

Great Basin Bristlecone Pine

Emily Boos

LARC 1520

Living Conditions

- ~ primarily found in eastern California, Nevada, and Utah
- ~ thrive in harsh conditions of exposed, dry, rocky slopes
- ~ elevations as high as 6,500-11,000 ft.

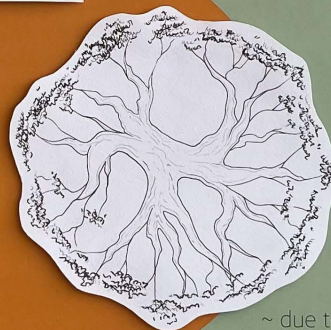
Adaptations

- ~ highly resinous wood to resist drought
- ~ wind and erosion of high elevations give the trees a gnarled, dead appearance
- ~ sectoral architecture: the roots support only the section of the tree directly above them; if part of the tree dies, the rest continues living
- ~ while some trees grow at lower elevations, they are more prone to wildfires



Growth

- ~ extremely slow growth
- ~ found in isolated groves just below the tree line
- ~ heights up to 40-60 ft.
- ~ trunks can be as wide as 12-30 in.
- ~ 1 in. long needles grow in packets of five
- ~ due to harsh living conditions, some trees may go multiple years without new growth or needles
- ~ each tree produces both male and



Methuselah

- ~ oldest non-clonal species on the planet
- ~ this tree in particular is over 4,000 years old
- ~ because these trees are so old, their trunks act as a climate vault (dendrochronology), allowing scientists to study past climate patterns



Pinus longaeva

Three Second Slope: A Topographical Study

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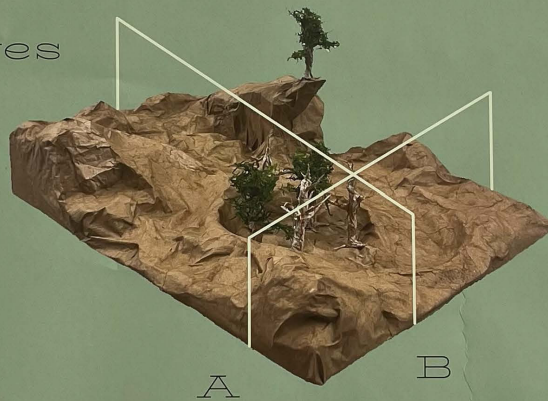


A view of the crater- a place of unity.



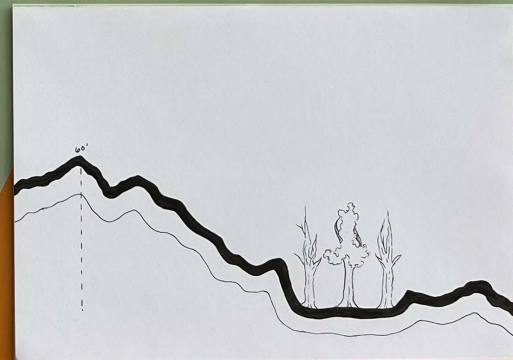
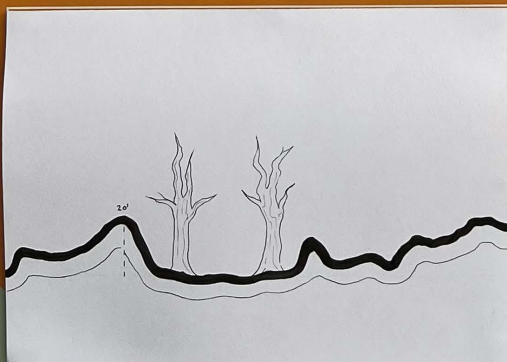
A dramatic cliff exalts a single Bristlecone Pine.

Perspectives



Sections

Surrounded by abstract ridges and topographical chaos, a 15 foot deep crater dips into the earth. A ring of towering Great Basin Bristlecone Pine trees create a central point that opens up to the vast sky above.



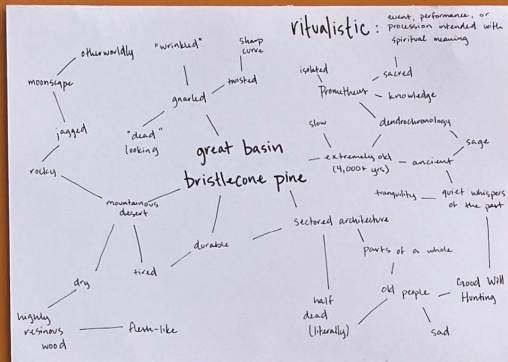
While the overall landscape resembles a slight slope, a 75 foot cliff pierces from the landscape. The striking emphasis creates a prominent focal point overlooking a secondary focus below. A simple pathway descends down the slope; a symbol of flowing knowledge and procession.

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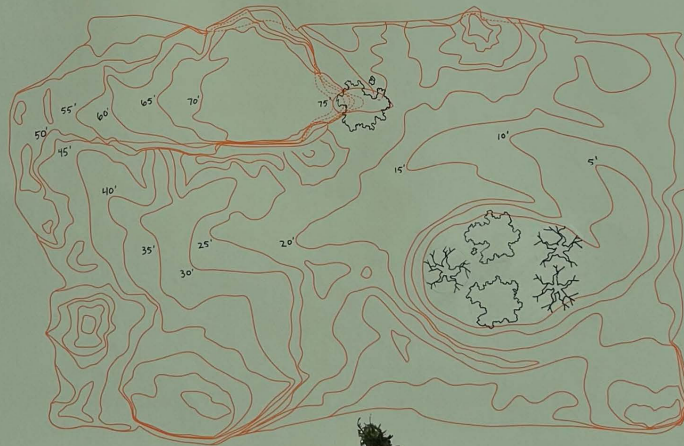
Ritualistic



Upon studying this tree, it became evident that the Great Basin Bristlecone Pine was a tree full of stories. Despite thriving in a habitat that is nearly unreachable to humans, the Paiute tribe has lived nearby for over 4,000 years.

While there are no distinct records, one can only imagine the impact such a unique, towering tree could have on a community of people. Additionally, the Bristlecone Pine seems to emanate an ancient, mystical, and spiritual power of its own.

Considering the knowledge these trees have provided our society, one could personify the Great Basin Bristlecone Pine as a sage, elderly man; he is one with the duality of nature, and celebrates it through a intricate dance of twisted, complex beauty.



Topography

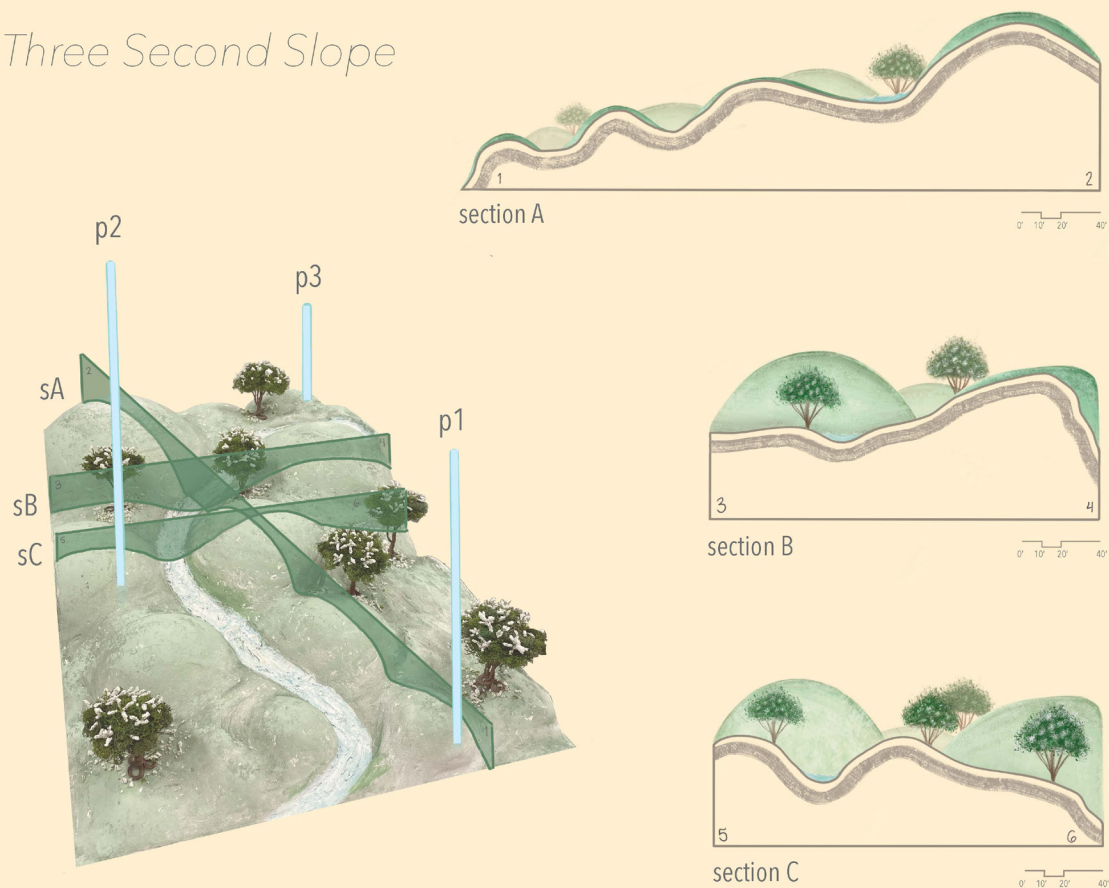




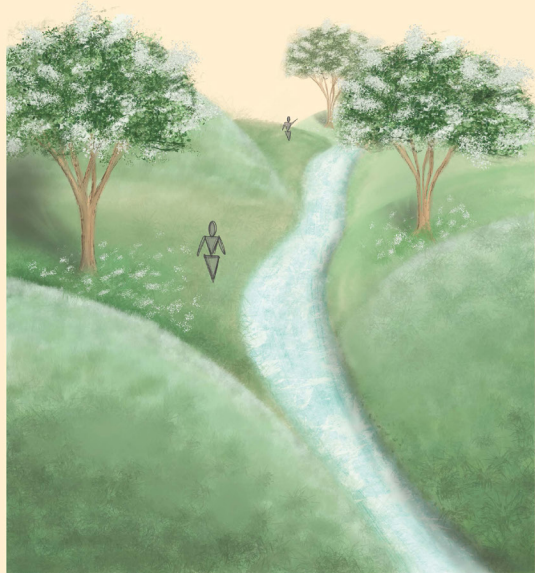


NATCHEZ SLOPES

Three Second Slope

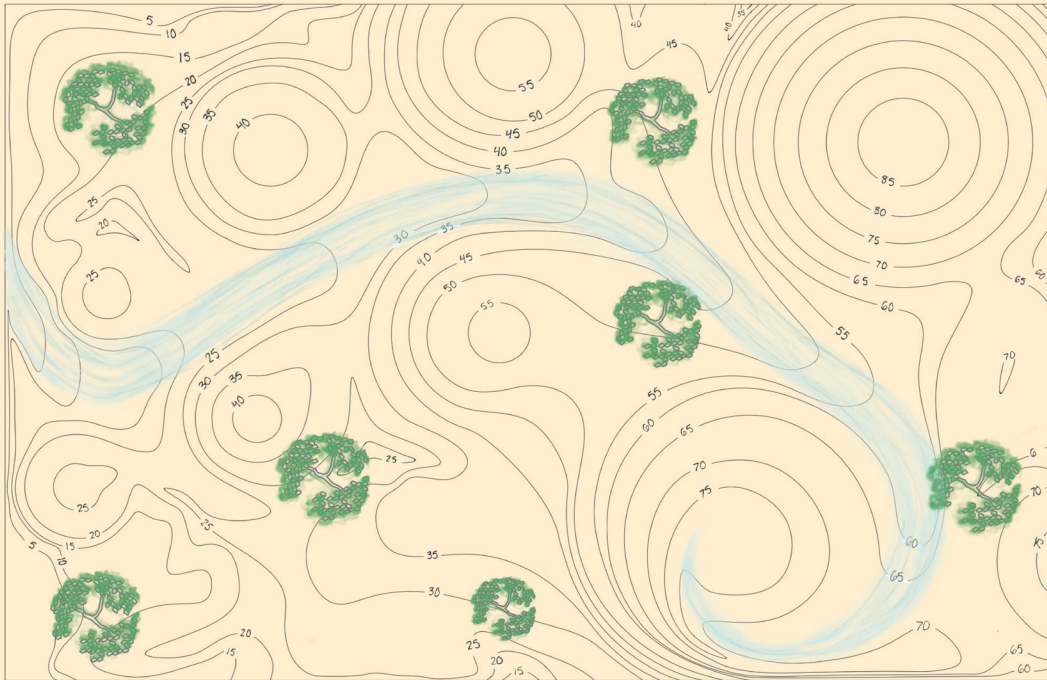


perspective 1



perspective 2

Alexandre Ugan - LARC 1520 - Iagostroemia Natchez - 22 February 2023

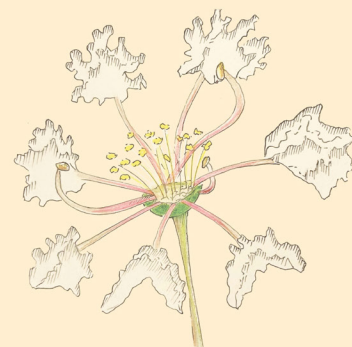


natural landscape designed around the word **elegance** as the smooth and effortless hills mimic the smooth bark and the arched beauty of the Natchez Crape Myrtle trees

the concept of "slopes" is derived from the idea that the white Natchez Crape Myrtles drop their flowers and create a serene "summer snow"



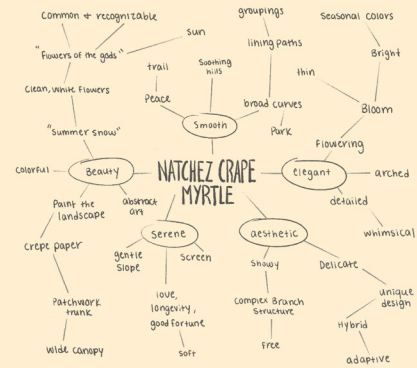
artful and abstract landscape with Natchez Myrtle at heart has four season interest with summer flowers and peeling cinnamon colored bark through the winter



Alexandra Ugan - LARC 1520 - lagersioemia Natchez - 22 February 2023



process - step 1



process - step 2



perspective 3

foam, paper mache, and drywall compound used as the base of the model and sandpaper used to smooth out the hills



spray paint, acrylic paint, wire and moss trees, spray glue, and foam "flowers" for finishing touches

ball passes from highest to lowest point of model in over three seconds utilizing the textured, river-like path

NATCHEZ CRAPE MYRTLE

Lagerstroemia Natchez

Alexandra Ugan

The quintessential South Carolina plant and most common **hybrid**. Drought and heat tolerant as well as powdery mildew resistant. Known to symbolize love, beauty, and marriage. Named after the Natchez American Indian tribe. This tree has 4 season interest



Deciduous tree with arching growth habit

Smooth cinnamon brown and orange exfoliating bark which increases attractiveness even in winter

25-35 feet tall and 15-25 feet wide



3-5 feet of growth per year

Green berries turn to brown and woody capsules before drying out and eventually dropping the seeds

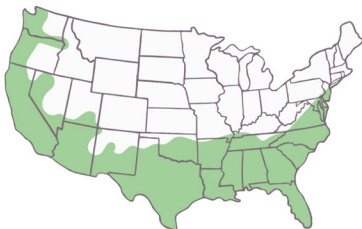
Root system is shallow, fibrous, and wide, weak, dense, and close to the surface

Foliage includes Glossy, dark green leaves that are 1 1/2 to 3 inches long and 3/4 to 1 1/2 inches wide

The dark green leaves turn vibrant yellow-orange and red-burgundy shades in the fall before dropping in winter



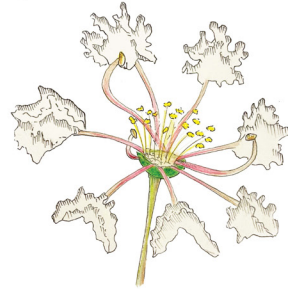
Thrives in full sun exposure but is very tolerant. It is very low maintenance and has average watering needs. Prefers heavy loam to clay soil.



Hardiness zones 7-10

The trunks can be either single or multiple stemmed

Used for mass planting in parks, for aesthetics, or as a screen near roads or walkways



Pure white flowers produced from late June to September

Long-tapered panicles with 100-800 flowers per inflorescence

Flowers resemble "crepe" paper and are soft textured

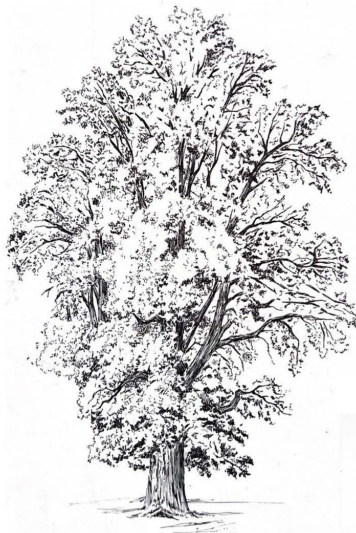
Attract butterflies, bees, and hummingbirds





Ulmus Parvifolia Chinese Elm

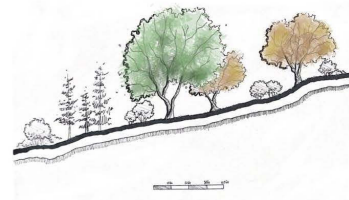
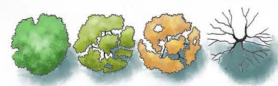
Slope Run - Tree Study
Larc 1520: Basic Design II
Cara Henderson



FROM THUNDER - A HARBOR FOR SALVAGES, CECILIAN APARTMENT
FROM LARK - A HARBOR OF BARK, INCLUDING THE
AMERICAN GALT TONCH

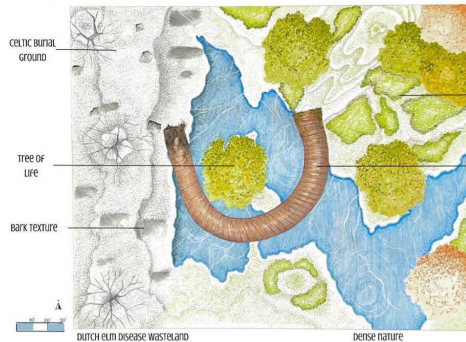


seasonal appearance



Salvador
Dali's "Tree of
Life" painting is
famous for its
abstract
interpretation of
the Elm.

In 1910 in Western Europe, then accelerating through the
US in the 1920s, Dutch Elm dDisease destroyed more
than 20 million trees by the 60s and 70s.



Dutch Elm Disease Wasteland

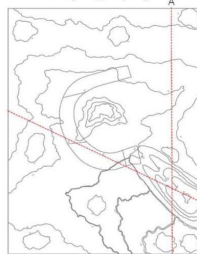


Timeline Bridge

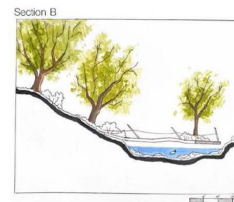
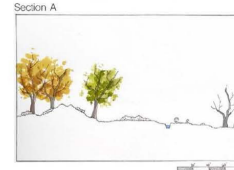
Three Second Slope

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Sections & Topography



- contrast and gradient
displayed as the ball
traverses across the
landscape



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Materials:

- foam base
- plaster
- acrylic paint
- wire
- resin
- polymer clay
- moss material
- static grass



elements of life and death are represented as the pingpong ball moves through the dense nature, across the "larger than human scale" bridge, and into the barren wasteland

