

# NODE, TS & IOC

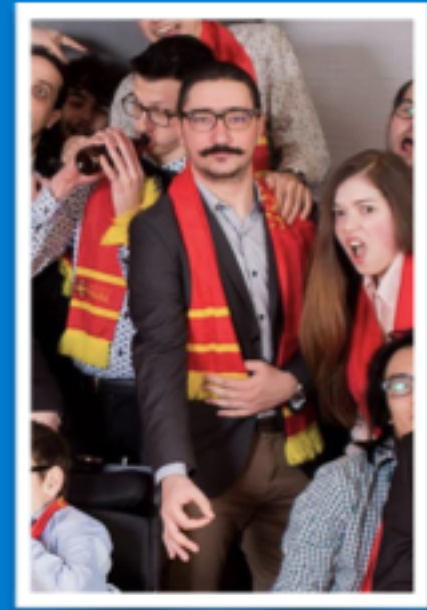
---

MED MOUINE

# ABOUT ME

---

- Third year SE student
- Currently dev @ INGENO
- Teaching assistant @ Web
  
- Ex-dev @ Q0HASH inc.
- Ex-dev intern @ Ticketmaster
- Ex-CSEC Analyst intern @ CNESST
  
- ASETIN
- CFI
- CS Games



# WHY USE TYPESCRIPT

---

- Pros :
  - Trendy
  - NPM community
  - JS + OO/Typed languages advantages
  - Flexibility
- Cons :
  - NPM community



# JS VS TS

---

**js** helloWorld.js

```
1  var printHelloWorld = () => {  
2      console.log('Hello world !')  
3  }  
4  
5  printHelloWorld()  
6
```

# JS VS TS

---

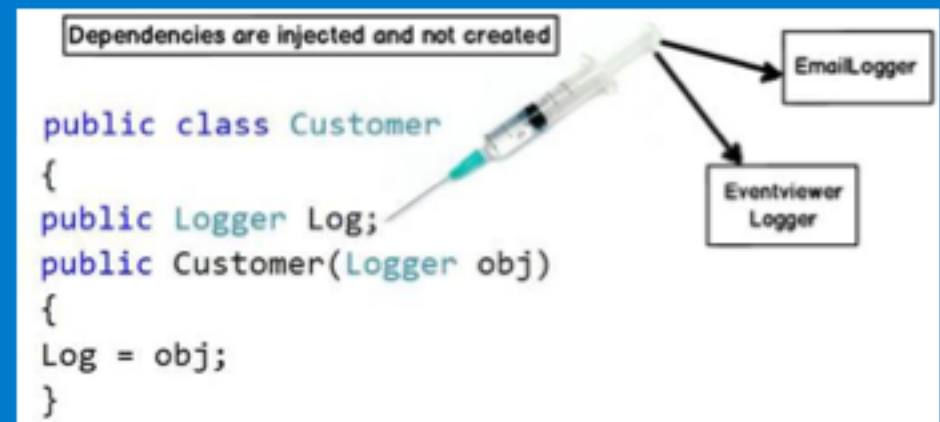
**TS** helloWorld.ts

```
1  /* tslint:disable */
2  var printHelloWorld = () => {
3      console.log('Hello world !')
4  }
5
6  printHelloWorld()
7
```

# IOC

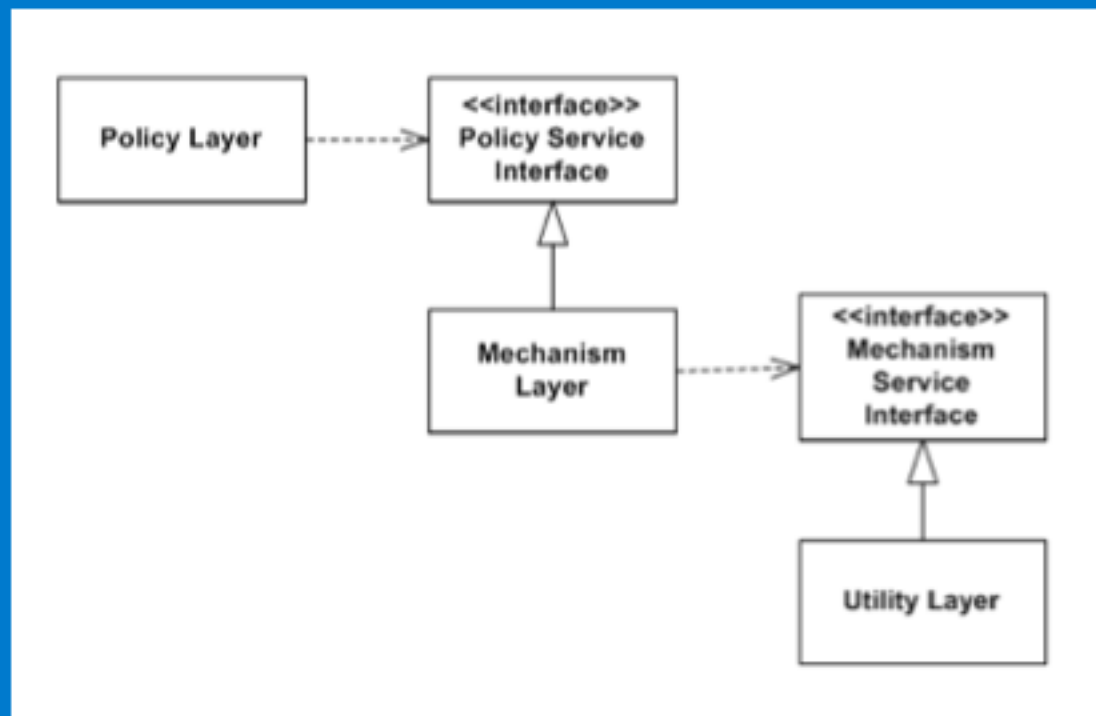
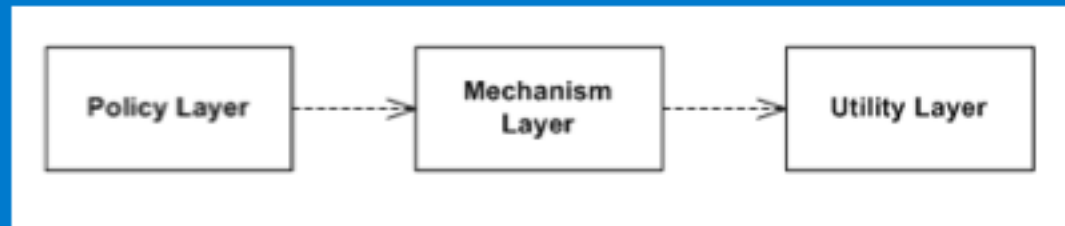
---

- Main goal :
  - ↑ Cohesion, ↓ Coupling
  - ↑ Maintainability & openness to change
- Implemented in several ways
  - Event based approach
  - Delegates
  - DI
  - Etc...
- Hollywood Principle
  - “Don’t call us we will call you”



# #DROP TON COUPLAGE

---



# IOC VS DEPENDENCY INJECTION

---

“Inversion of Control is too generic a term, and thus people find it confusing. As a result with a lot of discussion with various IoC advocates we settled on the name Dependency Injection.”

- Martin Flower



# TYPESCRIPT AND IDC

---

- Inversify

- [inversify.io](https://inversify.io)



- Typescript IoC

- [github.com/thiagobustamante/typescript-ioc](https://github.com/thiagobustamante/typescript-ioc)

- Awilix

- [github.com/jeffijoe/awilix](https://github.com/jeffijoe/awilix)

DEMO

.....

# RESOURCES

---

- [samueleresca.net/2016/08/solid-principles-using-typescript/](http://samueleresca.net/2016/08/solid-principles-using-typescript/)
- [martinfowler.com/articles/injection.html](http://martinfowler.com/articles/injection.html)
- [github.com/inversify/InversifyJS](https://github.com/inversify/InversifyJS)
- [github.com/inversify/inversify-express-utils](https://github.com/inversify/inversify-express-utils)
- [github.com/medmouine/inversify-starter](https://github.com/medmouine/inversify-starter)
- [github.com/medmouine/inversify-workshop](https://github.com/medmouine/inversify-workshop)
- Clean code — Robert Cecil Martin
- [stackoverflow.com](http://stackoverflow.com)

QUOTES!  
IONS?