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# Leaf Characteristics

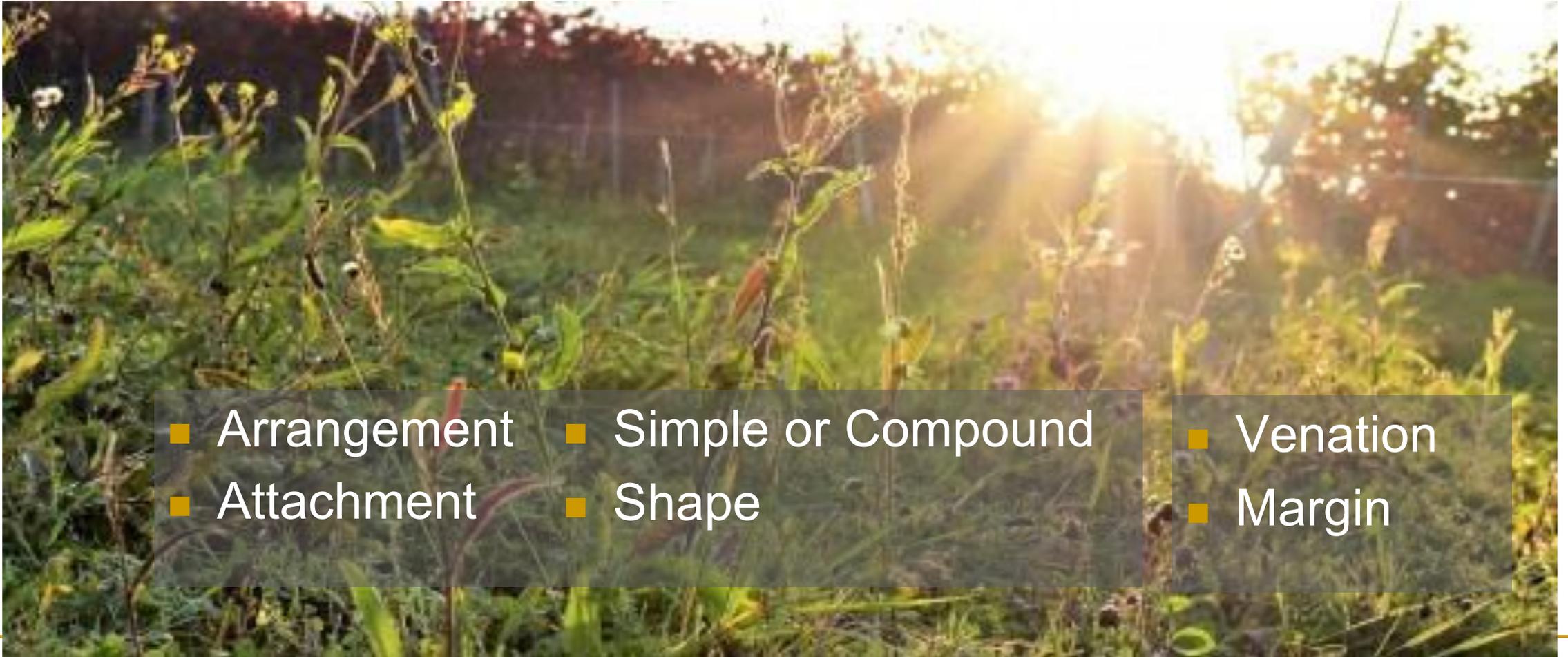
What you need to know to identify plants

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Wildland Plant Identification

# Leaf & Stem Arrangement

*.. A closer look at leaves*



- Arrangement

- Attachment

- Simple or Compound

- Shape

- Venation

- Margin

# Leaf & Stem Arrangement

- Basal



Basal

- Alternate

- Opposite



Alternate



Opposite

- Whorled

- Fascicled

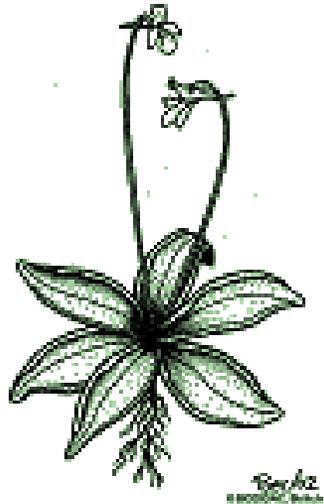


Whorled



Fascicled

# Leaf & Stem Arrangement..



Basal



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# Leaf Arrangements



**Alternate**



**Opposite**

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# Leaf Arrangement



Alternate



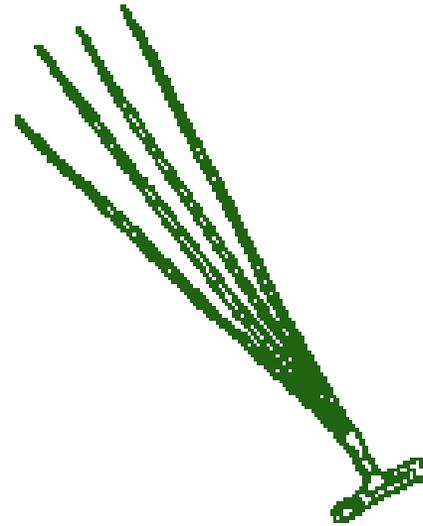
Opposite

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# Leaf Arrangements



Whorled



Fascicled

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# Leaf & Stem Arrangement



Whorled

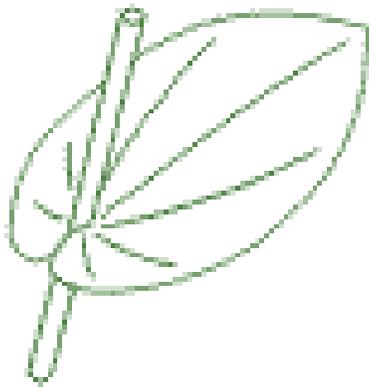


Fascicled

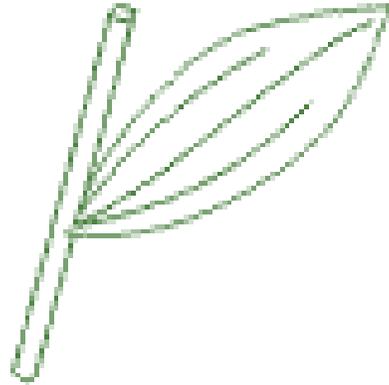
# Leaf Attachment

- Clasping
- Sessile

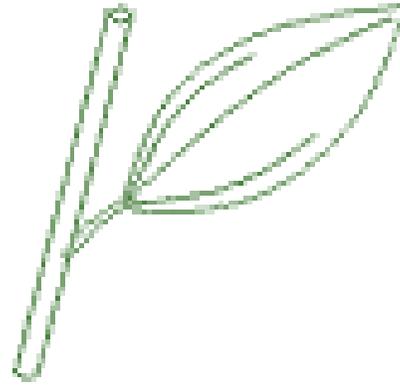
- Petiolate
- Sheathing



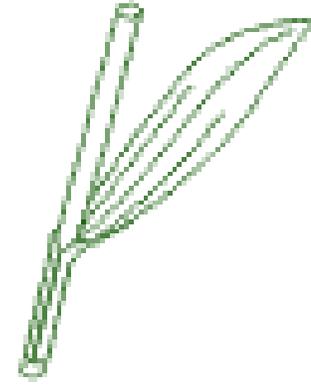
clasping



sessile



petiolate



sheathing

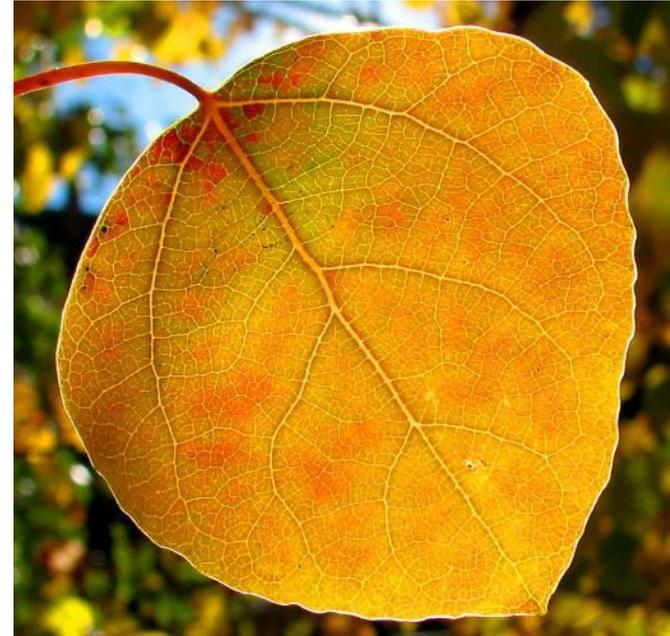
# Leaf Attachment



Clasping



Sessile



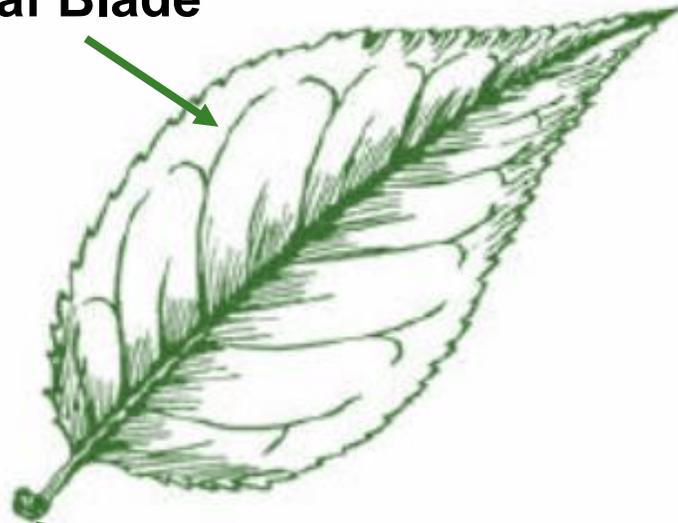
Petiolate



Sheathing

# Leaf Type: Simple or Compound

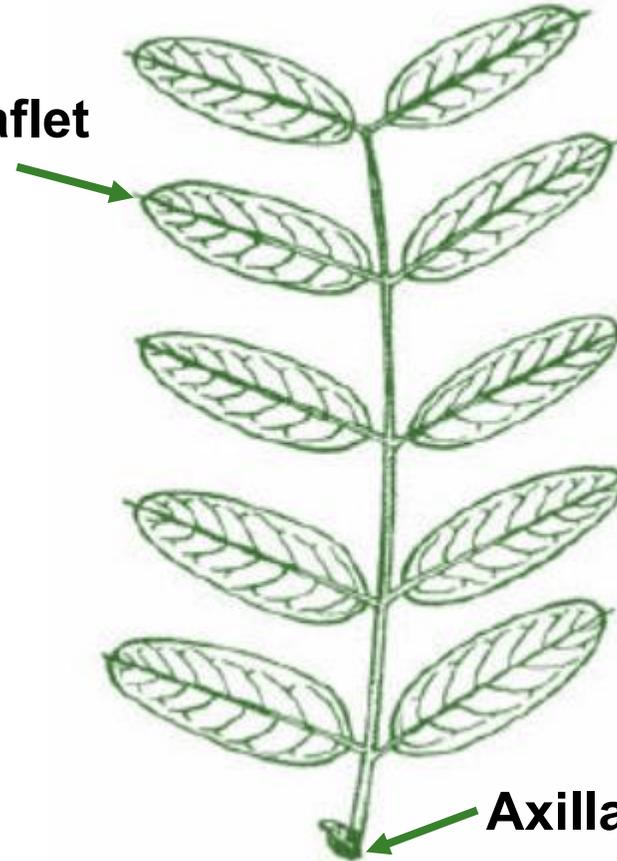
**Leaf Blade**



**Axillary bud**

**Simple Leaf**

**Leaflet**

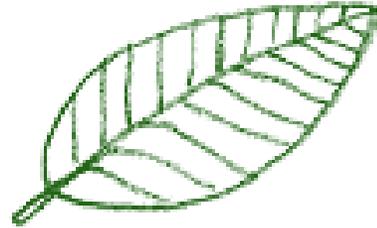


**Axillary bud**

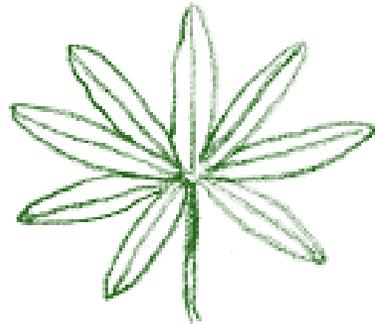
**Compound Leaf**

# Leaf Types

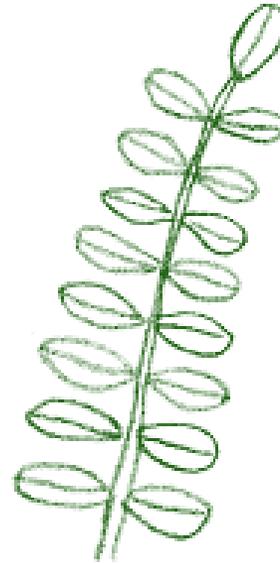
- Simple



- Compound



Palmately Compound



Pinnately Compound

# Simple Leaves



# Compound Leaves



Palmately  
Compound

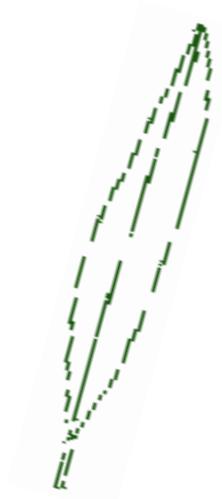


Pinnately  
Compound



Bi-Pinnately  
Compound

# Leaf Shapes



Linear



Elliptic



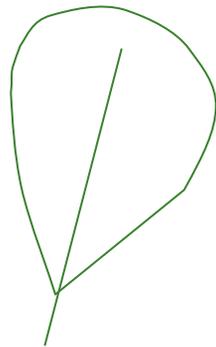
Lanceolate



Oblanceolate



Ovate



Obovate



Palmate



Wedge-shaped



Arrow-shaped

# Leaf Shapes



Linear



Elliptic



Lanceolate



Oblong



Ovate



Obovate



Palmate



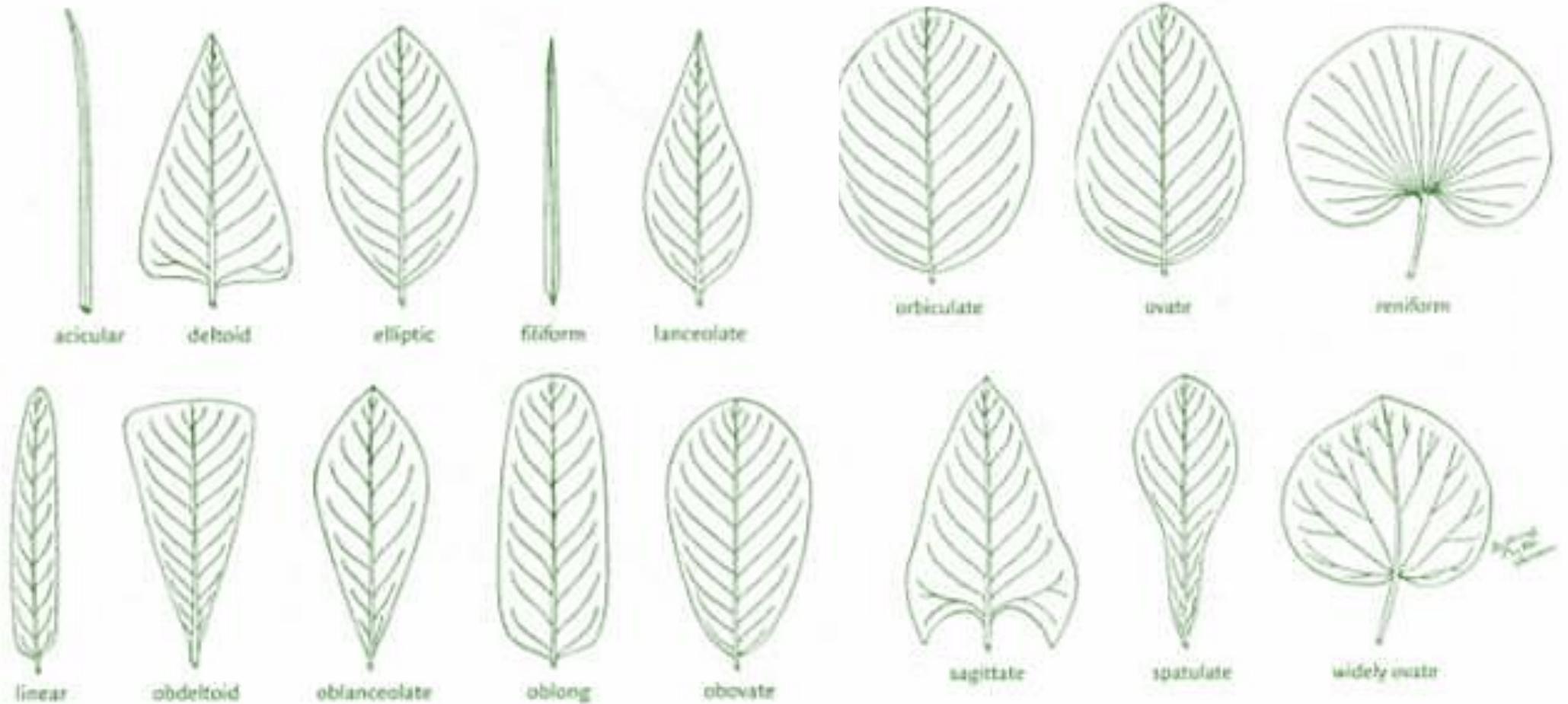
Wedge-shaped



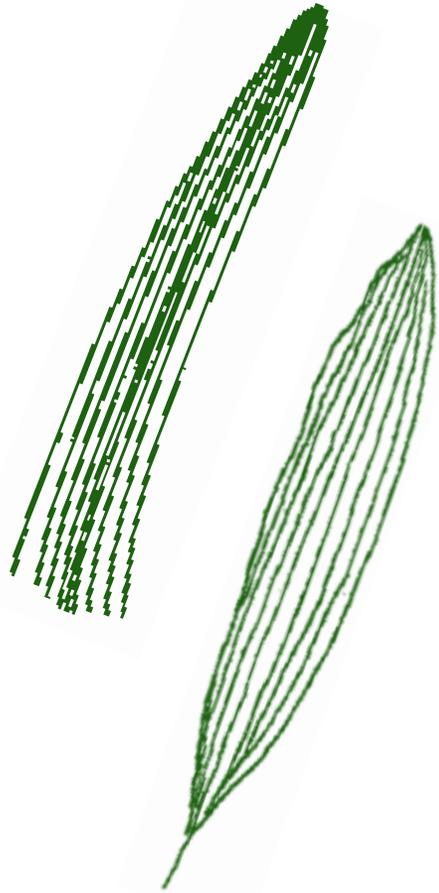
Arrow-shaped

# Many More Leaf Shapes

Fig. 11 in Textbook for class



# Leaf Venations



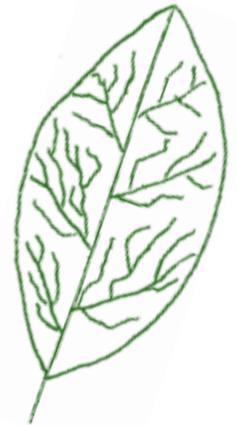
Parallel



Pinnate

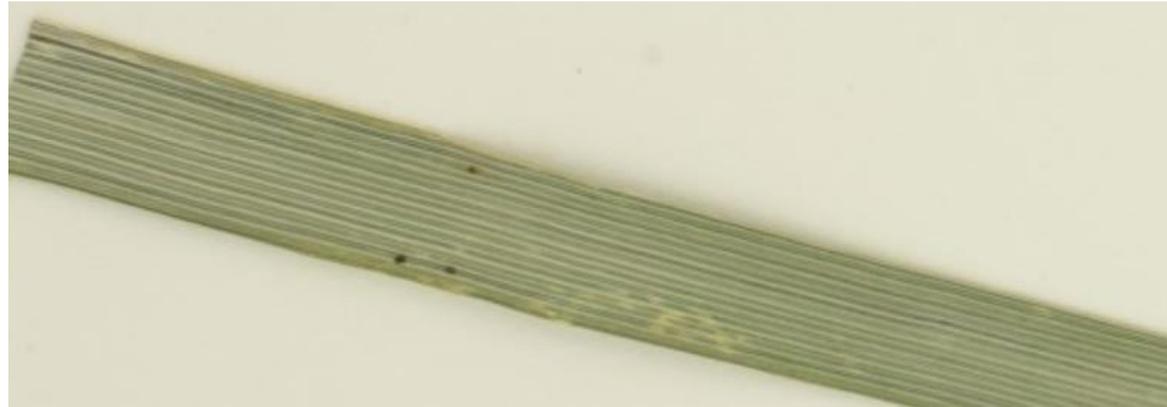


Palmate



Netted

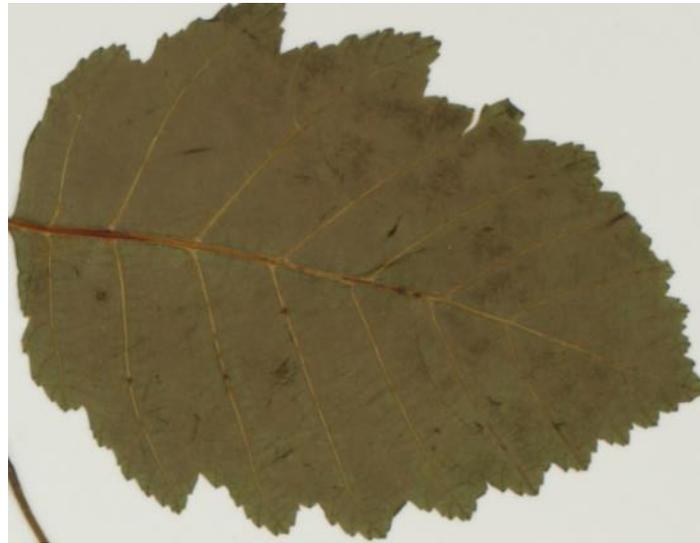
# Leaf Venation



Parallel



Palmate



Pinnate



Netted

# Leaf Margins



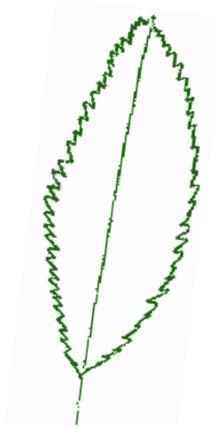
Pinnately Lobed



Palmately Lobed



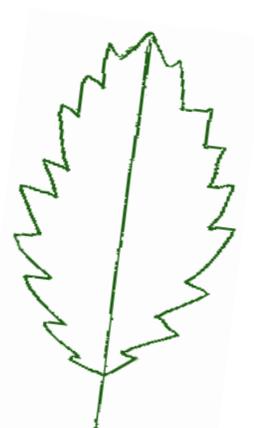
Entire



Serrated



Scalloped



Toothed

# Leaf Margins



Pinnately Lobed



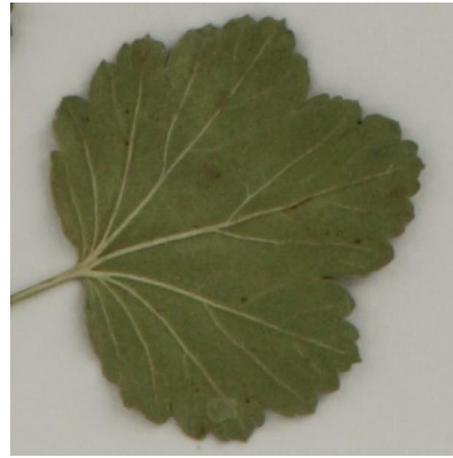
Palmately Lobed



Entire



Serrated



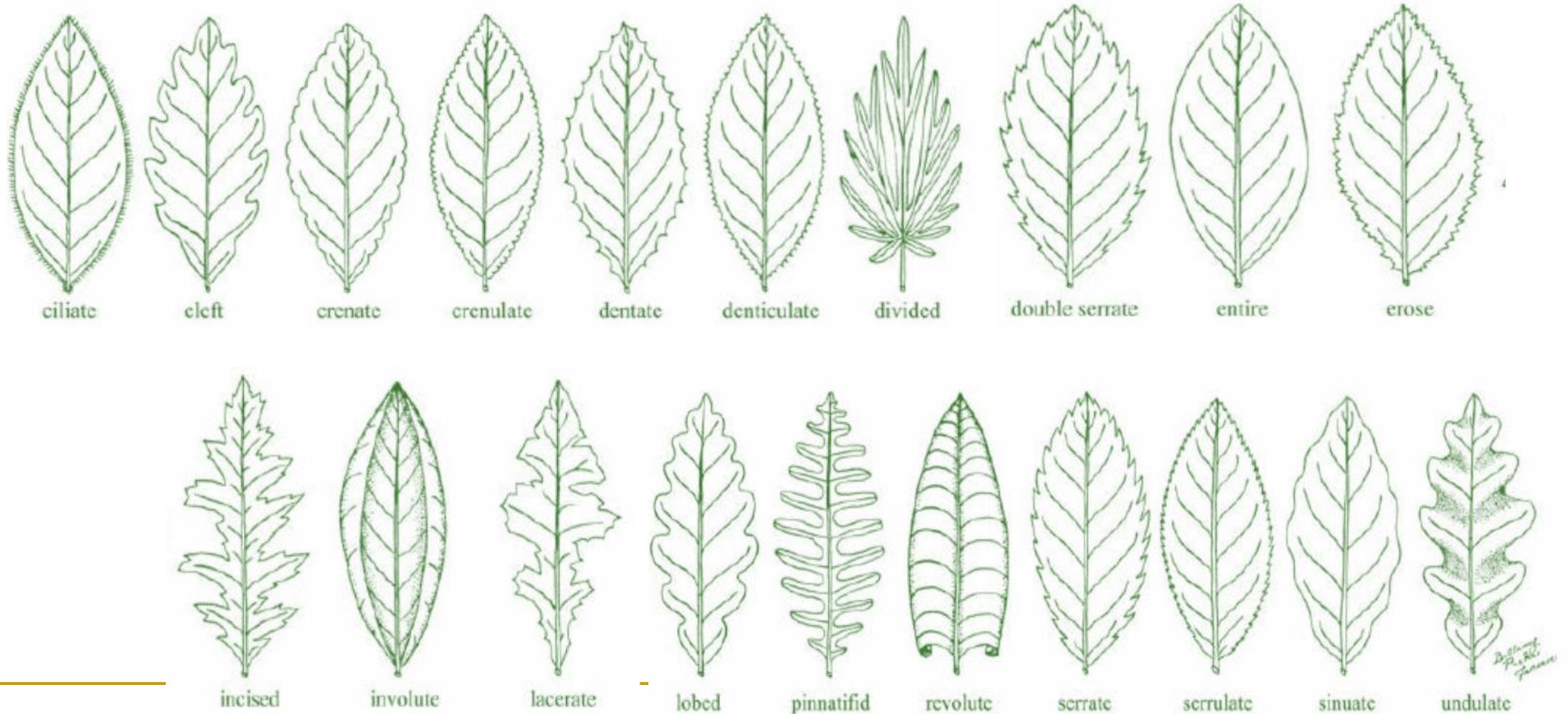
Scalloped



Toothed

# Many More Leaf Margins

Fig. 13 in Textbook for class



# Examples of Incised or Divided Leaf Margins



Incised



Palmately Divided



Pinnately Divided



Highly Divided

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# Leaf Characteristics.

What you need to know to identify plants

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Wildland Plant Identification