

YAML

YAML

❖ 기본 문법

✓ 들여쓰기(indent)

- 들여쓰기는 기본적으로 2칸 또는 4칸을 지원
- 2칸 들여쓰기

```
person:  
  name: Chungsub Kim  
  job: Developer  
  skills:  
    - docker  
    - kubernetes
```

- 4칸 들여쓰기

```
person:  
    name: Chungsub Kim  
    job: Developer  
    skills:  
        - docker  
        - kubernetes
```



YAML

❖ 기본 문법

✓ map

● JSON

```
{  
  "apiVersion": "v1",  
  "kind": "Pod",  
  "metadata": {  
    "name": "echo",  
    "labels": {  
      "type": "app"  
    }  
  }  
}
```

● YAML

```
apiVersion: v1  
kind: Pod  
metadata:  
  name: echo  
  labels:  
    type: app
```



YAML

❖ 기본 문법

✓ array

● JSON

```
{  
  "person": {  
    "name": "Chungsub Kim",  
    "job": "Developer",  
    "skills": [  
      "docker", "kubernetes"  
    ]  
  }  
}
```

● YAML

```
person:  
  name: Chungsub Kim  
  job: Developer  
  skills:  
    - docker  
    - kubernetes
```



YAML

❖ 기본 문법

✓ comment

● 전체 라인 주석 처리

comment

person:

name: Chungsub Kim

job: Developer

skills:

- docker

- kubernetes

● 일부 주석 처리

person:

name: Chungsub Kim # subicura

job: Developer

skills:

- docker

- kubernetes



YAML

❖ 기본 문법

✓ 스칼라 데이터 표현

- 참/거짓 – true/false, yes/no

```
study_hard: yes
give_up: no
hello: True
world: TRUE
manual: false
```

- 숫자

```
# number
version: 1.2
```

```
# string
version: "1.2"
```



YAML

❖ 기본 문법

✓ 줄 바꿈

- JSON

```
{  
  "newlines_sample": "number one line\n\nsecond line\n\nlast line\n"  
}
```

- |는 마지막 줄 바꿈 - YAML

```
newlines_sample: |  
    number one line  
  
    second line  
  
    last line
```



YAML

❖ 기본 문법

✓ 줄 바꿈

- JSON

```
{  
  "newlines_sample": "number one line\n\nsecond line\n\nlast line"  
}
```

- |-는 마지막 줄 바꿈을 제외 - YAML

```
newlines_sample: |-  
  number one line
```

```
  second line
```

```
  last line
```



YAML

❖ 기본 문법

✓ 줄 바꿈

- JSON

```
{  
  "newlines_sample": "number one line\nsecond line\nlast line\n"  
}
```

- >는 중간에 들어간 빈 줄을 제외 - YAML

```
newlines_sample: >  
    number one line  
  
    second line  
  
    last line
```



YAML

❖ 주의사항

✓ 띄어쓰기

- Key 와 Value 사이에는 반드시 빈 칸이 필요

error (not key-value, string)

key:value

ok

key: value

✓ 문자열 따옴표

- 대부분의 문자열을 따옴표 없이 사용할 수 있지만 :가 들어간 경우는 반드시 따옴표가 필요

error

windows_drive: c:

ok

windows_drive: "c:"

windows_drive: 'c:'



YAML

❖ JSON 변환 및 문법 확인

✓ json2yaml - <https://www.json2yaml.com/>

JSON to YAML

Convert JSON to YAML online

YAML vs JSON

when to prefer one over the other

JSON

a subset of the JavaScript object notation syntax

- data stored in name/value pairs
- records separated by commas
- field names & strings are wrapped by double quotes

YAML

stands for YAML ain't markup language and is a superset of JSON

- Convert YAML to JSON

- .yaml files begin with '---', marking the start of the document
- key value pairs are separated by colon
- lists begin with a hyphen

JSON

```
1 {
2   "json": [
3     "rigid",
4     "better for data interchange"
5   ],
6   "yaml": [
7     "slim and flexible",
8     "better for configuration"
9   ],
10  "object": {
11    "key": "value",
12    "array": [
13      {
14        "null_value": null
15      },
16      {
17        "boolean": true
18      },
19      {
20        "integer": 1
21      }
22    ],
23  },
24  "paragraph": "Blank lines
25  denote\nparagraph breaks\n",
26  "content": "Or we\ncan
27  auto\nconvert line breaks\nto save
28  space"
29 }
```

YAML

```
1 ---
2 # <- yaml supports comments, json
3 # does not
4 # did you know you can embed json in
5 # yaml?
6 # try uncommenting the next line
7 # { foo: 'bar' }
8
9 json:
10 - rigid
11 - better for data interchange
12
13 yaml:
14 - slim and flexible
15 - better for configuration
16
17 object:
18   key: value
19   array:
20     - null_value:
21     - boolean: true
22     - integer: 1
23
24 paragraph: >
25   Blank lines denote
26   paragraph breaks
27
28 content: |-
29   Or we
30   can auto
31   convert line breaks
32   to save space
```

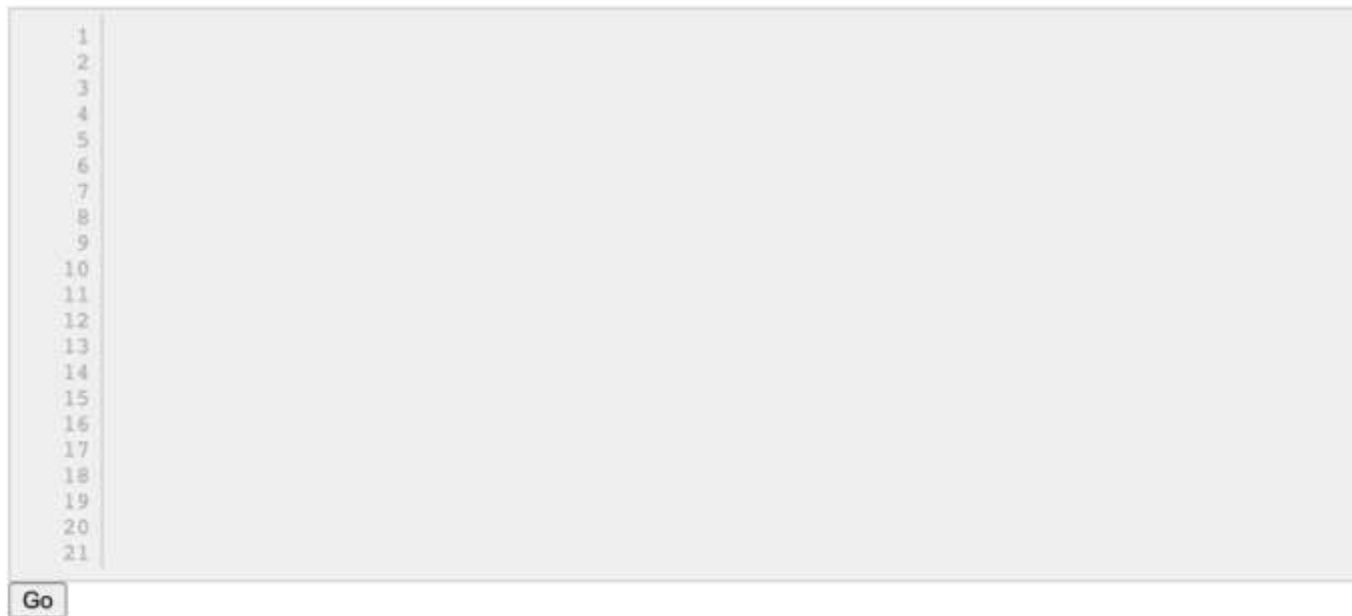
YAML

❖ JSON 변환 및 문법 확인

- ✓ yamllint - <https://www.yamllint.com/>

YAML Lint

Paste in your YAML and click "Go" - we'll tell you if it's valid or not, and give you a nice clean UTF-8 version of it. Optimized for Ruby.



The screenshot shows the YAML Lint web interface. It features a large, empty text input area for pasting YAML code. To the left of the input area is a vertical line of numbers from 1 to 21, serving as a line indicator. At the bottom left of the input area is a small button labeled "Go".