

6-3 使用@Autowired



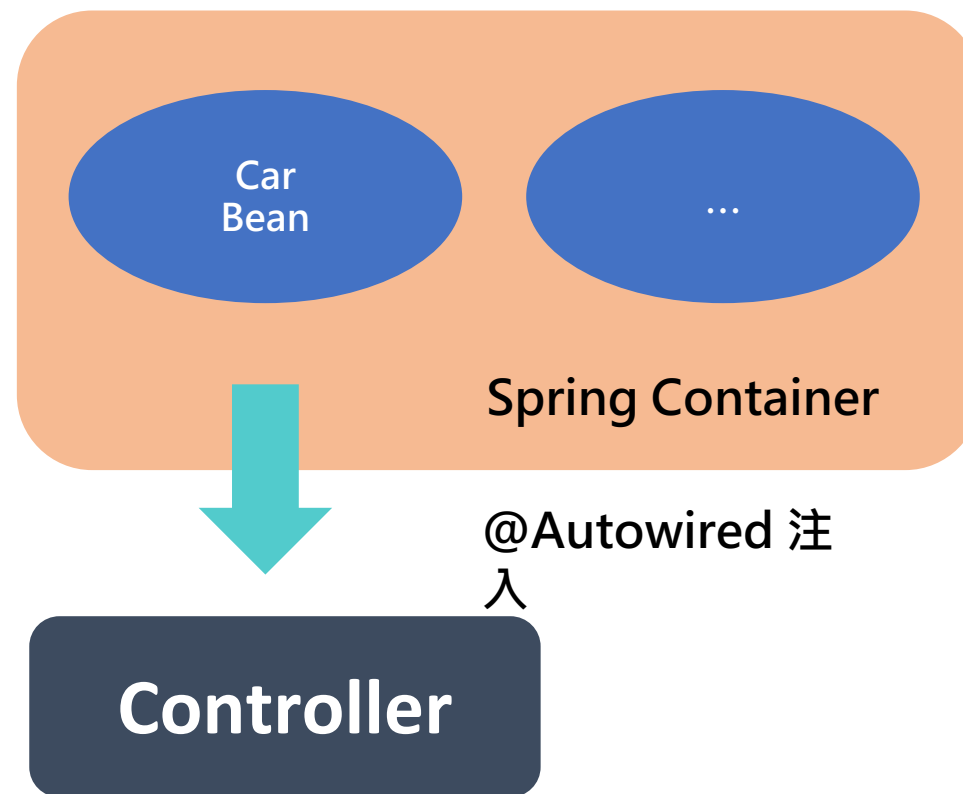
Spring 2.5導入@Autowired

之前版本我們使用 Config(XML)配置Spring Bean

使用@Autowired可以避免使用 setter/getter注入相依物件 (DI)

可用在Constructor/Data Field/setter Method(Property Injection)配置相依物件

Spring Bean可使用@Bean與@Component與@Repository進行定義配置



透過封裝的Data Field進行注入

- 注入Car應用

Car本身為建構子注入依賴的引擎與變速箱物件

```
@Controller
public class CarController {
    //Data Field注入依賴物件
    @Autowired
    private Car car;

    @RequestMapping(path="/car/show",method= {RequestMethod.GET})
    public String showCar(Model model) {
        //參照注入的Car物件 (持續狀態到View)
        model.addAttribute("car",car);
        return "carshow";
    }
}
```

```
@Component
public class Car {
    private Engine engine;
    private Transmission transmission;


    //建構子注入
    @Autowired
    public Car(Engine engine, Transmission transmission) {
        System.out.println(engine);
        this.engine = engine;
        this.transmission = transmission;
    }
}
```

需要經由@ComponentScan()進行掃描產生Spring Bean進入Spring Container

```
import org.springframework.boot.SpringApplication;
//配置自動掃描元件註冊到Spring Container
@SpringBootApplication
@ComponentScan(basePackages= {"com.tibame.controller","com.tibame.component"})
public class MywebApplication {

    public static void main(String[] args) {
        SpringApplication.run(MywebApplication.class, args);
    }

}
```





總結：6-3 使用@Autowired

了解@Autowired注入依賴物件
之後，我們來了解@Resource注
入意義

