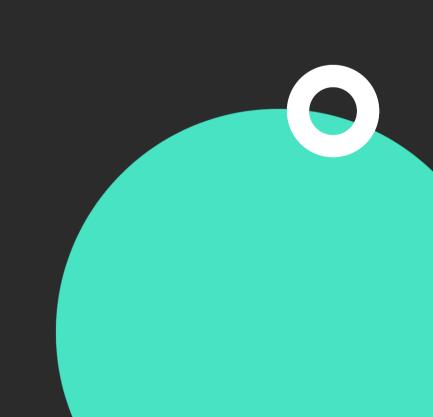# Interacting with Users

Simone Alessandria

in linkedin.com/in/simone-alessandria

DropdownButton

- Create instance

- Set items

- Set value

- Respond to user input

```
DropdownButton<String>(

  items: [List of DropdownMenuItem widgets]

  value: [A String value],

  onChanged: () {
    //actions
  }
)
```

Improving the Quality of Your App

- Do not trust users' input

- Test your app

Unexpected values

Returns NaN (Not a Number)

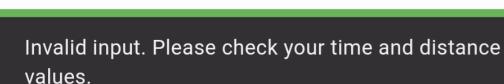Returns Infinity

```
double nan = 0 / 0;



double inf = 42 / 0;
```

Speed Calculator

Distance

Time in minutes

Metric ▾

Calculate Speed

Invalid input. Please check your time and distance values.

SnackBar

A simple message that briefly appears at the bottom of the screen

Course Summary (1/2)

- Stateful Widgets
  - Handle input
  - Manage State
- Stateless vs Stateful
- setState()
- TextEditingController
  - Link to TextField
- Perform a calculation
- Life cycle events:
  - initState()
  - build()
  - dispose()

Course Summary (2/2)

- Widgets:
  - Scaffold, AppBar, TextField, DropdownButton, ElevatedButton
  - TextStyle

- Dart:
  - Null Coalescing operator
  - Ternary operator
  - String interpolation
  - tryParse()