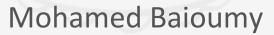
3.1.2

What do we need to navigate?



What do we need to navigate?

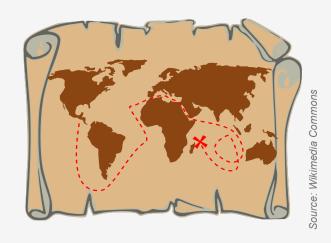
Navigation is not just for robots!

What do we need to navigate?

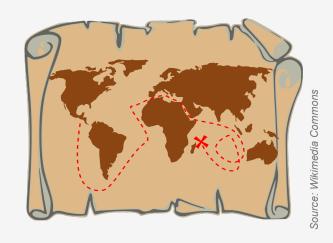
- Navigation is not just for robots!
- Assume we're pirates, and we're looking for a treasure.
- We have a crew, a ship, and a parrot.



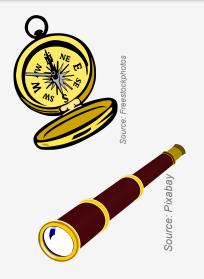
Mohamed as a pirate



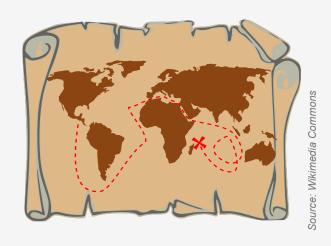
A (treasure) map



A (treasure) map



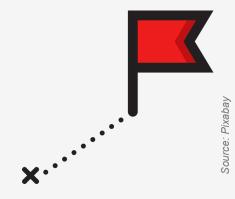
Where we are



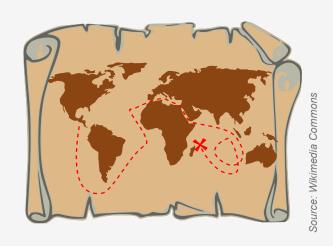
A (treasure) map



Where we are



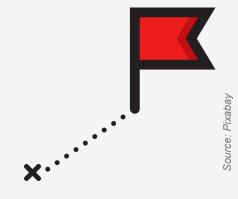
A route to take



A (treasure) map



Where we are



A route to take



Avoid distractions and obstacles

Pirates

Treasure map

Where we are

A route

Avoid obstacles

Pirates

Robots

Treasure map

Map of the environment

Where we are

Localization

A route

Path planning

Avoid other ships

Obstacle avoidance