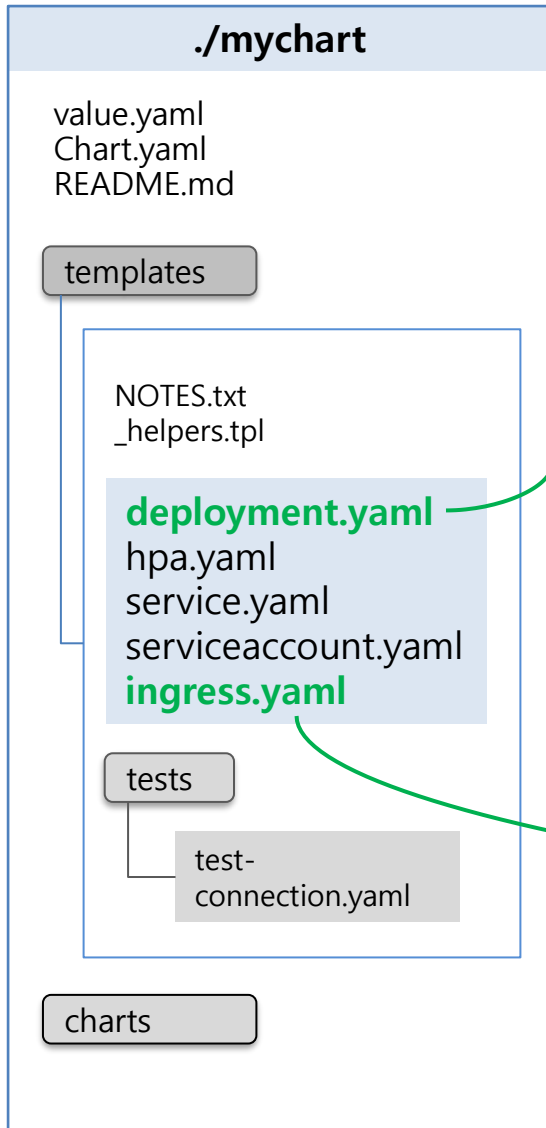


# - 내 차트 만들기2 - template 만들기



```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: {{ include "testchart.fullname" . }}
  labels:
    {{- include "testchart.labels" . | nindent 2 }}
spec:
  {{- if not .Values.enabled }}
  replicas: {{ .Values.replicaCount }}
  {{- end }}
  selector:
    matchLabels:
      {{- include "testchart.selectorLabels" . | nindent 6 }}
  template:
    metadata:
      {{- with .Values.podLabels }}
      annotations:
        {{- toYaml . | nindent 8 }}
      {{- end }}
      labels:
        {{- include "testchart.selectorLabels" . | nindent 8 }}
    spec:
      ...
```

Annotations: 파이프라인, 흐름제어, 흐름제어, 함수

```
{{- if .Values.ingress.enabled -}}
{{- $fullName := include "testchart.fullname" . -}}
{{- $svcPort := .Values.service.port -}}
apiVersion: extensions/v1beta1
kind: Ingress
metadata:
  name: {{ $fullName }}
  labels:
    {{- include "testchart.labels" . | nindent 4 }}
  {{- with .Values.ingress.annotations }}
  annotations:
    {{- toYaml . | nindent 4 }}
  {{- end }}
spec:
  {{- if .Values.ingress.tls }}
  tls:
    {{- range .Values.ingress.tls }}
    - hosts:
      {{- range .hosts }}
      - {{ . | quote }}
      {{- end }}
      secretName: {{ .secretName }}
    {{- end }}
  {{- end }}
  ...
```

Annotations: 변수, 흐름제어

# - 내 차트 만들기2 - 함수와 파이프라인 그리고 흐름제어

## function & pipeline

### values.yaml

```
func:
  enabled: true
```

### \_helper.tpl

```
{{- define "mychart.name" -}}
mychart
{{- end }}
```

```
{{ function 인자1 인자2 }}
```

```
{{ quote .Values.func.enabled }}
{{ include "mychart.name" . }}
```

"true"

mychart

```
{{ Values | functions }}
```

```
{{.Values.func.enabled | quote }}
{{.Values.func.enabled | upper | quote }}
```

"true"

"TRUE"

TRUE

## flow controll

### values.yaml

```
dev:
  env: dev
  log: info
```

```
qa:
  env: qa
  log: info
```

```
prod:
  env: prod
  log:
```

```
{{ if 조건문 }}
{{ else if 조건문 }}
{{ else }}
{{ end }}
```

```
{{- if eq .Values.dev.env "dev" }}
  log: debug
{{- else if .Values.dev.env }}
  log: {{ .Values.dev.log }}
{{- else }}
  log: error
{{- end }}
```

log: debug

and(&&), or(||), ne(!=), not(!),  
eq(=), ge(>=), gt(>), le(<=), lt(<),  
default, empty

Number: 0, String: "", List: [],  
Object: {}, Boolean: false, Null

```
{{ with 부모값 }}
  {{ 하위값 }}
{{ end }}
```

```
{{- with .Values.dev }}
  env: {{ .env }}
  log: {{ .log }}
{{- end }}
```

env: dev  
log: info

```
list:
- a
- b
- c
```

```
{{ range 부모값(리스트) }}
  {{ 하위값 }}
{{ end }}
```

```
range:
  list [a, b, c]
  {{- range .Values.list }}
    - {{ . }}
  {{- end }}
```

range:

- a  
- b  
- c

range:  
- a  
- b  
- c

# - 내 차트 만들기2 - 다양한 함수들1

## various functions

### values.yaml

**print:**

a: "1"  
b: "2"

**ternary:**

case1: true  
case2: false

**data:**

- a  
- b  
- c

### templates (yaml)

**<print>**

```
print: {{ print "Hard Cording" }}  
printf: {{ printf "%s-%s" .Values.print.a .Values.print.b }}
```

Hard Cording

1-2

**<ternary>**

```
case1: {{ .Values.ternary.case1 | ternary "1" "2" }}  
case2: {{ .Values.ternary.case2 | ternary "1" "2" }}
```

"1"

"2"

**<indent>**

```
data:  
2 indent:  
4 {{ .Values.data }} | toYaml }}
```

**data:**  
**indent:**

4 - a  
4 - b  
4 - c

**data:**  
**indent:**

4 - a  
- b  
- c

```
data:  
2 indent:  
{{ .Values.data | toYaml | indent 4 }}
```

```
data:  
2 indent:  
2 {{- .Values.data | toYaml | indent 4 }}
```

**nindent**

**data:**  
**indent:- a**

4 - b  
4 - c

**data:**  
**indent:**

4 - a  
4 - b  
4 - c

```
data:  
2 indent:  
2 {{- .Values.data | toYaml | nindent 4 }}
```

# - 내 차트 만들기2 - 다양한 함수들2

## various functions

### values.yaml

```
default:  
  nil:  
  list: []  
  object: {}  
  number: 0  
  string: ""  
  boolean: false
```

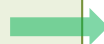
### templates (yaml)

```
<default>  
nil:      {{ .Values.default.nil | default "default" }}  
list:     {{ .Values.default.list | default (list "default1" "default2") | toYaml | nindent 6 }}  
object:   {{ .Values.default.object | default "default: 1" | toYaml | nindent 6 }}  
number:   {{ .Values.default.number | default 1 }}  
string:   {{ .Values.default.string | default "default" }}  
boolean:  {{ .Values.default.boolean | default true }}
```



```
default  
  nil: default  
  list:  
    - default1  
    - default2  
  object:  
    default:1  
  number: 1  
  string: default  
  boolean: true
```

```
<trim>  
trim: {{ trim " hello " }}  
trimPrefix: {{ trimPrefix "-" "-hello" }}  
trimSuffix: {{ trimSuffix "-" "hello-" }}
```



```
hello
```



```
hello
```

```
# 0-9a-zA-Z  
# a-zA-Z  
# 0-9  
# ASCII
```

```
<random>  
randAlphaNum: {{ randAlphaNum 5 }}  
randAlpha:    {{ randAlpha 5 }}  
randNumeric:  {{ randNumeric 5 }}  
randAscii:    {{ randAscii 5 }}
```



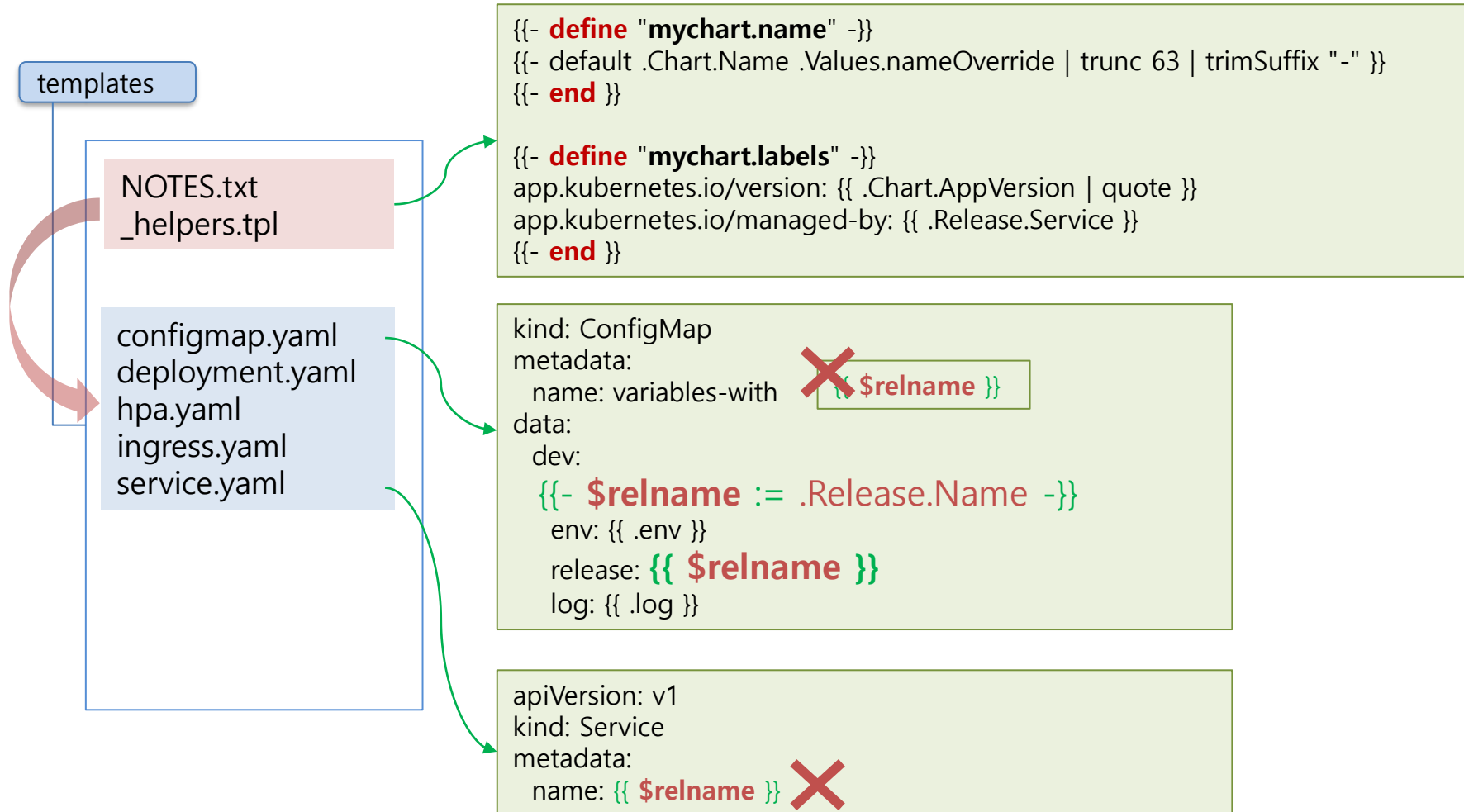
```
sXzu0  
CduYc  
49440  
F^w@C
```

```
trunc:    {{ trunc 5 "hello world" }}  
replace:  {{ "hello world" | replace " " "-" }}  
contains: {{ contains "cat" "catch" }}  
b64enc:   {{ b64enc "hello" }}
```



```
hello  
hello-world  
true  
aGVsbG8=
```

# - 내 차트 만들기2 - 지역 변수 사용



# - 내 차트 만들기2 - 지역 변수 사용

## with 내부에서 사용

### values.yaml

```
dev:
  env: dev
  log: info

qa:
  env: qa
  log: info

prod:
  env: prod
  log:
```

### templates (yaml)

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: variables-with
data:
  dev:
    {{- with .Values.dev }}
    env: {{ .env }}
    release: {{ .Release.Name }}
    log: {{ .log }}
    {{- end }}
```

```
dev:
  env: dev
  release: mychart
  log: info
```

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: variables-with
data:
  dev:
    {{- $relname := .Release.Name -}}
    {{- with .Values.dev }}
    env: {{ .env }}
    release: {{ $relname }}
    log: {{ .log }}
    {{- end }}
```

## range와 함께 사용

### values.yaml

```
list:
  - a
  - b
  - c
```

```
index:
  0: a
  1: b
  2: c
```

```
List<String> list = [a,b,c]
int index=0;

for (String value : list) {
  printf(index : value);
  index++;
};
```

```
map:
  env: dev
  log: info
```

```
key-value:
  env: "dev"
  log: "info"
```

```
Map<String, String> map =
  [(env,dev), (log,info)]

for (String key : map.keySet()) {
  printf(key: "map.values()");
};
```

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: variables-range
data:
  index:
    {{- range $index, $value := .Values.list }}
    {{ $index }}: {{ $value }}
    {{- end }}
```

```
key-value:
  {{- range $key, $value := .Values.map }}
  {{ $key }}: {{ $value | quote }}
  {{- end }}
```