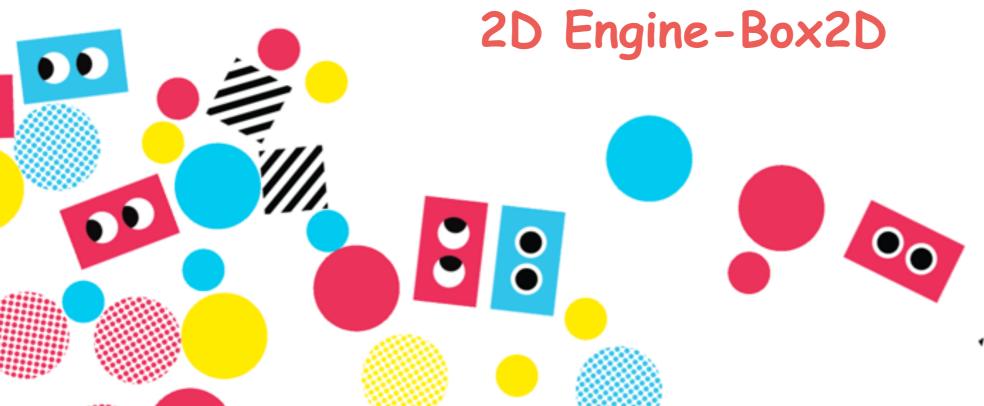


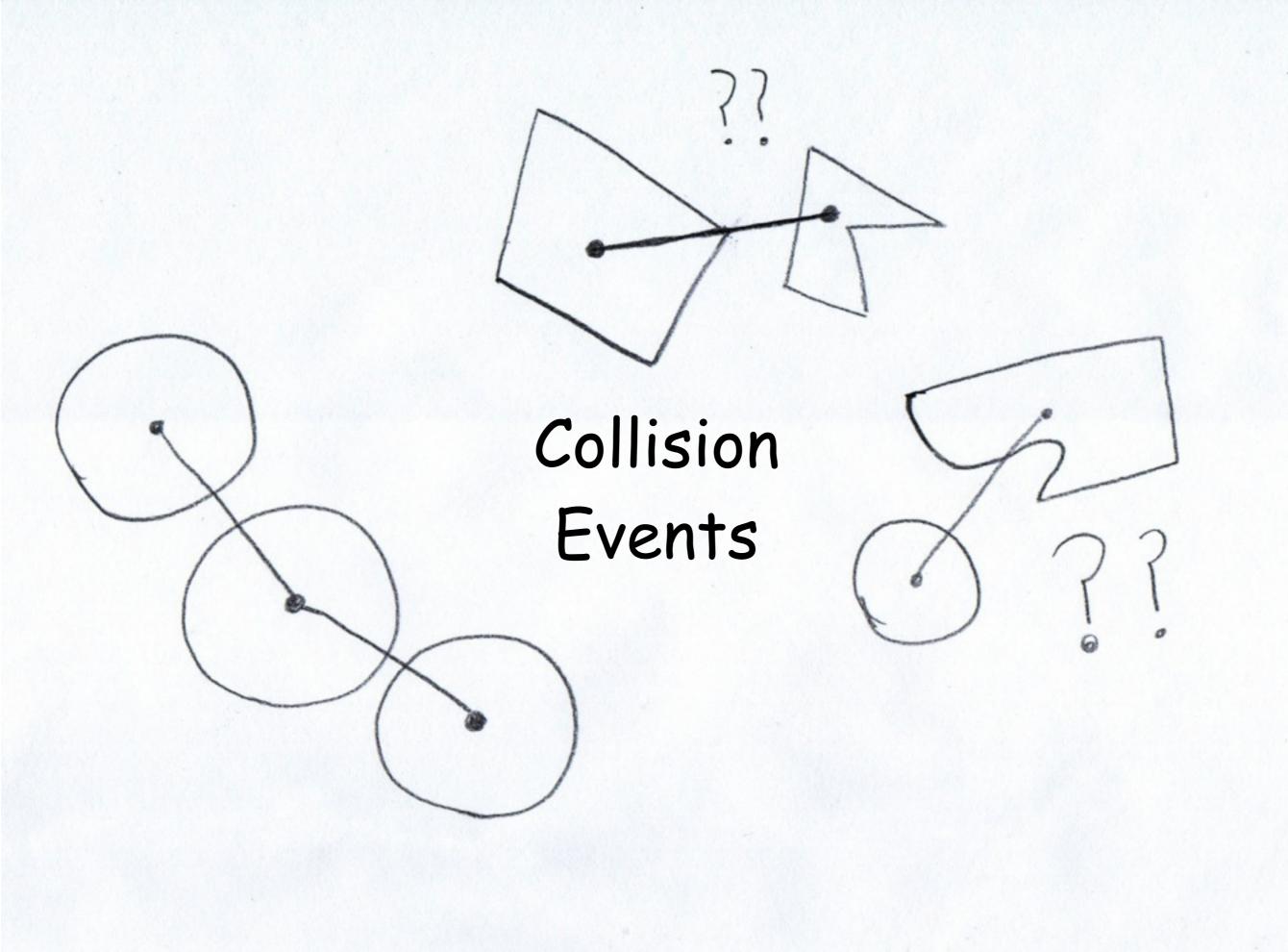
openFrameworks Workshop





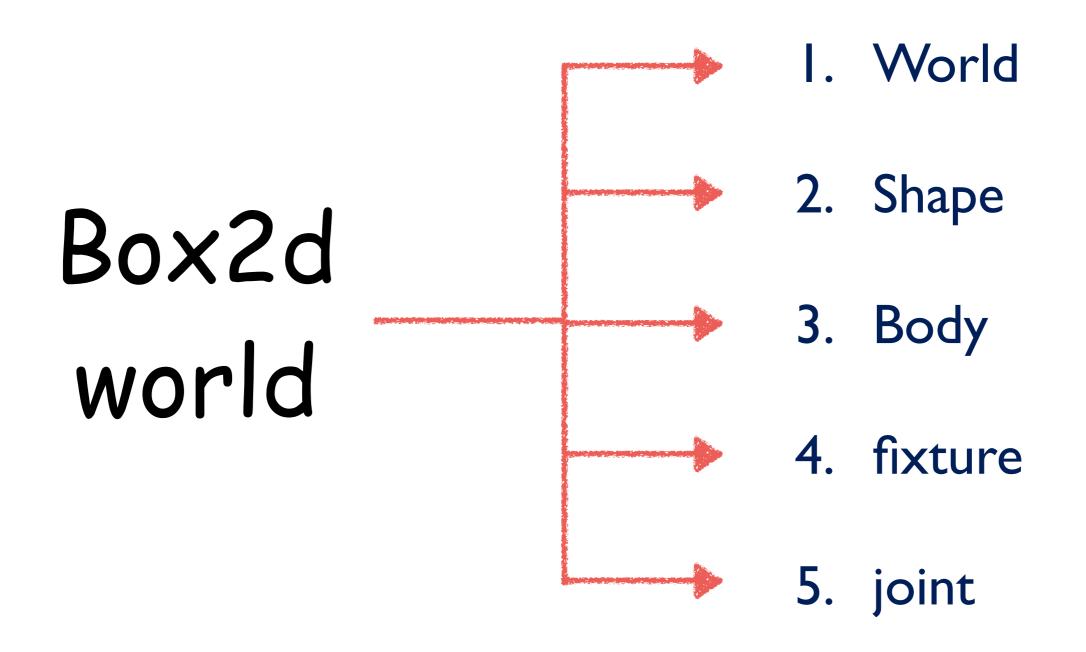
By: Peng Cheng

Why do you want to use Box2D?





What makes up Box2d world?



World

- Gravity
- createGround
- createBounds
- registerGrabbing
- find fixtures in a given region

The world is like this ship



Body

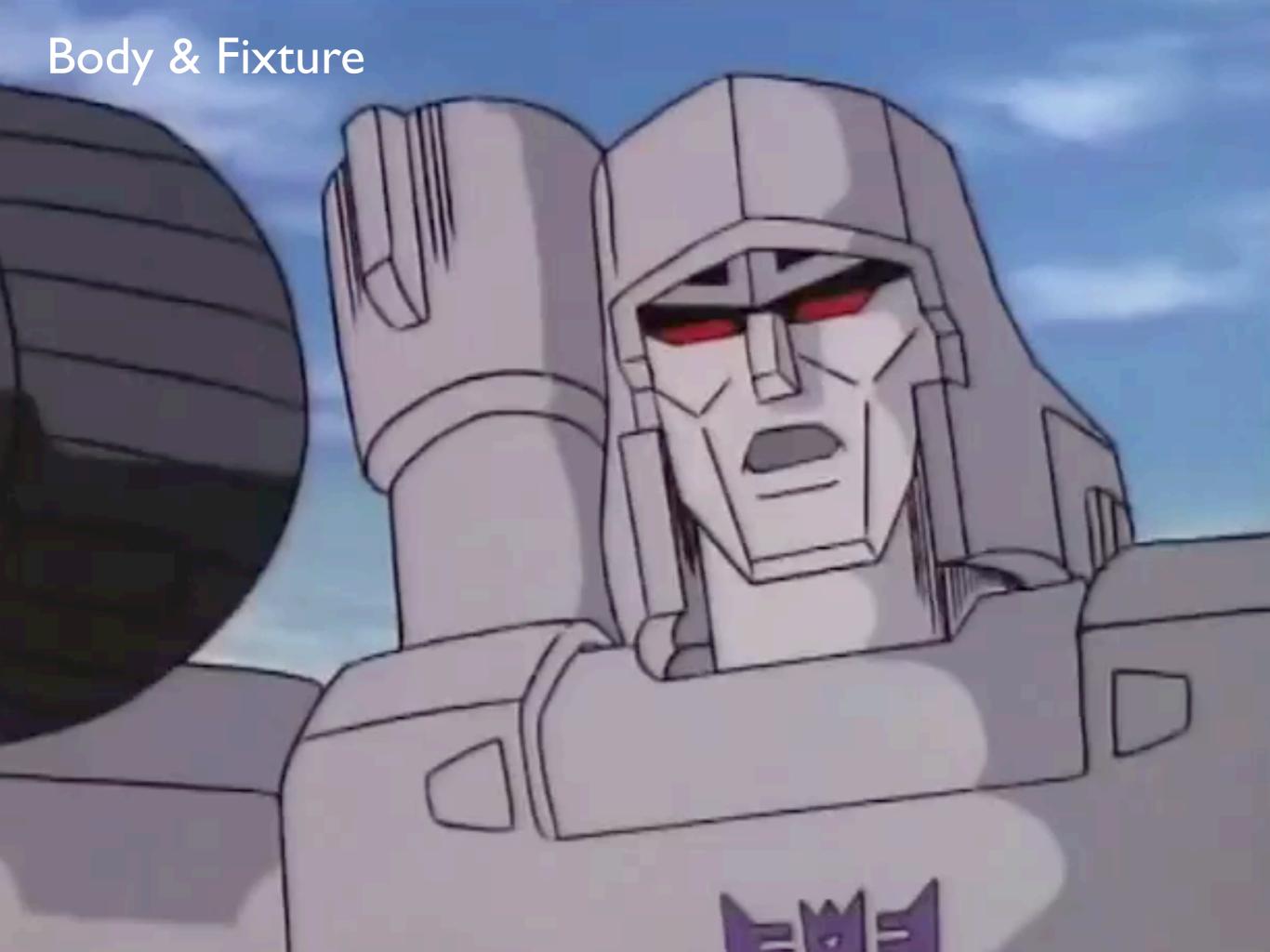
You can think of a body as the properties of an object that you cannot see (draw) or touch (collide with).

- mass
- velocity
- location
- angle
- rotational inertia

Fixture

Fixtures are used to describe the size, shape, and material properties of an object in the physics scene.

- size,
- restitution,
- friction,
- density



Today's goals

- Initialize Box2d world
- 2. Generate different Box2D circles, rectangle, triangles and etc.
- 3. Use Box2d edge to make land
- 4. Understand Box2d Native code(optional)
- 5. Create a simple game



Reference

- Box2d C++ Tutorial: http://www.iforce2d.net/b2dtut/
- The Natural of Code by Daniel Shiffman <u>http://natureofcode.com/book/chapter-5-</u> <u>physics-libraries/#chapter05_section5</u>