Analysis

- Sometimes referred to as text analysis
- Applicable to text fields/values
- Text values are analyzed when indexing documents
- The result is stored in data structures that are efficient for searching etc.
- The _source object is not used when searching for documents
 - It contains the exact values specified when indexing a document



Character filters

- Adds, removes, or changes characters
- Analyzers contain zero or more character filters
- Character filters are applied in the order in which they are specified
- Example (html_strip filter)
 - o Input: "I'm in a good mood - and
 I love açaí!"
 - Output: "I'm in a good mood and I love açaí!"



Tokenizers

- An analyzer contains one tokenizer
- Tokenizes a string, i.e. splits it into tokens
- Characters may be stripped as part of the tokenization
- Example
 - o Input: "I REALLY like beer!"
 - Output: ["I", "REALLY", "like", "beer"]



Token filters

- Receive the output of the tokenizer as input (i.e. the tokens)
- A token filter can add, remove, or modify tokens
- An analyzer contains zero or more token filters
- Token filters are applied in the order in which they are specified
- Example (lowercase filter)
 - o Input: ["I", "REALLY", "like", "beer"]
 - Output: ["i", "really", "like", "beer"]



Built-in and custom components

- Built-in analyzers, character filters, tokenizers, and token filters are available
- We can also build custom ones
 - You will see how later in this section
- For now, let's see how text values are analyzed by default...

