

LAYMEN'S GUIDE TO KEYING OUT COMMON ALASKAN PINALES.

-Isaac Firesmith

Current system has many flaws

- ▣ Keys we have used were purely text
- ▣ We live in a technological age, the tools we use should match that
- ▣ Unknown terms and concepts abound
- ▣ Impossible to use for anyone not trained
- ▣ Using a key can be time consuming even for those in the know

Goals of the project

- ▣ Make a purely visual key with only supplementary text
- ▣ Simple interface usable by anyone
- ▣ Easily differentiating species as a test bed
- ▣ instant access to have supplementary information
- ▣ Editable/updatable key information
- ▣ Easy expansion to current project
- ▣ Free access to anyone with an interest

Choice of Group

- ▣ Common Alaskan Pinales

Pinus contorta

Larix laricina

Picea glouca

Picea Mariana

Abies lasiocarpa

Xanthocyparic nootkatensis

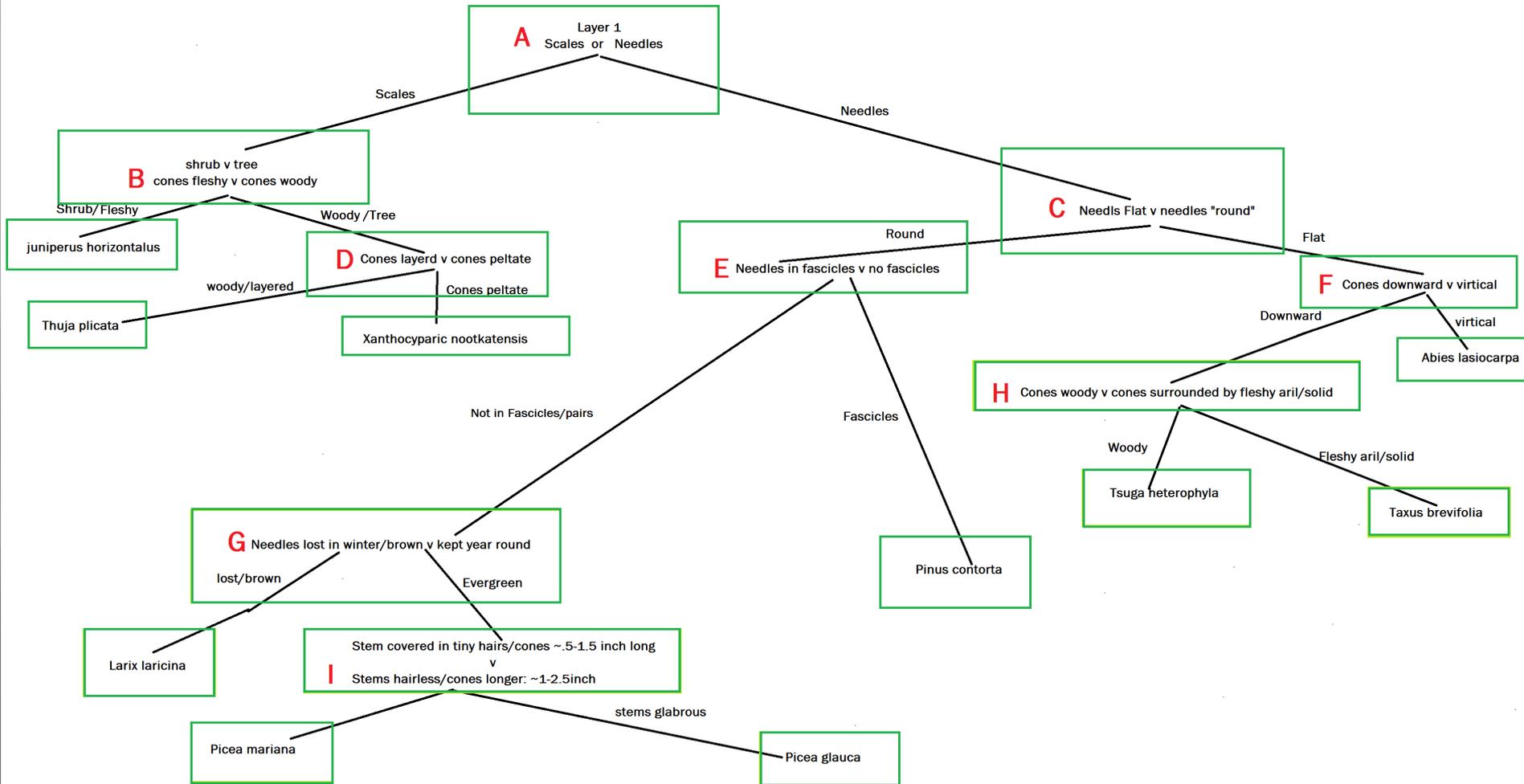
Tsuga heterophyla

Taxus brevifolia

Juniperus horizontalis

Thuja plicata

Key Couplets and complexity



Creation of the key

- ▣ Recording of each species and details of note
- ▣ Compiling edited couplet videos together
- ▣ Adding information and links via YouTube annotations
- ▣ Adding additional information about specimens used in description
- ▣ Adding species description and

Style of key

- Have as much needed information in the video itself at possible, while retaining the east side to side visual aspect.



Stage one: Click on the video that matches the type of plant you have.

Leaf type: Scales or Needles.

Scales:
The leaves on many evergreen Pinales are small scales that grow from the stems. They are usually very dense and don't grow very long.

Needles:
Needles are what many think of what an evergreen is mentioned. They are long and thin, Think of a Christmas tree as a common example of needles.

0:01 / 0:11

Quick Demonstration:

- ▣ https://www.youtube.com/watch?v=Qzjr_7dw5oU

- ▣ UAF Botany Teaching Collection Specimens
- ▣ UAM numbers: 301377, 301377, H1210388, 46610, H1210359: 46610,
- ▣ All Footage recorded by Isaac Firesmith

Questions?

Citations:

- ▣ Hultén, Eric. *Supplement to Flora of Alaska and Neighboring Territories: A Study in the Flora of Alaska and the Transberingian Connection*. Lund?, Sweden: Botaniska Notiser?, 1973. Print.
- ▣ Cody, William J. *Flora of the Yukon Territory*. Ottawa: National Research, 1996. Print.