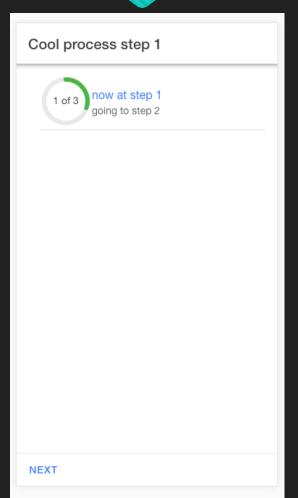
Reusable Components and rxjs Observables in Ionic-Angular

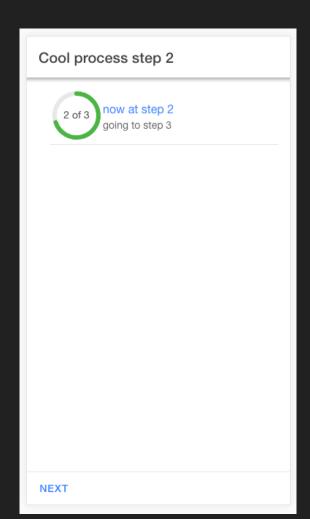
Thou Shall not duplicate code, for it is sin to the software gods

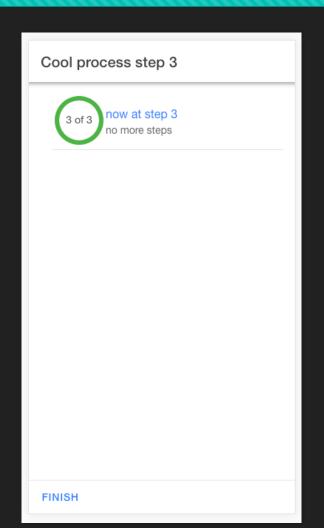
Why write reusable components?

- Apps generally repeat layouts
- Save yourself a ton of headache while debugging (if you need to make changes you make them in one place)
- Ability to extend functionality based on use cases or new requirements when app grows

Lets actually write one!







Rxjs Observables with Reusable Components

- What do Observables
 - Observables watch for state changes (to put it as simple as possible)

Scenario

Updating a user profile photo that lives inside a reusable component that is being called. From a side menu and profile screen

Possible solution ??? (any takers)

Doing is it with Rxjs observables

```
import { Observable } from 'rxjs';
    import { BehaviorSubject } from 'rxjs'
    import { DateSchedule,Dates } from './../interfaces/date-interface';
    import { HttpClient } from '@angular/common/http';
    import { Injectable } from '@angular/core';
    import { Storage } from '@ionic/storage';
    @Injectable()
    export class AppLocalProvider {
11
      profilePictureChanged: BehaviorSubject<boolean> = new BehaviorSubject<boolean>(false)
12
13
      constructor(public http: HttpClient, public storage: Storage) {}
14
15
17
      changeProfilePictureChangedState (hasChnaged: boolean){
18
        this.profilePictureChanged.next(hasChnaged)
19
20
      hasProfilePictureChanged(): Observable<boolean>{
21
22
23
        return this.profilePictureChanged.asObservable()
25
```

Cont'd

Cont'd

Changing the state

```
98
         const fileTransfer: FileTransferObject = this.transfer.create();
         fileTransfer.upload(uri, this._api.baseApiUrl + 'update-profile-photo', options)
99
          .then((data) => {
100
            // success
101
102
            let response: ImageUploadResponse = JSON.parse(data.response)
103
            this.fileUri = this._api.userAvatarBaseUrl + response.data.avatar
            this.user.avatar = response.data.avatar
104
            this.storage.set('user', this.user)
105
            loading.dismiss()
106
            this.imageUpdateSuccess = true
107
            this.local.changeProfilePictureChangedState(true)
108
```