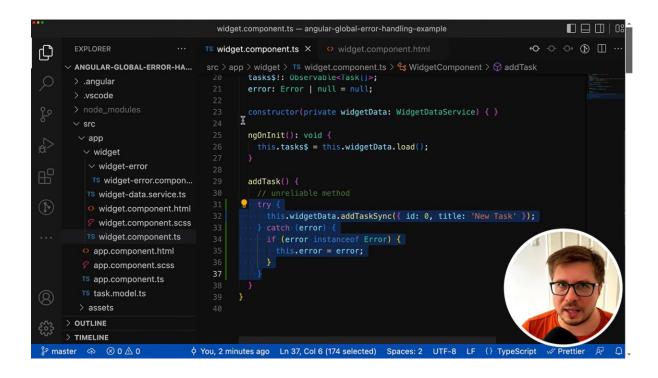
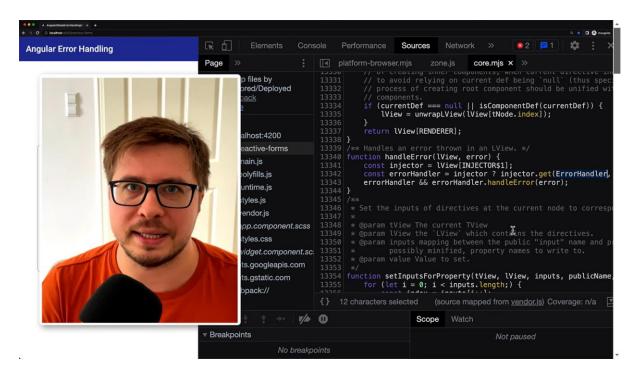
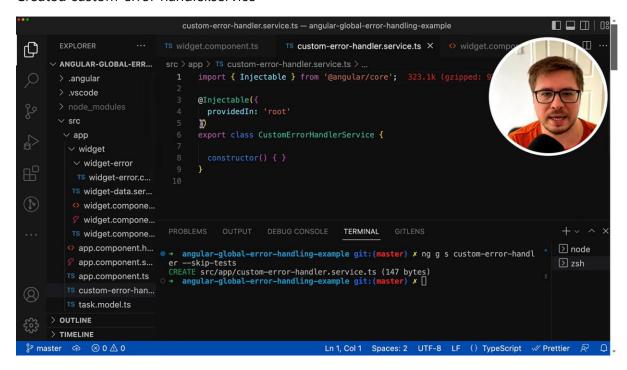
1. try-catch blocks





Created custom-error-handler.service



Import MatSnakbar

```
main.ts-angular-global-error-handling-example\\
                                                     TS custom-error-handler.service.ts ● TS main.ts ● ←O -O- ○→ ♠ □ ···

✓ ANGULAR-GLOBAL-ERR... src > TS main.ts > ...

                               import { enableProdMode, importProvidersFrom } from '@angular/core'; 323.3k (g)
        g app.component.s...
                                     import { bootstrapApplication } from '@angular/platform-browser'; 28.3k (gzippe
        TS app.component.ts
                                     import { AppComponent } from './app/app.component';
        TS custom-error-han...
        TS task.model.ts
                                     import { environment } from './environments/environment';
       > assets
                                     import { BrowserAnimationsModule } from '@angular/platform-browser/animations';
                                   import { HttpClientModule } from '@angular/common/http'; 209.7k (gzipped: 50.2l
import { MatSnackBarModule } from '@angular/material/snack-bar'; 330.8k (gzipped: 50.2l)
       > environments
       * favicon.ico
       index.html
                                     if (environment.production) {
       TS main.ts
                                       enableProdMode();
       TS polyfills.ts
       g styles.scss
                                     bootstrapApplication(AppComponent, {
      TS test.ts
                                        providers: [
      importProvidersFrom(
      .editorconfig
       .gitignore
                                            MatSnackBarModule
      {} angular.json
      K karma.conf.is
     > OUTLINE
                                     .catch(err => console.error(err));
     > TIMELINE
                                                                Ln 8, Col 10 Spaces: 2 UTF-8 LF {} TypeScript
```

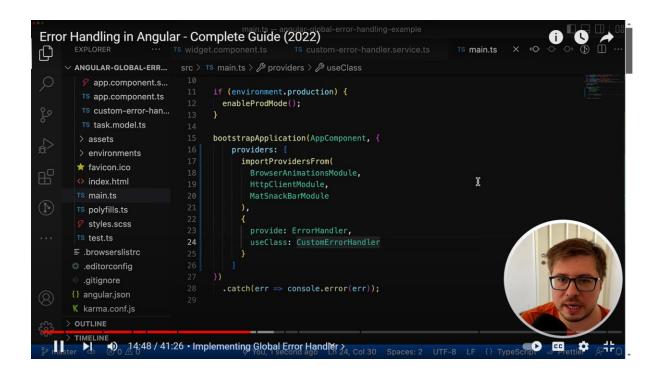
Error handler method

```
{\it custom-error-handler.service.ts--angular-global-error-handling-example}

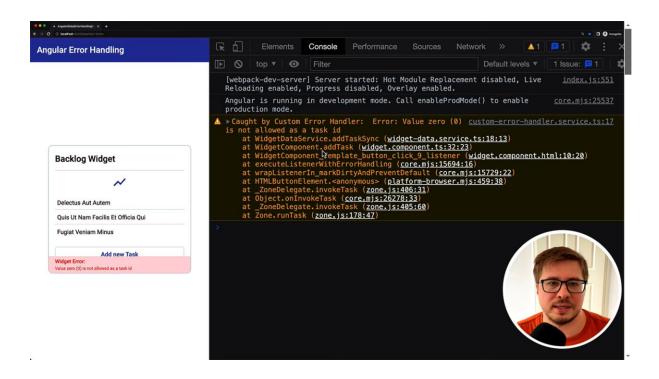
    widget.com 
    □ …

                                                           TS custom-error-handler.service.ts • TS main.ts
C)
      ∨ ANGULAR-GLOBAL-ERR... src > app > ™ custom-error-handler.service.ts > 😭 CustomErrorHandler > 😭 handleError
                                  import { ErrorHandler, Injectable } from '@angular/core'; 323.1k (gzipped: 92.7
import { MatSnackBar } from '@angular/material/snack-bar'; 330.8k (gzipped: 64.
          g app.component.s...
          TS app.component.ts
          TS custom-error-han...
                                  4 @Injectable()
         TS task.model.ts
         > assets
                                           constructor(private snackbar: MatSnackBar) { }
         > environments
         * favicon.ico
                                           handleError(error: unknown) {
        index.html
                                             this.snackbar.open(
        TS main.ts
        TS polyfills.ts
         g styles.scss
                                                 duration: 2000
        TS test.ts
        console.warn(`Caught by Custom Error Handler: `, error);
       .editorconfig
         gitignore .
       {} angular.json
       K karma.conf.js
      OUTLINE
      > TIMELINE
                                                                     Ln 17, Col 61 Spaces: 2 UTF-8 LF {} TypeScript \checkmark\!\!\!/ Prettier
$ master ♠ ⊗ 0 △ 0
```

Inject this on main.ts or model for global level use



Throw error for capturing global based



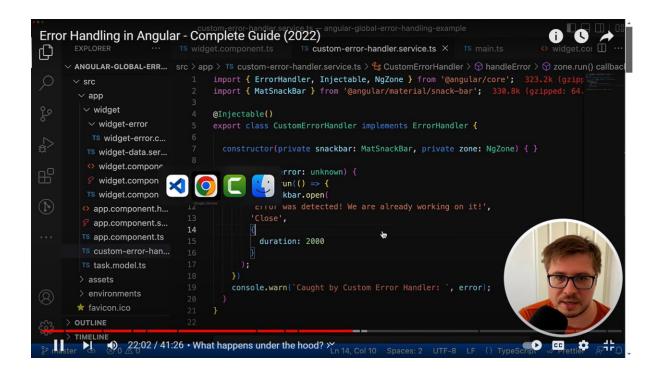
Try-catch does not handle this error but by global

```
Error Handling in Angular - Complete Guide (2022)
                             TS widget.component.ts • TS custom-error-handler.service.ts
     ∨ ANGULAR-GLOBAL-ERR...
                              src > app > widget > Ts widget.component.ts > 😭 WidgetComponent > 😚 addTask > 😚 setTimeout() callback
      ∨ src
                                       constructor(private widgetData: WidgetDataService) { }
        ∨ app
         ∨ widget
                                       ngOnInit(): void {

√ widget-error

                                         this.tasks$ = this.widgetData.load();
         TS widget-error.c...
         TS widget-data.ser...
                                       addTask() {
         widget.compone...
          widget.compone...
          TS widget.compone...
                                           setTimeout(() => {
         app.component.h...
                                            this.widgetData.addTaskSync({ id: 0, title: 'New Task' });
         g app.component.s...
        TS app.component.ts
        TS custom-error-han...
        > environments
        * favicon.ico
     > OUTLINE
      TIMELINE

17:38 / 41:26 • try/catch, Angular and async code $3, col 67 Spaces: 2 UTF-8 LF
```



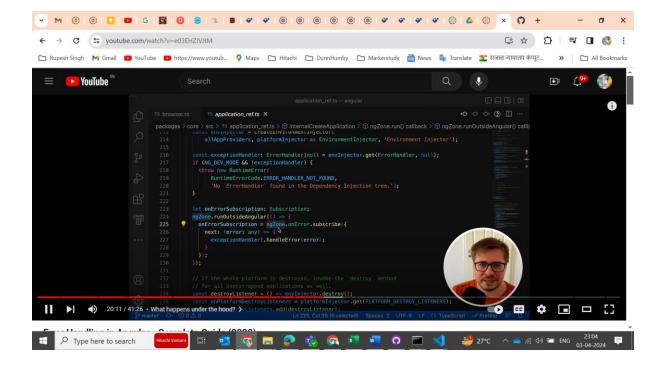
throw error // used for send global based error

Try-catch will not work with Async call

```
try {
    // this is an example
    setTimeout(() => {
        this.widgetData.addTaskSync({ id: 0, title: 'New Task' });
    });
}

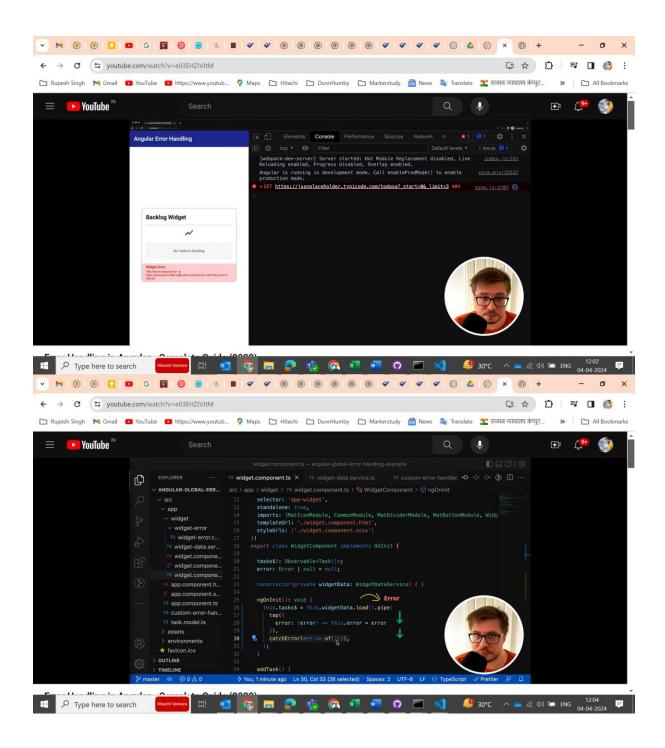
catch (error) {
    if (error instanceof Error) {
        this.error = error
        throw error // for global error
    }
}
```

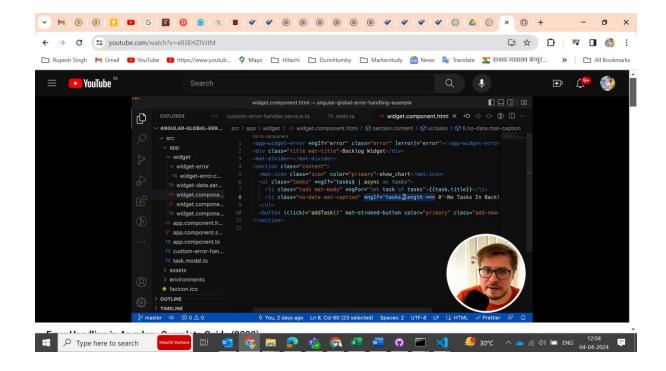
But why because ngzone find bellow screen



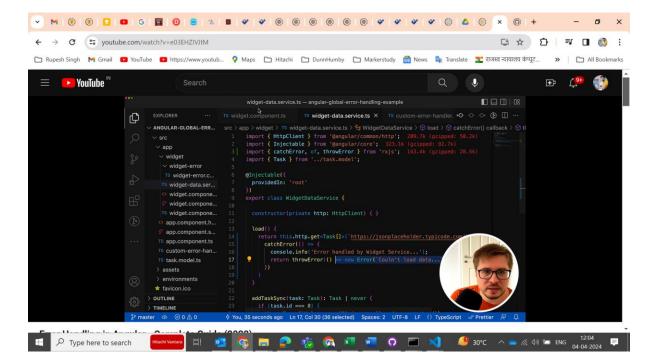
Pipe are used for error handling

```
load() {
    return
this.http.get<Task[]>(`https://jsonplaceholder.typicode.comdfdsf/todos?_start=
0&_limit=3`).pipe(
      catchError(() => {
        console.info('Error handled by widget service...')
        return throwError(() => new Error('Could not load Data'));
      })
   )
 }
This code will show for both error and message
 ngOnInit(): void {
   this.tasks$ = this.widgetData.load().pipe(
        error: (error: Error | null): any => this.error = error
      }),
      catchError(err => of([])),
   );
 }
```





Downstream



Global handling of HTTP errors

And retry http request

```
To create re
ng g interceptor global-http-error-handler --skip-tests

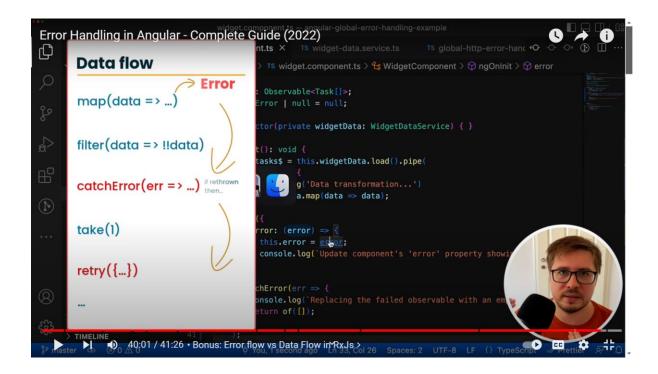
    step

 intercept(request: HttpRequest<unknown>, next: HttpHandler):
Observable<httpEvent<unknown>> {
    return next.handle(request).pipe(
      retry({
        count: 3,
        delay: (_, retryCont) => timer(retryCont * 1000), // 1sec ,2sec, 3sec
      }),
      catchError(err => {
        console.log('Error handled by HTTP interceptor...')
        return throwError(() => {
          console.log('Error rethrogh by Http Interceptor')
          return err
       })
     })
    );
 }
   2. step
import this on main.ts
{provide:HTTP_INTERCEPTORS,useClass:GlobalHttpErrorHandlerInterceptor,multi:tr
ue}
   3. component.ts
ngOnInit(): void {
    this.tasks$ = this.widgetData.load().pipe(
     tap({
        error: (error: Error | null): any => {
          this.error = error
          console.log('Update components error property showing ')
        }
```

```
}),
      catchError(err => {
        console.log('replacing ther failed obeserables with an emoty array')
       return of([])
     }),
   );
  }
   4. Step data.service.ts
 load() {
    return
this.http.get<Task[]>(`https://jsonplaceholder.typicode.com/todos?_start=0&_li
mit=3`).pipe(
     catchError(() => {
        console.info('Error handled by widget service...')
        return throwError(() => {
          console.log('Error rethrogh by widget service')
          return new Error('Could not load Data')
       });
     })
   )
  }
```

How data is flow if everything is fine

If error came how data flow



Map() operator are ignored

How pipe error are working let see

```
widget. component. ts -- angular-global-error-handling-example \\
                     ✓ ANGULAR-GLOBAL-ERR... src > app > widget > TS widget.component.ts > % WidgetComponent > % ngOnInit > % error
                                  selector: 'app-widget',
                                   standalone: true,
                                   imports: [MatIconModule, CommonModule, MatDividerModule, MatButtonModule, Widg

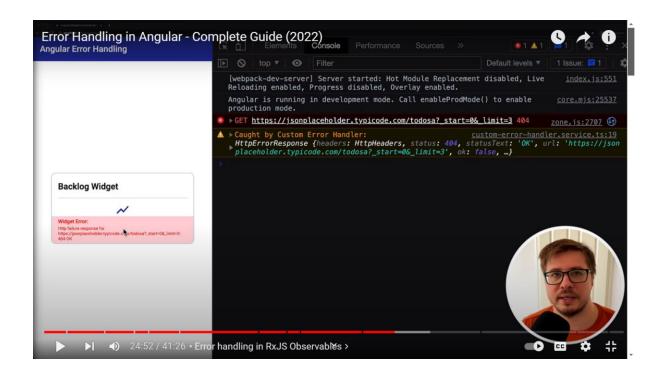
√ widget

                                  templateUrl: './widget.component.html',
styleUrls: ['./widget.component.scss']

√ widget-error

         TS widget-error.c...
         TS widget-data.ser...
         widget.compone
          widget.compon
        TS widget.compon
                                    constructor(private widgetData: WidgetDataService) { }
        app.component.h...
        app.component.s...
                                    ngOnInit(): void {
       TS app.component.ts
                                      this.tasks$ = this.widgetData.load().pipe(
       TS custom-error-han...
                                       tap({
       TS task.model.ts
                                         error: (error) => this.error = error
       > assets
       > environments
       * favicon.ico
    > OUTLINE
    > TIMELINE
\phi You, now Ln 28, Col 45 Spaces: 2 UTF-8 LF {} TypeScript
```

By using tap can trace error from service like this using async pipe



Catch and replace strategy in error

From service

```
Error Handling in Angular - Complete Guide (2022)
                                                               Ф

∨ ANGULAR-GLOBAL-ERR... src > app > widget > TS widget-data.service.ts > ☆ WidgetDataService

                                    import { HttpClient } from '@angular/common/http'; 209.7k (gzipped: 50.2k)
import { Injectable } from '@angular/core'; 323.1k (gzipped: 92.7k)
import { catchError, of } from 'rxjs'; 143.4k (gzipped: 28.5k)
import { Task } from '../task.model';
        V STC
         ∨ app

√ widget

√ widget-error

            TS widget-error.c...
                                          @Injectable({
                                            providedIn: 'root'
           TS widget-data.ser...
           widget.compone...
            widget.compone... 10
           TS widget.compone...
                                             constructor(private http: HttpClient) { }
          o app.component.h...
                                             load() {
          g app.component.s...
                                              return this.http.get<Task[]>(`https://jsonplaceholder.typicode.
          TS app.component.ts
                                                  catchError(err => of([]))
          TS custom-error-han...
          TS task.model.ts
          > assets
                                             addTaskSync(task: Task): Task | never {
                                               if (task.id === 0) {
         ★ favicon.ico
         TIMELINE 23 return task;

25:59 / 41:26 • Error handling in RxJS Observables > 10, Col 1 Spaces: 2
   Ш
```

https://www.youtube.com/watch?v=e03EHZIVJtM
Error Handling in Obserables
2. error handling middleware
3. global error handling,
4. error handling within components.