# 國立臺灣大學
# 114 學年度第 1 學期期中教學意見調查統計表
## * * * 修課學生的文字意見 * * *

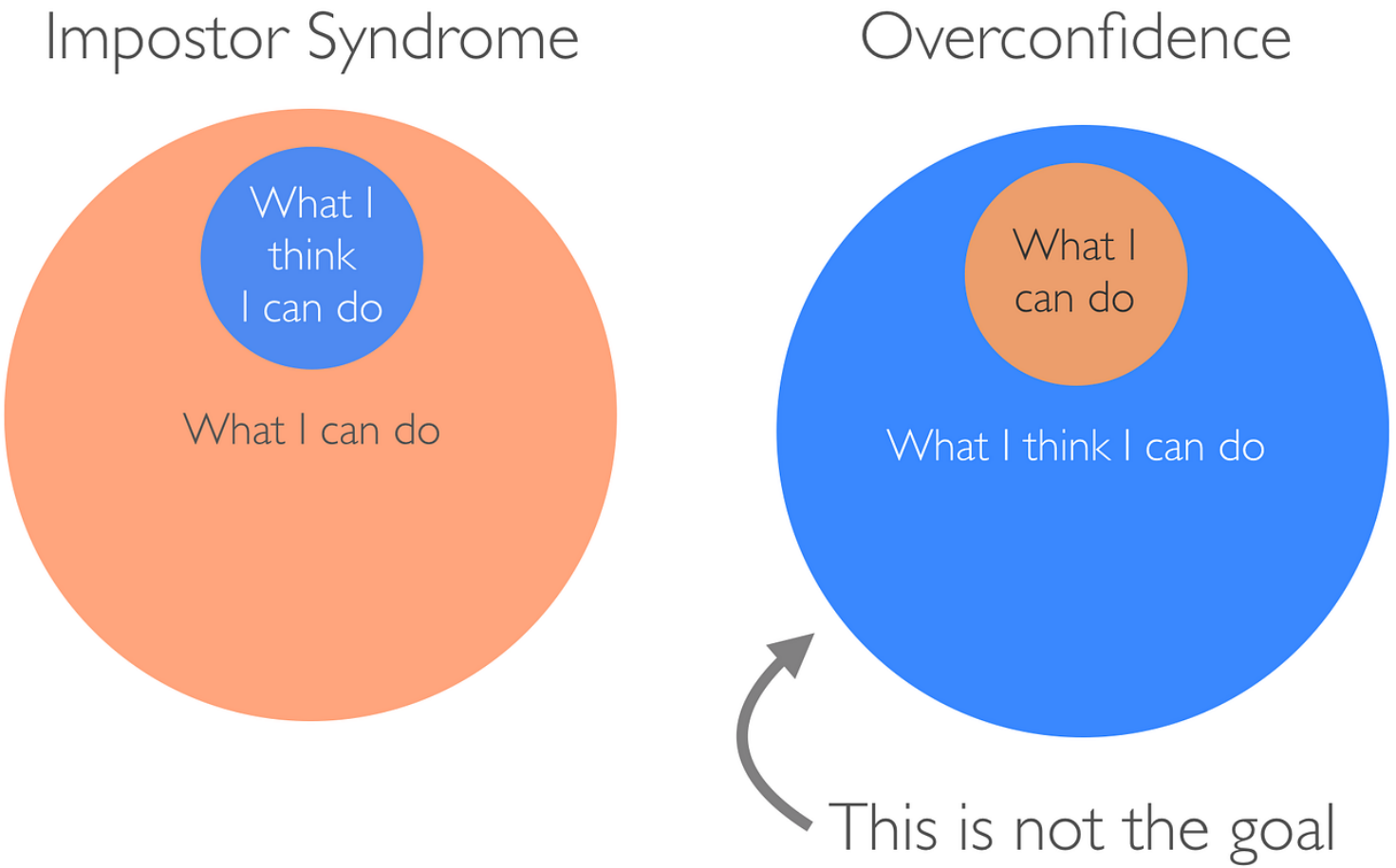
課　　名：　心理與神經資訊學　　授課教師：　黃從仁
課程識別碼：227 U9340　　課　　號：　Psy5261
班　　次：

| 序 | 你認為這門課教師的教學與內容有哪些優點或待改善之處？ | 填答時間 |
|---|---|---|
| 1 | 作業要求可以更明確一些 | 2025/10/27 |
| 2 | 大概是我在心理系上過最有趣、最跳脫思維的課程，大推這門課。完全能感受得到老師安排課程內容的用心，課程的安排大多實作導向，但也充斥著理論基礎。雖然是第一次大量寫程式，但感覺對未來進入業界也非常實用。 非常喜歡從仁老師能在課程中討論跳脫心理系傳統的思維及角度看待資料處理及分析（系上清流）。希望老師未來能在心理系開更多的課程。希望能講授更多機器學習及資料分析的部分。 最後，不知道老師是否能用 slido 等匿名的機制取代現在 ticket syste，在作業上給出更明確的指示及範例？ | 2025/10/14 |

| 序 | 你認為這門課教學助理(TA)的教學協助對你的學習有哪些幫助或希望加以改善之處? | 填答時間 |
|---|---|---|
| 1 | 無，辛苦助教了。 | 2025/10/14 |

# Imposter Syndrome

## Better than overconfidence



# Psychoinformatics & Neuroinformatics

## Week 10-3

## HW10 Review

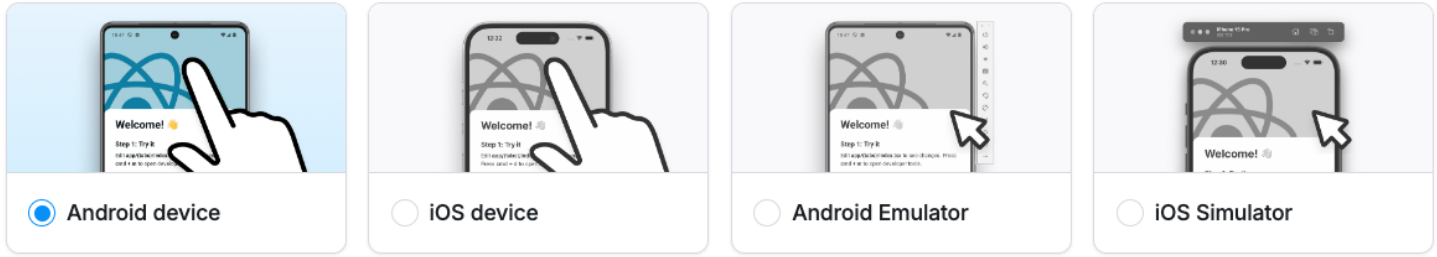
by Tsung-Ren (Tren) Huang 黃從仁

# Expo Go vs. Development Build

## Try Development Build in the future

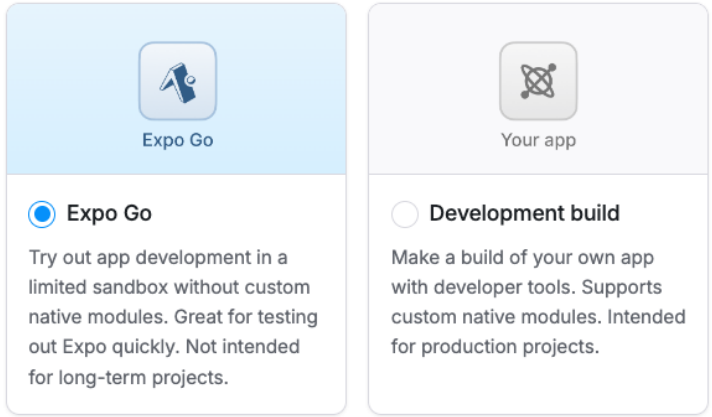
### Where would you like to develop?

We recommend using a real device to develop, since you'll get to see exactly what your users will see.




### How would you like to develop?

Expo Go is a sandbox for trying out Expo quickly. A development build is a build of your own app that includes Expo's developer tools.



# Outstanding Work of the Week

Check out Ojeda(歐瑩忻)’s work

# Psychoinformatics & Neuroinformatics

## Week 11-1

## Multimodal Data

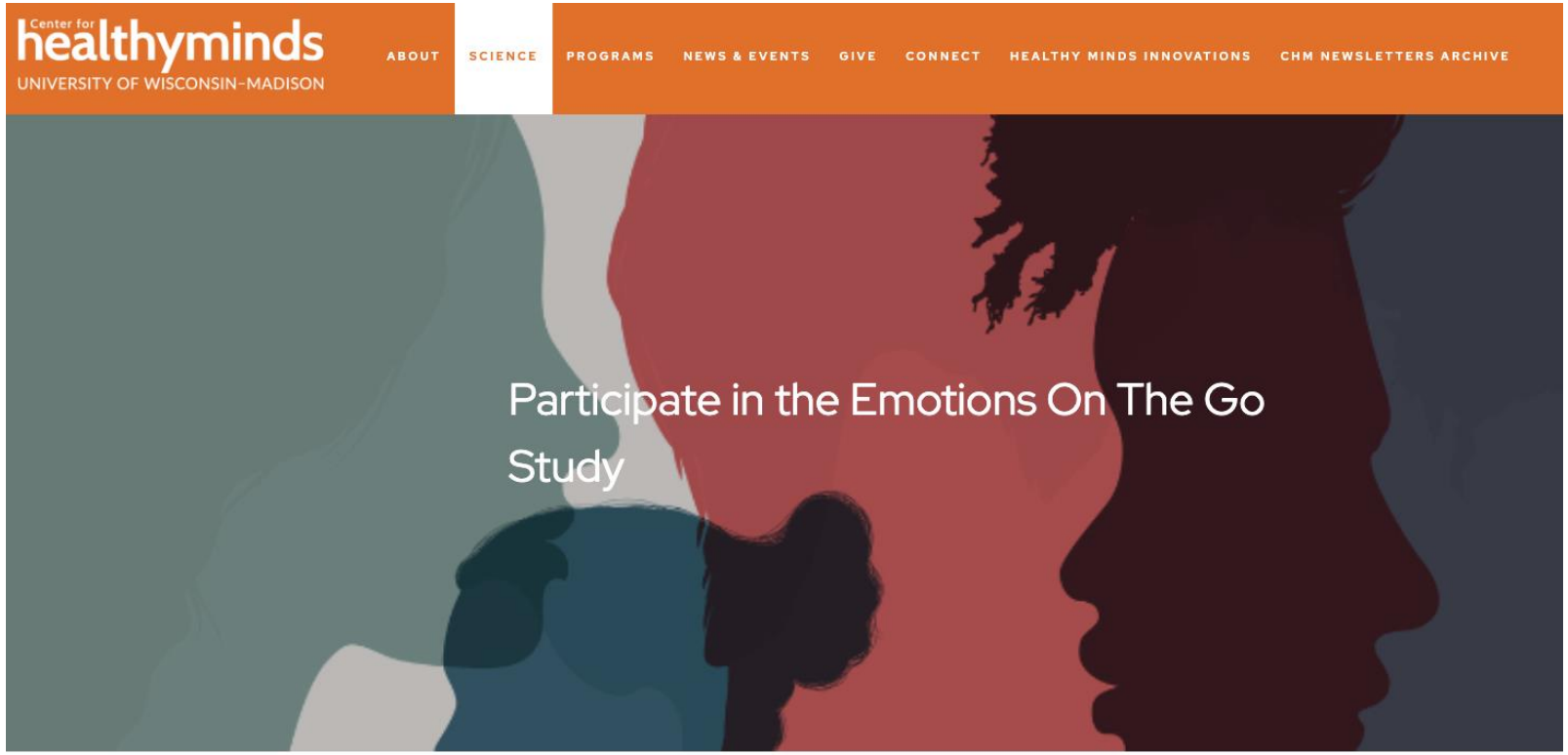
by Tsung-Ren (Tren) Huang 黃從仁

# Where are we?

| 週次 | 日期 | 單元主題 |
|---|---|---|
| 第1週 | 9/5 | [課程簡介] AI/LLM + 開發環境/工具介紹 |
| 第2週 | 9/12 | [Neurosynth-資料搜集] 爬蟲與資料ETL |
| 第3週 | 9/19 | [Neurosynth-資料分析] 統合分析(Meta-analysis) & 機器學習(Machine Learning)導論 |
| 第4週 | 9/26 | [Neurosynth-資料分析] 機器學習模型的評估與調教(scikit-learn) |
| 第5週 | 10/3 | [Neurosynth-後端服務] 伺服程式+資料庫(SQL) |
| 第6週 | 10/10 | 國慶日(停課): 網站伺服器部署(課程參考資料) |
| 第7週 | 10/17 | [Neurosynth-前端介面] HTML+CSS+JavaScript |
| 第8週 | 10/24 | 光復節連假(停課): 進階JavaScript: ES6+(課程參考資料) |
| 第9週 | 10/31 | [Neurosynth-前端介面] 網頁框架(React) |
| 第10週 | 11/7 | [EmoGo-前端介面] 手機應用程式框架(React Native) |
| 第11週 | 11/14 | [EmoGo-資料搜集] 多模態資料的搜集(問卷、錄影、感測器) |
| 第12週 | 11/21 | 全校運動會(停課): 手機應用程式部署(課程參考資料) |
| 第13週 | 11/28 | [EmoGo-後端服務] API伺服器(FastAPI) + 資料庫(NoSQL) |
| 第14週 | 12/5 | [EmoGo-資料分析] 深度學習導論+預訓練深度學習模型(靜態與動態影像分析) |
| 第15週 | 12/12 | [EmoGo-資料分析] 預訓練深度學習模型(語音與文字資料分析)+課程總結 |
| 第16週 | 12/19 | 期末考週(停課) |

# Project Goal

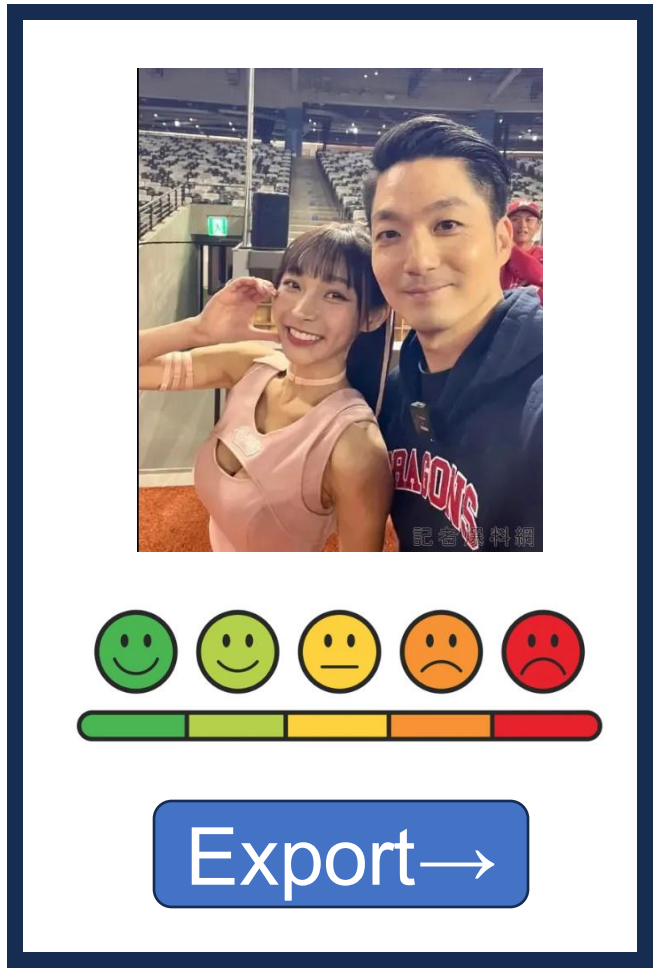
## Replicate or go beyond EmoGo: More Xs or Better Ys




We are recruiting participants for the "Emotions on the Go" smartphone study. The goal of this 2-week study is to understand how people feel as they go about their daily lives.

# Sprint Goal

Make an experience-sampling app w/ *local storage*



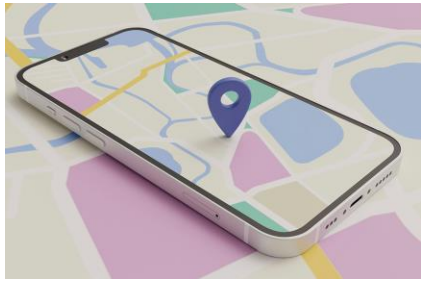
# Sprint Backlog

Collect the following data 3 times a day

A simple sentiment questionnaire
(*structured* active/foreground data)

A 1-second vlog recorder
(*unstructured* active/foreground data)

GPS (lat, lng) coordinates
(*structured* passive/background data)



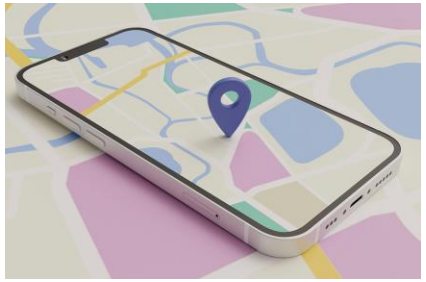
# Packages Needed

*expo-notifications* for triggering your app

*expo-sqlite* for storing structured data

*expo-camera* for recording vlogs
(*expo-file-system* or *expo-media-library*
for storage; *expo-sharing* for exporting)

*expo-location* for getting GPS coordinates



# Submission Checklist

~~Use "*npx expo publish*" to publish your app~~

Your GitHub repo should contain:

Your app URI @ *https://expo.dev/...* in README.md

Your app's RN source code + a H-AI interaction history

A "*data*" folder storing exported data
(3+ records for each data type w/ $T_{last}$-$T_{1st}$ > 12 hours)

# Psychoinformatics & Neuroinformatics

## Week 11-2

Sprint

by Tsung-Ren (Tren) Huang 黃從仁

# Navigation/Routing (1/2)

File-based Expo Router eliminates manual routing

## Expo Router

GitHub Changelog npm Ask AI

A file-based routing library for React Native and web applications.

Android iOS tvOS @ Web

Bundled version: ~6.0.14 Copy page

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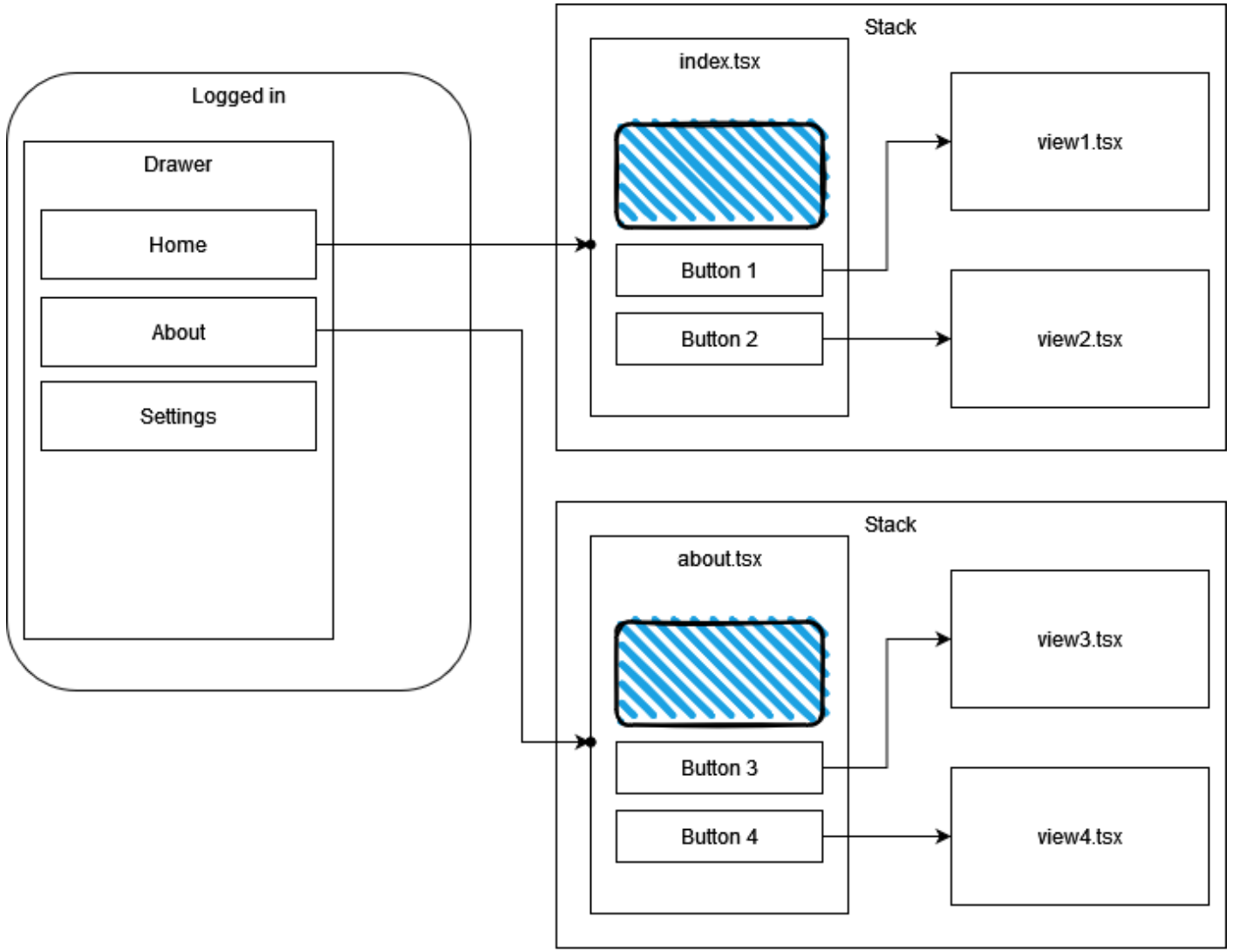
`expo-router` is a routing library for React Native and web apps. It enables navigation management using a file-based routing system and provides native navigation components and is built on top of React Navigation.

**Expo Router guides**

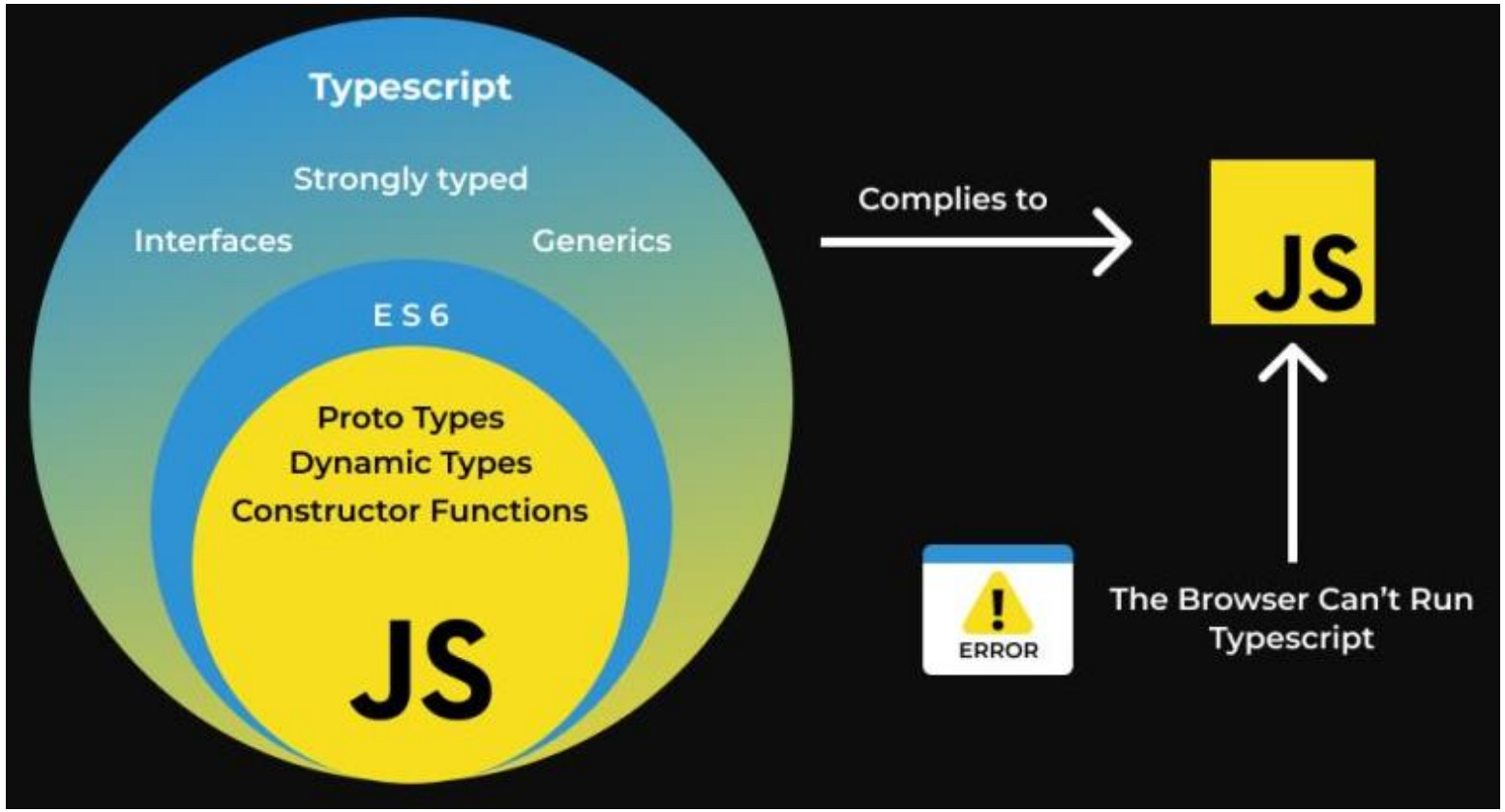
Learn about Expo Router basics, navigation patterns, core concepts, and more.

# Navigation/Routing (2/2)



# tsx vs. js

## TypeScript (XML) = A superset of JS




JS

### Key Differences

- JavaScript is a dynamically typed language

### Advantages

- Easier to get started
- Flexible
- Widely supported

### Disadvantages

- More prone to runtime errors
- Lack of type safety

TS

### Key Differences

- TypeScript is a statically typed superset of JavaScript

### Advantages

- Type safety
- Improved tooling
- Easier maintenance

### Disadvantages

- Slower development
  Additional learning curve

# Game Over