

# 1 JSONPath Syntax

Function	Description	Example
<code>text</code>	the plain text	<code>kind is {.kind}</code>
<code>@</code>	the current object	<code>{@}</code>
<code>.</code> or <code>[]</code>	child operator	<code>{.kind}</code> , <code>{['kind']}</code> or <code>{['name\.type']}</code>
<code>..</code>	recursive descent	<code>{..name}</code>
<code>*</code>	wildcard. Get all objects	<code>{.items[*].metadata.name}</code>
<code>[start:end:step]</code>	subscript operator	<code>{.users[0].name}</code>
<code>[,]</code>	union operator	<code>{.items[*]['metadata.name', 'status.capacity']}</code>
<code>?()</code>	filter	<code>{.users[?(@.name="e2e")].user.password}=</code>
<code>range, end</code>	iterate list	<code>{range .items[*]}[{.metadata.name}, {.status.capacity}] {end}</code>
<code>''</code>	quote interpreted string	<code>{range .items[*]}{.metadata.name}{'\t'}{end}</code>

## 1.1 Examples with kubectl

Examples using kubectl and JSONPath expressions:

```
kubectl get pods -o json
kubectl get pods -o=jsonpath='{@}'
kubectl get pods -o=jsonpath='{.items[0]}'
kubectl get pods -o=jsonpath='{.items[0].metadata.name}'
kubectl get pods -o=jsonpath="{.items[*]['metadata.name', 'status.capacity']}"
kubectl get pods -o=jsonpath='{range .items[*]}{.metadata.name}{"\t"}{.status.startTime}{"\n"}{end}'
```

## 1.2 Regex is not supported

JSONPath regular expressions are not supported. If you want to match using regular expressions, you can use a tool such as jq.

```
# kubectl does not support regular expressions for JSONpath output
# The following command does not work
kubectl get pods -o jsonpath='{.items[?(@.metadata.name=~/^test$/)].metadata.name}'

# The following command achieves the desired result
kubectl get pods -o json | jq -r '.items[] | select(.metadata.name | test("test-")).spec.containers[].image'
```

From the JSONPath Support section in the Kubernetes Docs