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# alternative

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alternatives

, java, editor, (x)emacs, (n)vi(m)  
, alternatives

# alternatives

- : ,
- : ,
- : ,

em 가 , nem :

- em /opt/em-legacy/em2 , nem /usr/local/bin/nem
- uemacs :

```
alternatives --install /usr/bin/em uemacs /opt/em-legacy/em2 1
alternatives --install /usr/bin/em uemacs /usr/local/bin/nem 99
```

, alternatives -config uemacs :

```
alternatives --config uemacs
```

, 가 ,

- alternatives ( : EDITOR, CC) /etc (\$HOME/.profile)
- alternatives ,

# Master - Slave

Master-Slave ? alternatives ( : /usr/bin/java ) , ( : javac, javadoc, javaws )

## Master-Slave

alternatives master-slave

1.

가 :

- /usr/lib/jvm/java-8-openjdk/bin/java
- /usr/lib/jvm/java-11-openjdk/bin/java

## 2. Master-Slave

```
alternatives --install /usr/bin/java java /usr/lib/jvm/java-8-
openjdk/bin/java 1 \
  --slave /usr/bin/javac javac /usr/lib/jvm/java-8-openjdk/bin/javac \
  --slave /usr/bin/javadoc javadoc /usr/lib/jvm/java-8-openjdk/bin/javadoc
\
  --slave /usr/bin/javaws javaws /usr/lib/jvm/java-8-openjdk/bin/javaws

alternatives --install /usr/bin/java java /usr/lib/jvm/java-11-
openjdk/bin/java 2 \
  --slave /usr/bin/javac javac /usr/lib/jvm/java-11-openjdk/bin/javac \
  --slave /usr/bin/javadoc javadoc /usr/lib/jvm/java-11-
openjdk/bin/javadoc \
  --slave /usr/bin/javaws javaws /usr/lib/jvm/java-11-openjdk/bin/javaws
```

## 3. Master-Slave

1. /usr/bin/java가
2. javac, javadoc, javaws
3. 가 alternatives -config java , (javac, javadoc, javaws)

# Master-Slave

```
alternatives --display java
```

:

```
java - status is auto.  
link currently points to /usr/lib/jvm/java-11-openjdk/bin/java  
/usr/lib/jvm/java-8-openjdk/bin/java - priority 1  
slave javac: /usr/lib/jvm/java-8-openjdk/bin/javac  
slave javadoc: /usr/lib/jvm/java-8-openjdk/bin/javadoc  
slave javaws: /usr/lib/jvm/java-8-openjdk/bin/javaws  
/usr/lib/jvm/java-11-openjdk/bin/java - priority 2  
slave javac: /usr/lib/jvm/java-11-openjdk/bin/javac  
slave javadoc: /usr/lib/jvm/java-11-openjdk/bin/javadoc  
slave javaws: /usr/lib/jvm/java-11-openjdk/bin/javaws
```

1. alternatives **Master-Slave** ,
2. .
3. ( : python) .

## alternatives python

python

```
alternatives --install /usr/bin/python python /usr/bin/python3.9 1  
alternatives --install /usr/bin/python python /usr/bin/python3.12 2  
  
alternatives --config python
```

python3

```
alternatives --install /usr/bin/python3 python3 /usr/bin/python3.9 1  
alternatives --install /usr/bin/python3 python3 /usr/bin/python3.12 2  
  
alternatives --config python3
```

- master-slave

```
alternatives --install /usr/bin/python python /usr/bin/python3.9 1 \  
--slave /usr/bin/python3 python3 /usr/bin/python3.9
```

```
alternatives --install /usr/bin/python python /usr/bin/python3.12 2 \  
--slave /usr/bin/python3 python3 /usr/bin/python3.12
```

```
alternatives --config python
```

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