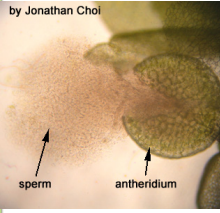


Where do they live?
On Land

- 1st plants to make it to land
- Least derived land plant (how can you tell?)
- Live in **moist areas**
 - Cannot be far from water
 - They need water for their reproduction (*still tied to water for their reproduction*)
 - Sperm swim from the male to the female


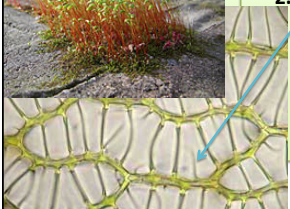
by Jonathan Choi



sperm antheridium

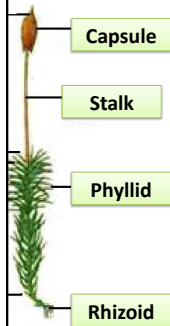
Non-Vascular

- What does that mean?
 - Cannot move water around their bodies using tubes
- How do they get away with this?
 1. Shape: ↑ SA = ↑ Osmosis
 1. Short (close to ground)
 2. Fat
 2. **Hyaline Cells** – Dead cells to hold water
 1. They work like buckets to hold water when its dry
 2. If they run out of water they go dormant (to sleep) for part of the year.

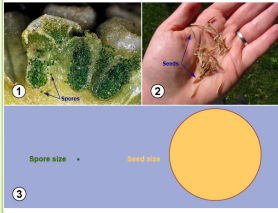
Why do the parts have different names?

- **Why can't we just call them roots, leaves, stem and seed pod?**
 - Because they don't have vascular tissue
 - Those common names we all know for plant parts are only used for plants that can transport water
 - Also, we cant call it a seed pod because mosses use spores to reproduce



How do Mosses Reproduce?

- They use spores
- Spores are different than seeds:
 1. Smaller
 2. Don't have as much resources for baby plant
 3. Don't need to be fertilized to grow into a plant



How do Mosses Reproduce?

- Spores grow into plants that are male or female
- Males release sperm that have to swim to the female plant
- NEEDS TO BE IN A WET ENVIRONMENT FOR THIS

Moss life cycles are crazy complex!

