

# Listener

- Servlet Container가 수행한 특정한 타입의 동작(이벤트)을 감지해
- 해당 이벤트에 대해 별도의 작업을 수행하는 객체

## Listener 종류

| Event Source   | Event                        | Event Listener                  |                       |
|----------------|------------------------------|---------------------------------|-----------------------|
| ServletContext | ServletContextEvent          | <b>ServletContextListener</b>   | 웹 애플리케이션 시작, 종료       |
| ServletContext | ServletContextAttributeEvent | ServletContextAttributeListener | ServletContext 속성 변경  |
| HttpSession    | HttpSessionEvent             | <b>HttpSessionListener</b>      | 세션 시작, 종료             |
| HttpSession    | HttpSessionBindingEvent      | HttpSessionAttributeListener    | 세션 속성 변경              |
| ServletRequest | ServletRequestEvent          | ServletRequestListener          | ServletRequest 생성, 종료 |
| ServletRequest | ServletRequestAttributeEvent | ServletRequestAttributeListener | ServletRequest 속성 변경  |

## ServletContainerListener interface 및 Listener 등록

```
javax.servlet.ServletContextListener interface
public interface ServletContextListener extends EventListener {
    default public void contextInitialized(ServletContextEvent sce) {}
    default public void contextDestroyed(ServletContextEvent sce) {}
}
```

```
<listener>
  <listener-class>com.nhnacademy.listener.WebAppListener</listener-
class>
</listener>
```

## java.servlet.HttpSessionListener interface

```
public interface HttpSessionListener extends EventListener {
    default public void sessionCreated(HttpSessionEvent se) {}
    default public void sessionDestroyed(HttpSessionEvent se) {}
}
```

