool** 1.2.13  
Has autocomplete support and oth...  
crasnam ⚙️
- ★ **ESLint** 2.1.1  
Integrates ESLint JavaScript into V...  
Dirk Baeumer ⚙️
- Markdown All in One** 2.7.0  
All you need to write Markdown (ke...  
Yu Zhang ⚙️
- ★ **markdownlint** 0.34.0  
Markdown linting and style checkin...

▼ **RECOMMENDED** 8

- ★ **Debugger for Chrome** 4.12.6  
Debug your JavaScript code in the ...  
Microsoft Install
- ★ **Debugger for Firefox** 2.7.1  
Debug your web application or bro...  
Firefox DevTools Install
- ★ **npm** 0.3.11  
npm support for VS Code  
egamma Install
- ★ **npm Intellisense** 1.3.0  
Visual Studio Code plugin that auto...  
Christian Kohler Install
- ★ **Git History** 0.6.3  
View git log, file history, compare br...

> **DISABLED** 0



- Show All Commands ⇧ ⌘ P
- Open File or Folder ⌘ O
- Open Recent ⇧ R
- New Untitled File ⌘ N



# Thanks!

- **GitHub** : <https://github.com/johtani/vs-code-es-analyze-client>
- **VS Code Marketplace** : <https://bit.ly/vs-code-es-analyze>
- **Analyze API** : <https://www.elastic.co/guide/en/elasticsearch/reference/current/indices-analyze.html>