

## Installation

```
curl -s "https://raw.githubusercontent.com/kubernetes-sigs/kustomize/master/hack/install_kustomize.sh" | bash
```

## Basic Usage

### Built Into kubectl

Kustomize is built into `kubectl`. `kubectl apply -k` acts the same was as `kustomize build path/to/some/app | kubectl apply -f -`.

### Create Base

From Kubernetes Manifests

Search all Kubernetes resources in the current directory and add them to `resources`

```
kustomize create --autodetect
```

### From Kustomization Base

Use `path/to/base` of another kustomization overlay as base to the new one

```
kustomize create --resources path/to/base
```

Search current directory and all sub-directories

```
kustomize create --resources path/to/base --recursive
```

## Build Resources

### URL

```
kustomize build https://github.com/kubernetes-sigs/kustomize.git/examples/helloWorld?ref=v1.0.6
```

## Modifying Base

### Labels & Annotations

Create new kustomization.yaml from remote resources, adding to all the resources

labels `app=hello-world` and `cloud=gcp`

```
$ kustomize create --resources https://github.com/kubernetes-sigs/kustomize.git/examples/helloWorld\?ref\=v1.0.6 --labels app:hello-world,cloud:gcp
$ kustomize build .
```

## Namespace

Create new kustomization.yaml from remote resources, adding `namespace` attribute to all its resources

```
kustomize create --resources https://github.com/kubernetes-sigs/kustomize.git/examples/helloWorld\?ref\=v1.0.6 --namespace dev
kustomize build .
```

## Resource Names

```
$ kustomize create --resources https://github.com/kubernetes-sigs/kustomize.git/examples/helloWorld\?ref\=v1.0.6
$ kustomize edit set nameprefix temp
$ kustomize build .
```

## Images

Update the image `monopole/hello:1` to `monopole/hello:latest`

```
$ kustomize create --resources https://github.com/kubernetes-  
sigs/kustomize.git/examples/helloWorld\?ref\=v1.0.6  
$ kustomize edit set image monopole/hello:1=monopole/hello:latest  
$ kustomize build .
```

## ConfigMap & Secret

### Generate ConfigMap manifests from variables

```
$ kustomize create --resources https://github.com/kubernetes-  
sigs/kustomize.git/examples/helloWorld\?ref\=v1.0.6  
$ kustomize edit add configmap hello-world --behavior create --from-  
literal=host=google.com  
$ kustomize build .
```

## JSON Patch

### Update the number of the replicas

```
$ cat <<EOF > patch.yaml  
- op: replace  
  path: /spec/replicas  
  value: 1  
EOF  
$ kustomize create --resources https://github.com/kubernetes-  
sigs/kustomize.git/examples/helloWorld\?ref\=v1.0.6  
$ kustomize edit add patch --kind Deployment --path patch.yaml  
$ kustomize build .
```

## Strategic Merge

### Add `emptyDir` volume

```
$ cat <<EOF > patch.yaml  
apiVersion: apps/v1  
kind: Deployment  
metadata:  
  name: the-deployment  
spec:
```

```
template:
spec:
  containers:
  - name: the-container
    volumeMounts:
    - name: emptyDir
      mountPath: /appdata
  volumes:
  - name: emptyDir
    emptyDir: {}
EOF
$ kustomize create --resources https://github.com/kubernetes-
sigs/kustomize.git/examples/helloWorld\?ref\=v1.0.6
$ kustomize edit add patch --kind Deployment --path patch.yaml
$ kustomize build .
```

## Remove Resource

Completely omit resources from the final manifest set

```
$ cat <<EOF > patch.yaml
\patch: delete
apiVersion: v1
kind: ConfigMap
metadata:
  name: the-map
EOF
$ kustomize create --resources https://github.com/kubernetes-
sigs/kustomize.git/examples/helloWorld\?ref\=v1.0.6
$ kustomize edit add patch --kind ConfigMap --path patch.yaml
$ kustomize build .
```