



Northwest Ferns



Chuckanut Drive Fern Fossil 50 mya



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Parts of a Fern

Frond

(twice divided
leaflet or twice
pinnately compound,)

Fiddleheads

(uncurling fronds)

Frond (Leaf)

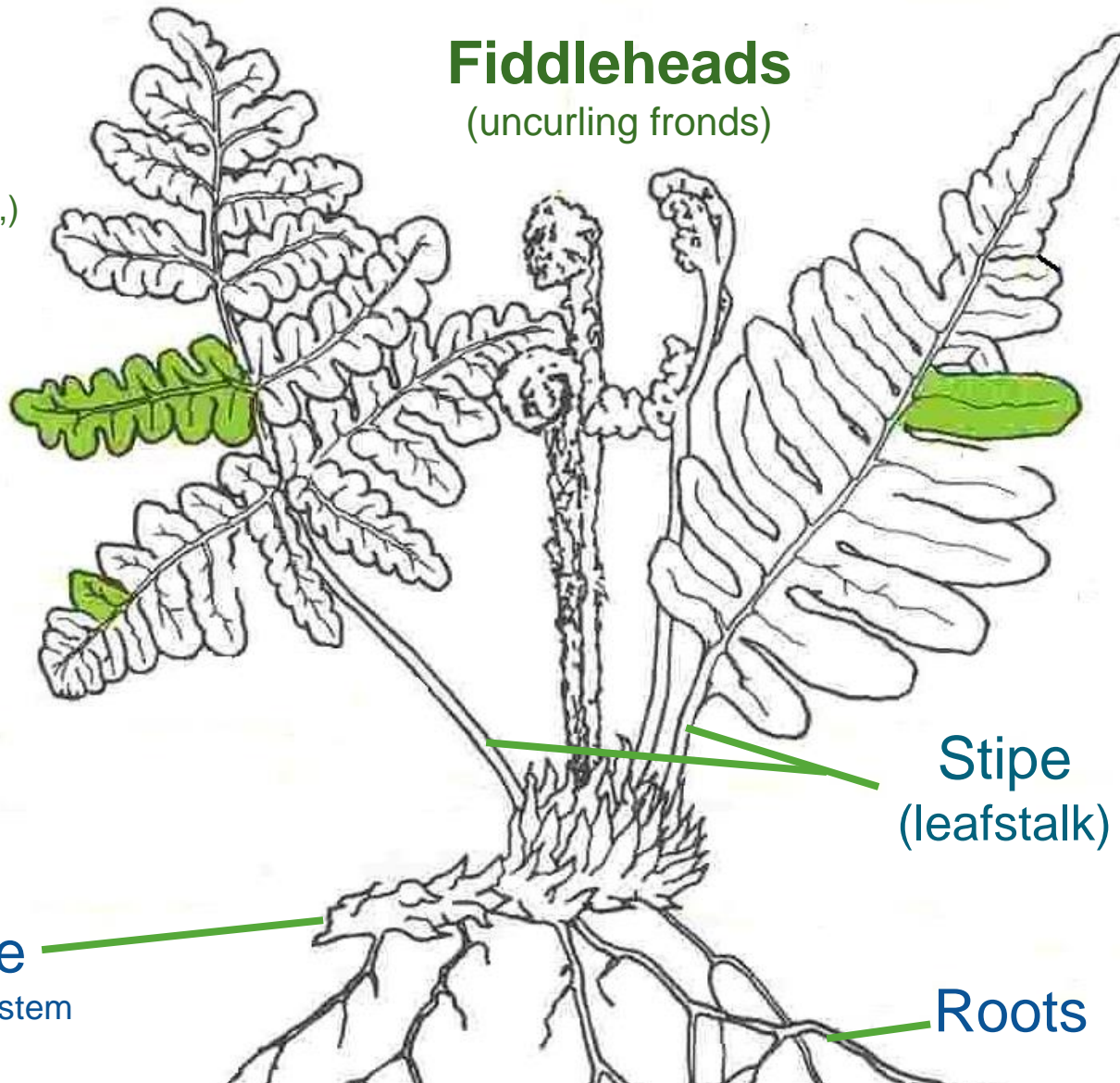
(once divided
or pinnate)

Stipe
(leafstalk)

Rhizome

underground stem

Roots

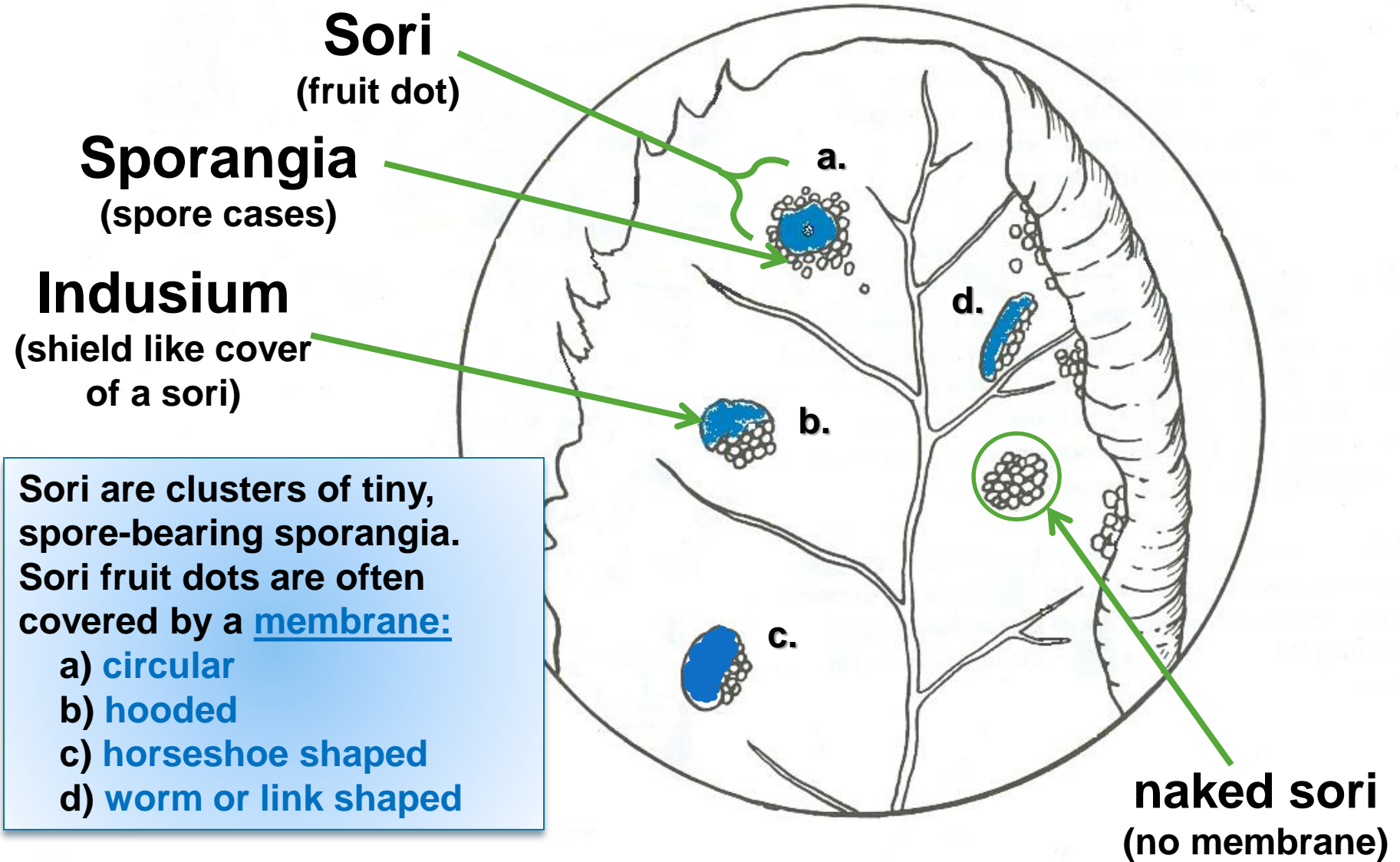


Parts of a Fern – Whitney & Sandelin Field Guide to the Cascades & Olympics



Figure 4. *Anatomy of a fern*

Details found on back of fertile leaflets



Underside of leaflet with many
spore-producing sporangia.



Sword Fern

- Height: 3 - 4 feet
- Individual leaflets of the fronds resemble a sword, giving this fern its name.
- Evergreen . Once divided.



A close-up photograph of a dense cluster of sword fern fronds. The fronds are bright green, feathery, and arching, with many fine, linear leaflets. They are set against a dark, out-of-focus background, which makes the vibrant green of the ferns stand out. The lighting is bright, highlighting the texture of the leaves.

Sword Fern-
Polystichum munitum



Sword Fern

Licorice Fern

- 1 Foot long, a sparse fern; doesn't grow in clumps
- Single leaflet grows out from rootstock in the thick moss on tree trunks or rocks
- Roots taste like licorice
- Evergreen. Once divided.



A large, moss-covered tree trunk in a forest, with Licorice Ferns growing on it. The tree trunk is thick and gnarled, covered in a thick layer of green moss. Several large, feathery green ferns are growing from the moss on the trunk. The background shows a dense forest with many thin tree trunks and some green foliage. The ground is covered in brown, fallen leaves.

Licorice Fern-

Polypodium glycyrrhiza

A close-up photograph of a tree trunk covered in thick, green moss. Several bright green, feathery fern fronds are growing from the mossy surface. The background is blurred, showing more greenery.

Licorice Fern

Deer Fern

- Height: **2 FEET** and has two distinctive fronds: **fertile** and **non-fertile**. **Evergreen. Once divided.**
- The fertile (spore-bearing) fronds are long and **narrow**, standing erect with dark purple-black stipes. The non-spore-bearing fronds are **thicker** and grow in shorter clusters around them.
- Fronds taper toward each end. They favor deep, wet forests.
- Deer like to eat these ferns.





Deer Fern

Blechnum spicant



Deer Fern

Lady Fern

- Height: **2 - 3** feet
- Large, graceful, light yellow-green
Widest at center; tapers at top/bottom..like a diamond
- Grows along streams and in damp shady forest.



2-3 times divided





Lady Fern

**Athyrium filix-
femina**



Lady Fern

Spreading Wood Fern

- Height: 2 feet or more
- Fine lacy look. 3X divided
- Lower leaflets are larger with an asymmetric lower half. ↑ Whole leaf has a broadly triangular shape



A close-up photograph of a dense carpet of Spreading Wood Fern (Dryopteris expansa). The ferns are a vibrant, bright green color and have a highly dissected, feathery appearance. They are growing closely together, creating a thick, textured mat. The lighting is bright, highlighting the intricate details of the fronds.

Spreading Wood Fern

Dryopteris expansa

Oak Fern



- Small delicate fern – 12 inches tall, 2-3X divided. 3 triangular leaflets
- Leaves 2"-7" long by 2"-5" wide
- Grows in moist cool areas



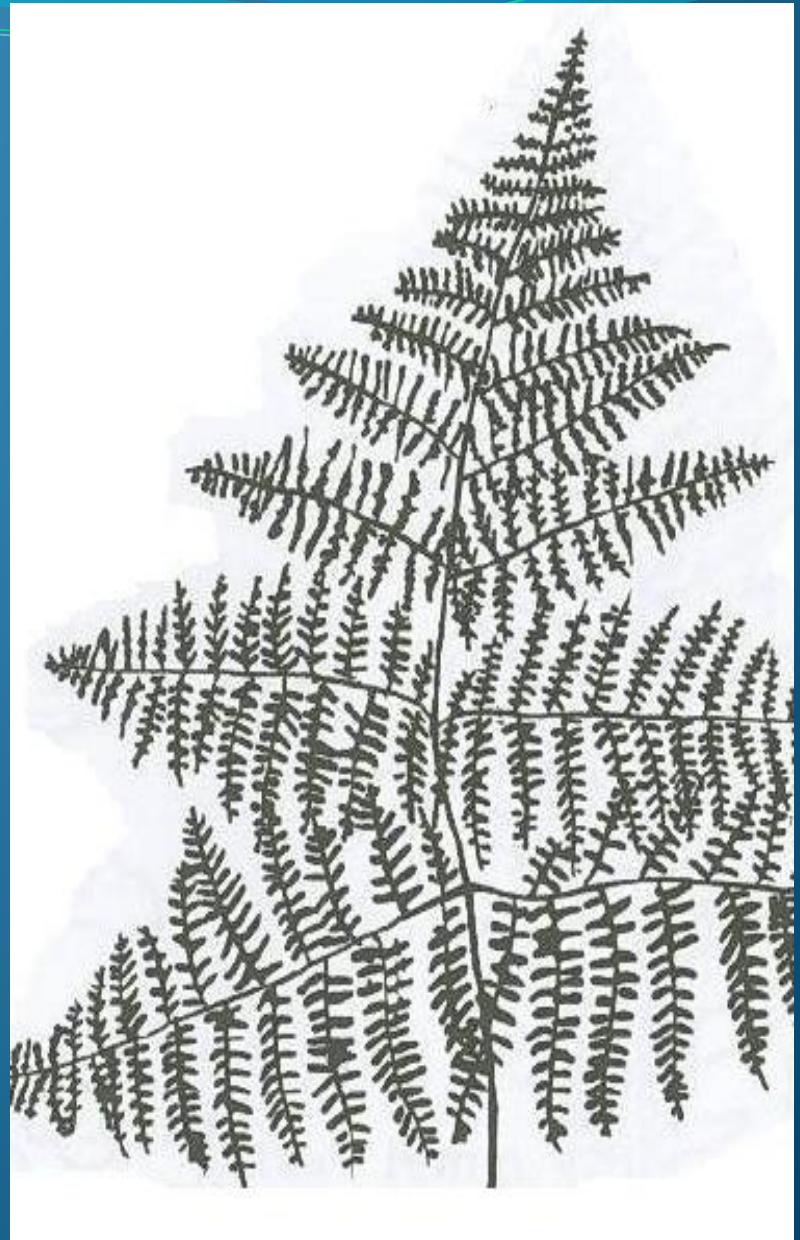
Oak Fern

Gymnocarpium
dryopteris



Bracken Fern

- Height – 4 to 5 Feet. 2-3X divided
- Single stalk..like a tree
- Multiple branching stems and triangular-shaped fronds
- Leathery and coarse-textured leaves
- Often found in disturbed areas



Bracken Fern

Pteridium aquilinum



A photograph of a Bracken Fern (Pteridium aquilinum) in a natural setting. The fern's large, feathery fronds are green and extend from a central stalk. A yellow callout box with a bracket points to the lower portion of the stalk. The background is dark and out of focus, showing some purple flowers.

Bracken Fern

**Stalk base is
usually 3 feet
before leaflets**

Maidenhair Fern



- 1 to 2 feet in height
- The soft and *delicate* fronds **circle** around tops of wiry black stems
- Palmately branched, black stems
- Along riverbanks
- Black stems used in basketry



Maidenhair Fern

Adiantum pedatum

Parsley Fern

- Has different sterile and fertile fronds
- (dimorphic)
- Evergreen sterile leaves
- 3 X divided
- Dry rocky sites, crevices, ledges, talus

Parsley Fern



Bud Kovalchik

Parsley Fern – *Cryptogramma crispa*



Fragile Fern

- Delicate, small
- 2-3 times divided
- Rocky areas, crevices, ledges, talus slopes
- Blades taper at both ends

Fragile Fern



Fragile Fern – *Cystopteris fragilis*



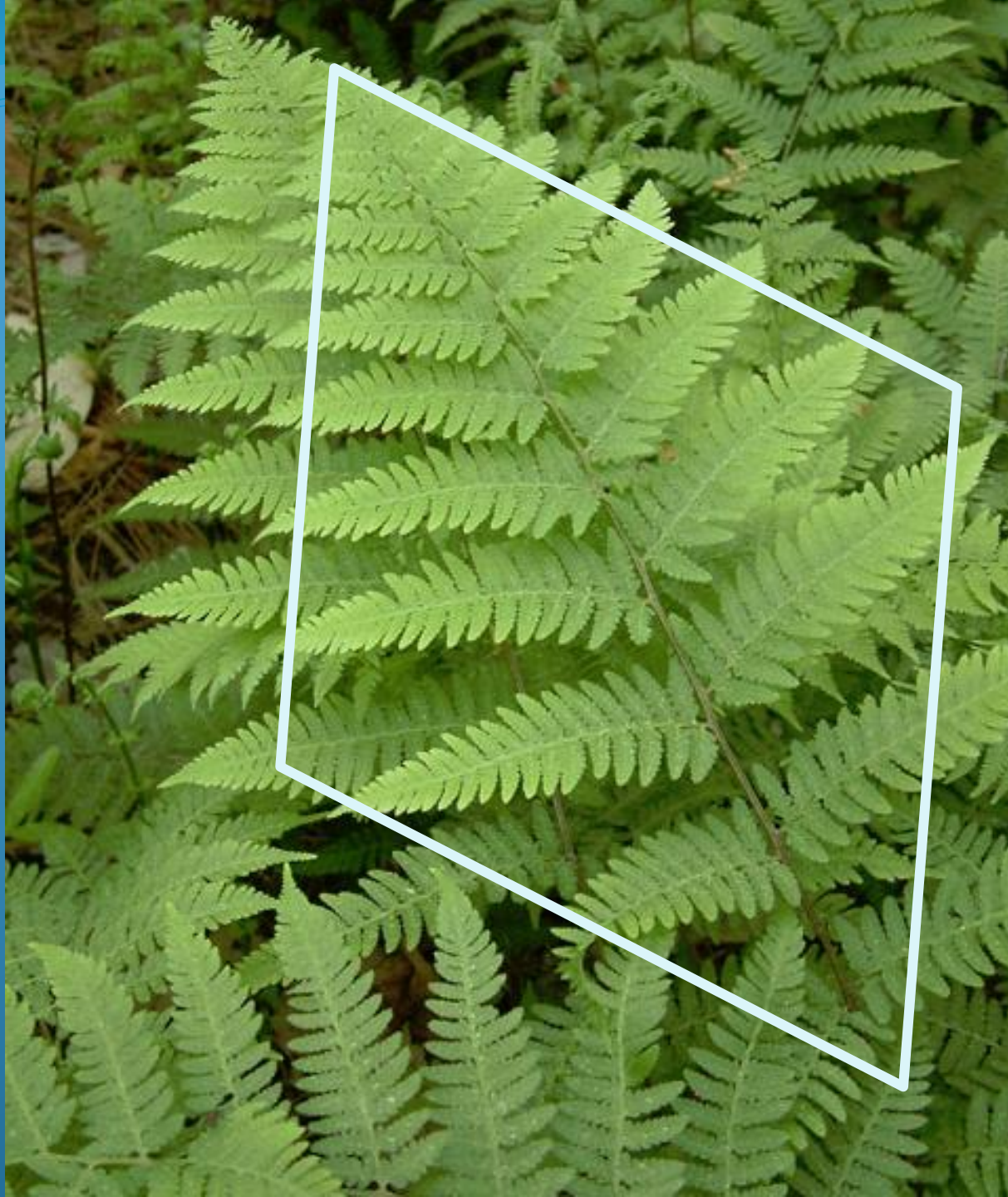


Test Your Memory























The End