TypeScript

TypeScript

TypeScript with Experience Builder

- Built-in
- Open the "client/" folder!

Types by Inference

```
let helloWorld = "Hello World";
// ^ = let helloWorld: string
```

Defining Types

```
interface User {
  name: string;
  id: number;
}

const user: User = {
  name: "Hayes",
  id: 0,
};
```

```
const user = {
  name: "Hayes",
  id: 0,
};
```

Demo
TypeScript in VS Code

Combining Types

Unions and Generics

Unions

```
type MyBool = true | false;


type WindowStates = "open" | "closed" | "minimized";
type LockStates = "locked" | "unlocked";
type OddNumbersUnderTen = 1 | 3 | 5 | 7 | 9;


function getLength(obj: string | string[]) {
  return obj.length;
}
```

Generics

```
type StringArray = Array<string>;
type NumberArray = Array<number>;
type ObjectWithNameArray = Array<{ name: string }>;
```

Activity

10 Minutes

- Work with types in your development environment.

- Work with types in https://www.typescriptlang.org/play

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