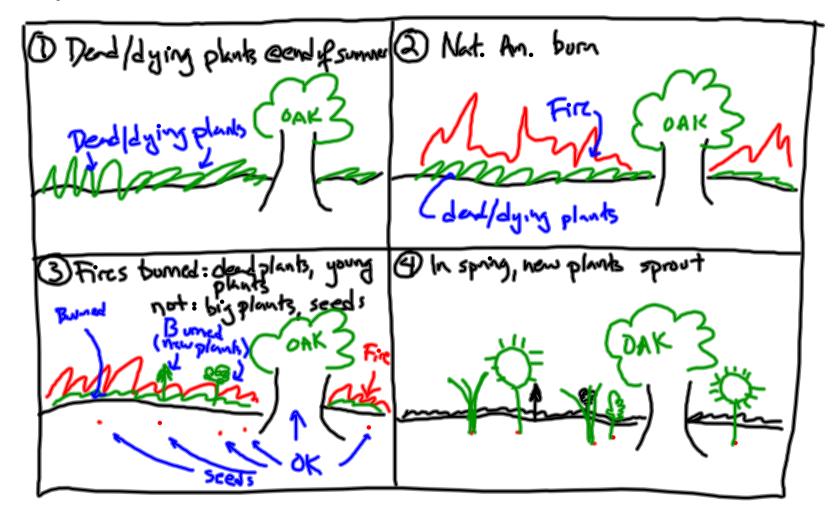
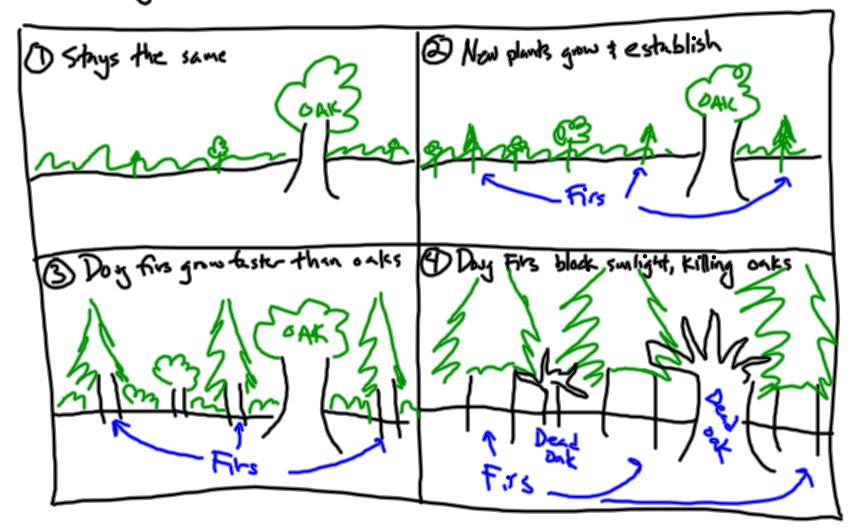
How Fire Maintains Oak Savanna



How Doug Firs Take over when there's no fire



WHAT IF:

- · Initial conditions were different?
- · Laws of physics & nature were different?
- · People behaved differently?

 or organisms

 in general

- (1) Native Americans burned annually...
 Promoted growth of useful plants

 - · Hunting was easier

WHAT IF...

- . The native Americans didn't set fres?
- · The European Americans had been unable to dominate the N.A.'s?
- What if the fires had been hotter?

- (2) 1. Stays the same
 - 2. New Shrubs of trees establish
 - 3 Doughos graw fister
 - 4. Day trus block sunlight; oaks die

WHAT (F:

- . The oak trees didn't require sunlight?
- · Fully grown oaks <u>weren't</u> fire resistant?
- · Douglas has grew more slowly
- · Massire floods occurred around the time of the burning?
- Doug the couldn't grow here?

- 1. Dend/dying plants @ end of sommer
 - 2. Native Americans burn
 - 3. Fires born dead plants, youngplants, but NOT old plants (trees) and seeds
 - 4. In spring, seeds sprout & process restarts

WHAT IF:

- · Small shrubs were fire-resistant?

- · It rained in the summer learly full? · Seeds were into berant of RPP? · New plants couldn't sproof in ashes?

(5) In 1850: Ash swale · Oregon ash trees · Horsetil · Trailing BB · Pacific Dogwood · Low pasnip Now: Famland Regisences Ash swale

Now 1850 | leave it alone



- · New plants woold not come from seeds
- · Maybe some plants don't need Seeds — those plants would dominate...