

# The match query



# Introduction to the `match` query

- The most widely used full text query
- Matches documents that contain one or more of the specified terms
- The search term is analyzed and the result is looked up in the field's inverted index

## Query

```
GET /products/_search
{
  "query": {
    "match": {
      "name": "PASTA CHICKEN"
    }
  }
}
```

"PASTA CHICKEN"

## Analyzer



["pasta", "chicken"]

## Inverted index for name field

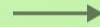
TERM	DOCUMENT #1
"spaghetti"	X
"pasta"	X
"beef"	X
"chicken"	X
"spinach"	X

```
GET /products/_search
{
  "query": {
    "match": {
      "name": "PASTA CHICKEN"
    }
  }
}
```



"pasta" OR "chicken"

```
GET /products/_search
{
  "query": {
    "match": {
      "name": "PASTA CHICKEN",
      "operator": "AND"
    }
  }
}
```



"pasta" AND "chicken"



# Lecture summary

- The `match` query is a fundamental query in Elasticsearch
- Used for most full text searches
- Powerful & flexible when using advanced parameters
- Supports most data types (e.g. dates and numbers)
  - **Recommendation:** Use term level queries if you know the input value
- If the analyzer outputs multiple terms, at least one must match by default
  - This can be changed by setting the `operator` parameter to "and"