Gardening for Beginners Week 1: Basic Plant Needs

Recommended Zoom settings:

- -Microphone muted
- –Video off
- -Speaker view

-Use chat window for questions





University of California Agriculture and Natural Resources Master Gardener Program

Who are we?

University of California, Division of Agriculture and Natural Resources

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UC Master Gardeners, Santa Clara County, CA



See our events calendar for many free online events.

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Events Calendar

Garden Help

Demonstration Gardens

Community Programs

Who We Are

UCCE Main Page

Advice to Grow By ... Ask Us!

Have Questions?

UC Master Gardeners are here to help. There are many ways to find answers to your gardening questions.

- Contact our <u>Help Desk</u>
- Come to our <u>Plant Clinic Online</u>
- Attend one of our <u>classes or events</u>
- Watch some of our <u>video tips and talks</u>
- Visit one of our gardens
- Browse our <u>Garden Help</u> pages

Vegetable Gardening

Want to grow your own vegetables? See our vegetable gardening pages for how to get started and advice on specific vegetables. Our vegetable planting chart shows you the best times to plant vegetables in Santa Clara County.





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Week 1: Basic plant needs

- Climate, Sun, Soil, Space & Water
- Draw a site plan
- Week 2: How does your garden grow?
 - Plant parts, Plant types
 - Make a plant list
- Week 3: Choosing plants & keeping them safe
 - How to choose plants; pests and diseases
 - Scavenger hunt on UC IPM
- Week 4: Working in the garden
 - Soil prep, planting, maintenance



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Gardening in the Pandemic

"Americans soon discovered a green new world in the backyard. Creating gardens gave stir-crazy individuals a fresh perspective and a break from stress and close quarters. In the garden they felt a sense of belonging and a measure of control."

"Gardening's appeal crosses political lines."

"The gardening revolution has allowed tens of millions of people to agree on at least one thing: that food for the body and beauty for the soul are within the grasp of a seed or a plant, and only a few steps from our door."

"Covid Isolation Sows a Gardening Boom" George Ball (Chairman Burpee Co,. and former President of American Horticultural Society. WSJ Article Jan 3, 2022



Zucchini Hunt



Potato Dig



Poll

Denise

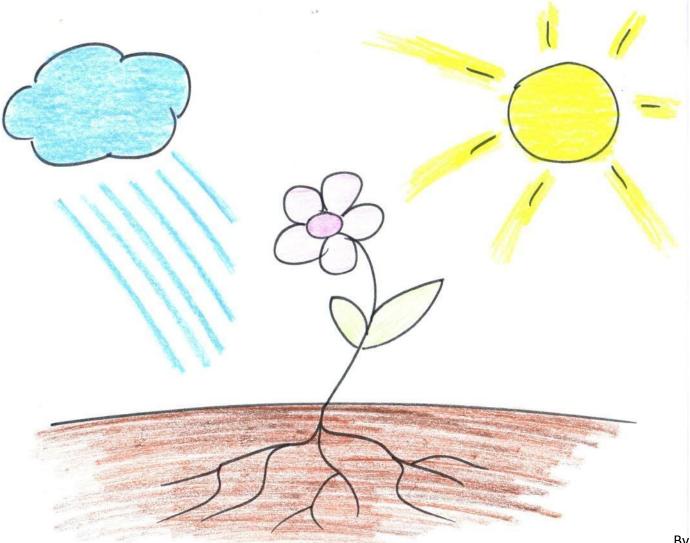
Where will you be gardening? What kinds of plants are you interested in?



Intro to Class #1

Denise

Class 1



By Isabelle Cnudde

Right plant, right place



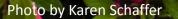


Photo by Isabelle Cnudde

lemon tree: moderate water + sun + native soil with some amendment
azalea: lots of water + shade + well amended soil
oak tree: no summer water + full sun + native soil
rosemary: little to no summer water + full sun + native soil
tomato: lots of water + lots of sun + loose well amended soil

Photo ipm.ucdavis.edu

Photo by Karen Schaffer



azalea: lots of water + shade + well amended soil

oak tree: no summer water + full sun + native soil rosemary: little to no summer water + full sun + native soil

lemon tree: moderate water + sun + native soil with some amendment tomato: lots of water + lots of sun + loose well amended soil

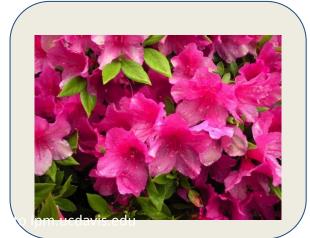






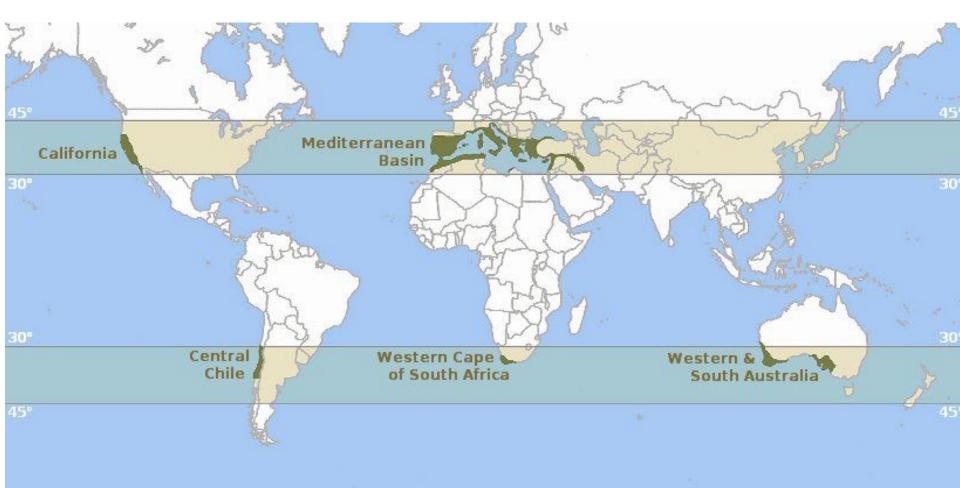
Photo by Isabelle Chudde

o by Karen Schaffer

Climate

Bob

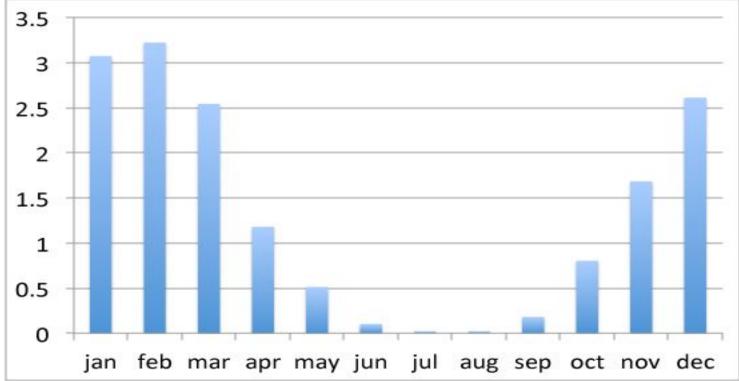
Mediterranean climate



Map used with permission from gimcw.org, copyright Seán O'Hara

Sunnyvale rainfall

(Average inches per month)

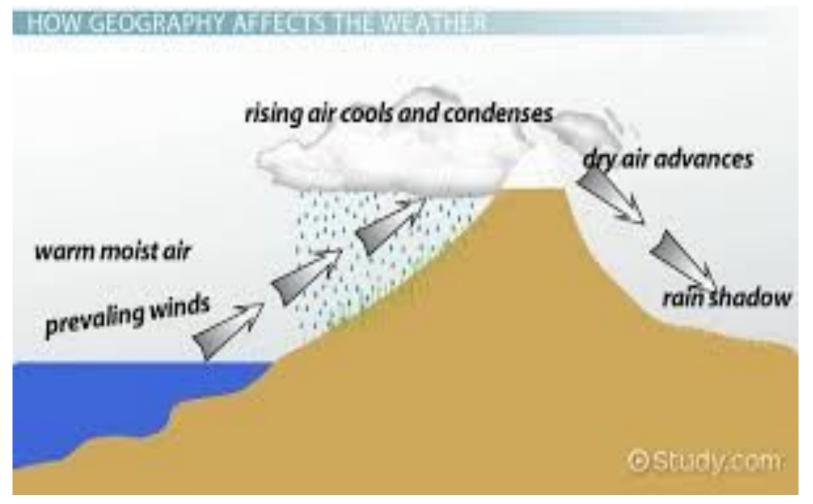


Sunnyvale: 15" Rain per year, 63 Rainy days and 260 Sunny days

Ben Lomand: 50" Rain per year, 68 Rainy days and 263 Sunny days

Diagram by Louise Christy

Rain Shadow



Sunnyvale rainfall plus average highs

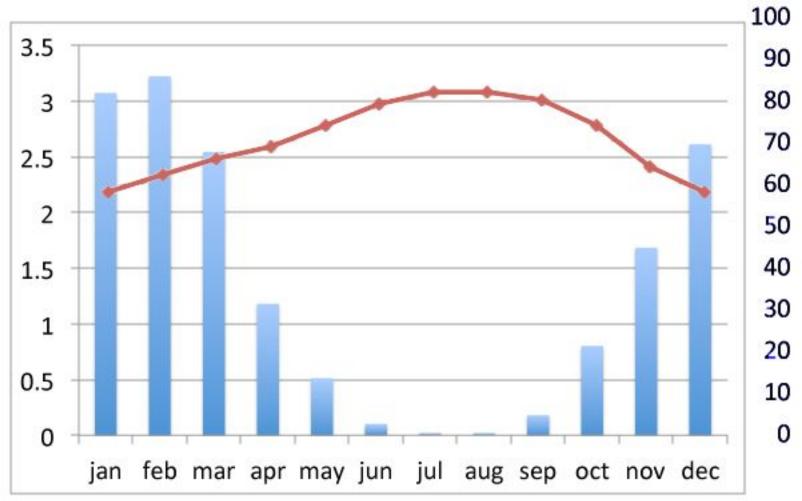
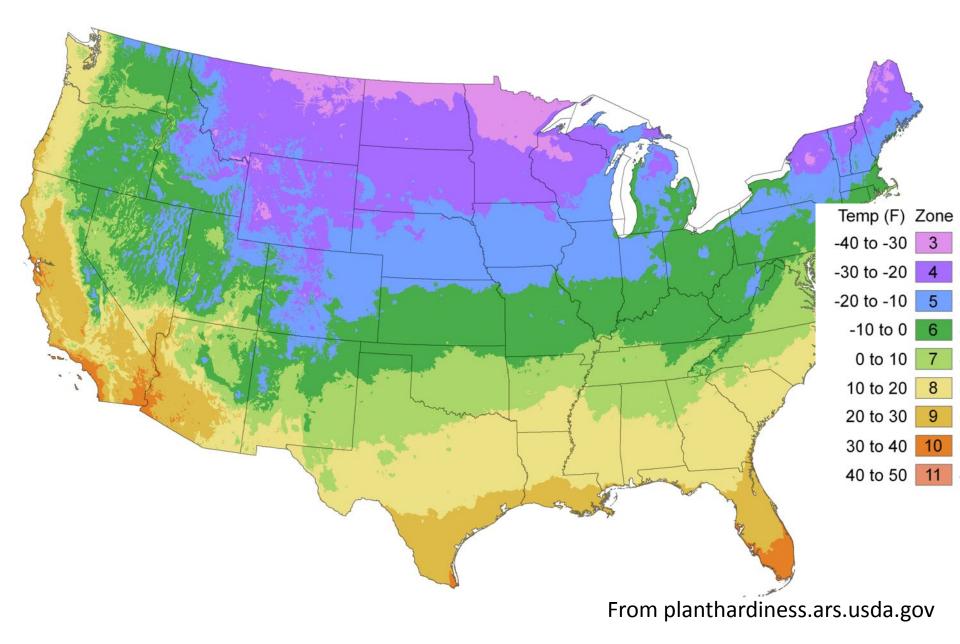


Diagram by Louise Christy & Karen Schaffer

USDA hardiness zones



Sunset climate zones

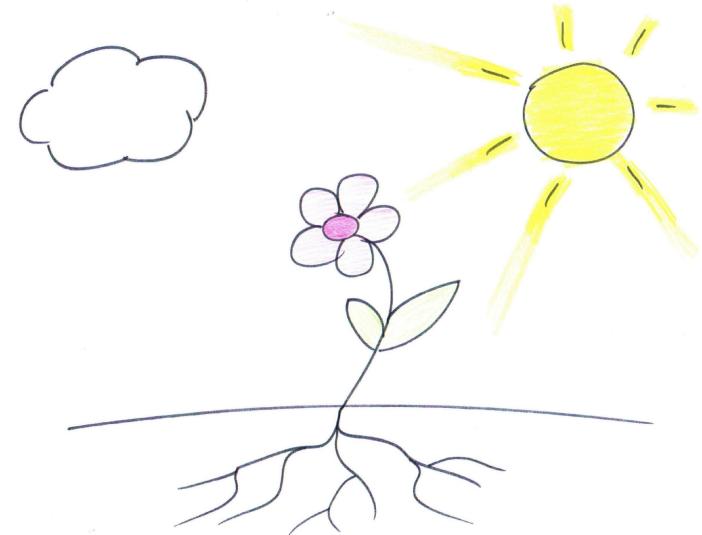


From Sunset.com

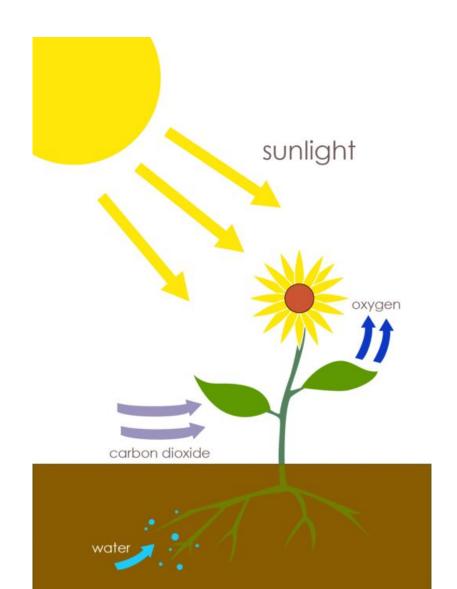
Sun

Susan

Sun

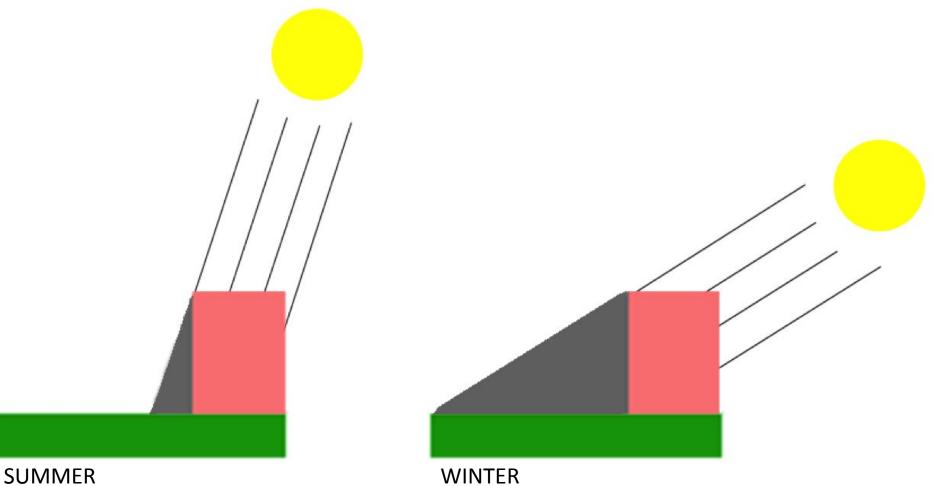


Photosynthesis



By At09kg

Know where your sun is



By Karen Schaffer

Good sun exposure





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Sun patterns matter







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Track the patterns of sun and shadow





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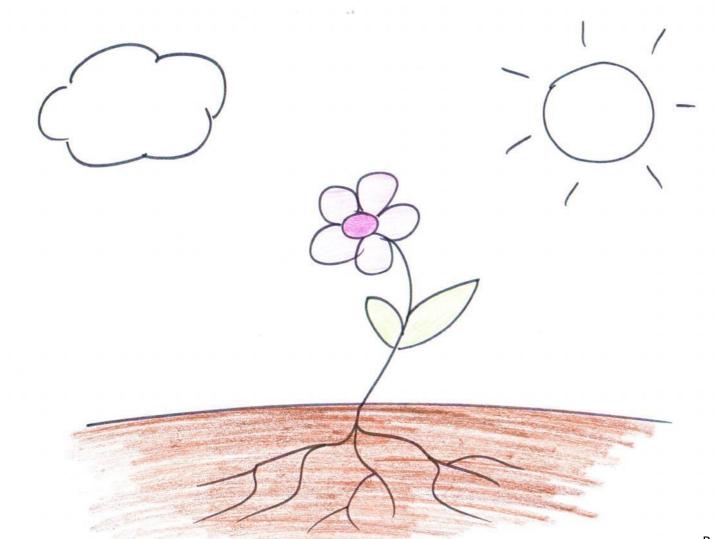
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Soil

Paul

By Isabelle Cnudde

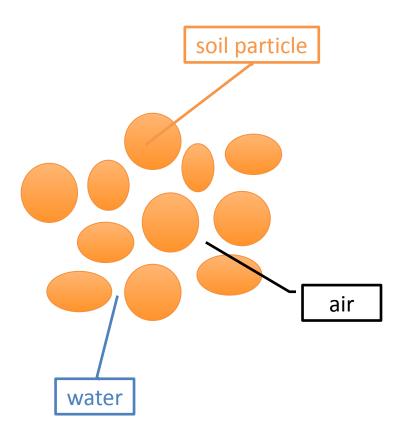
Soil



By Isabelle Cnudde

Soil composition

- 50% solid
 - 45% minerals
 - 5% organic matter
- 50% space
 - 25% air
 - 25% water





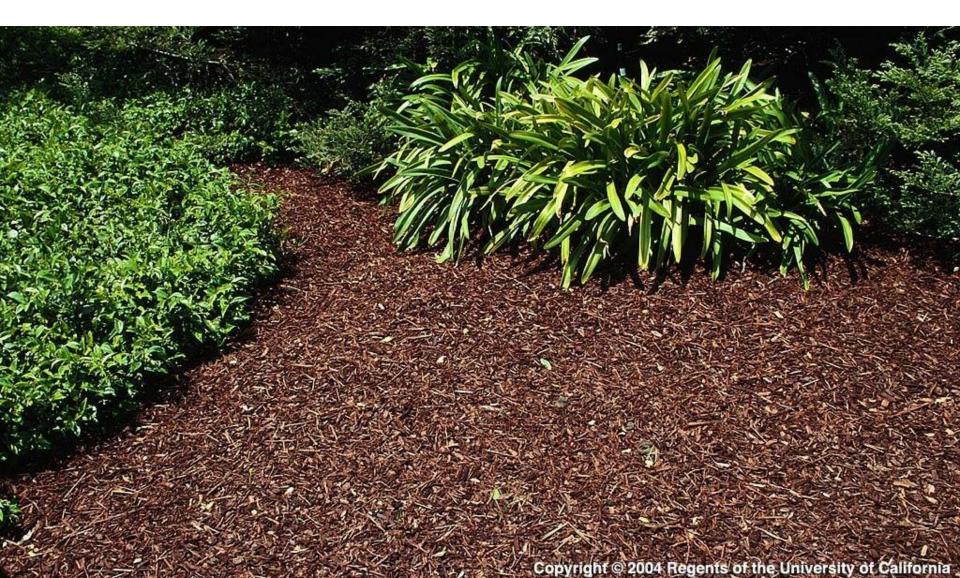
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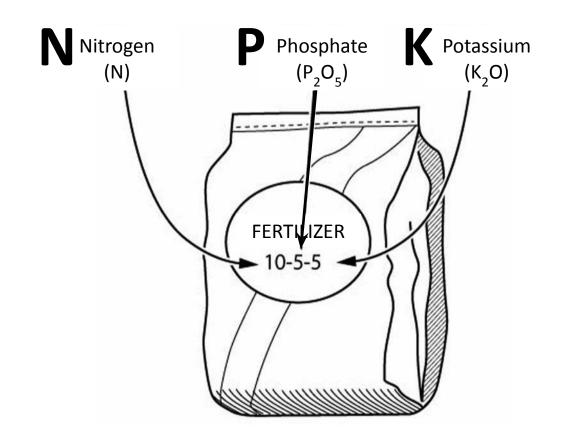
Compost



Mulch



Soil Nutrients that Plants Need



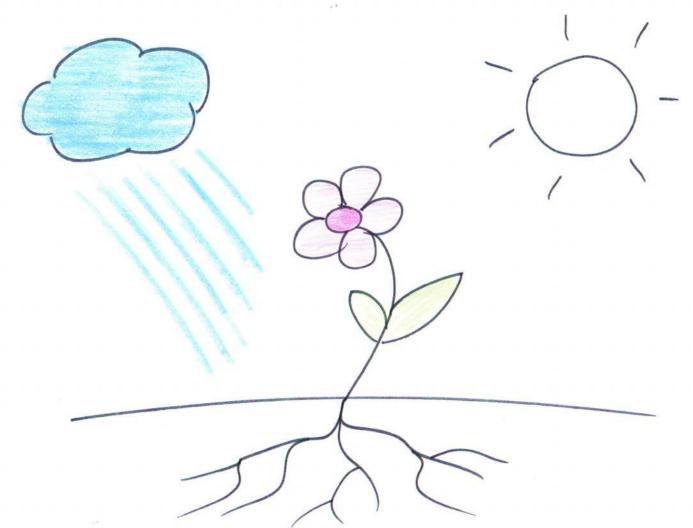
California Master Gardener Handbook



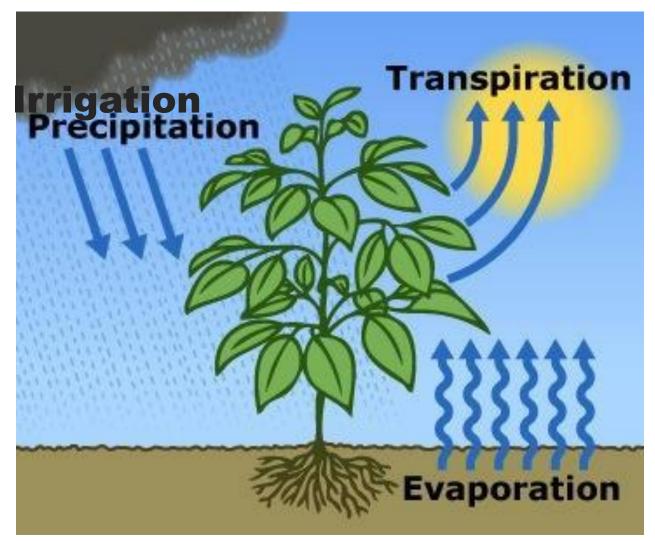
Water

Louise

Water



Water cycle



Credit: Salinity Management Guide

Right amount of water



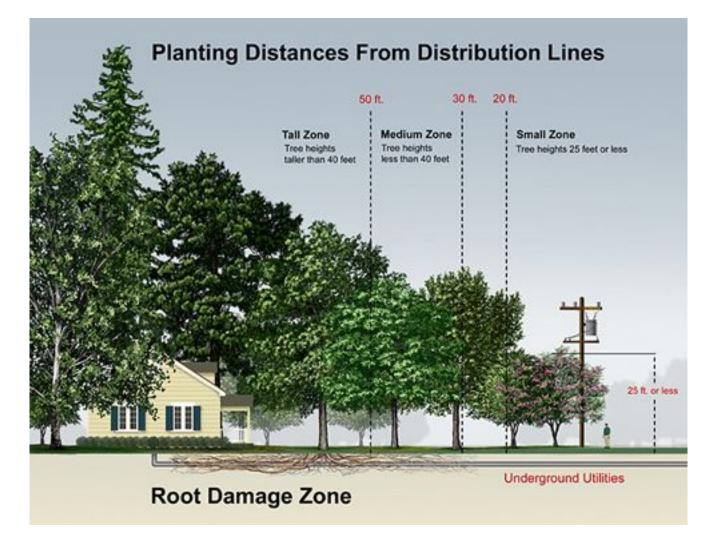
Space - Another Fundamental Need of Plants

Denise



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Spacing: Height, width, roots



From PG&E

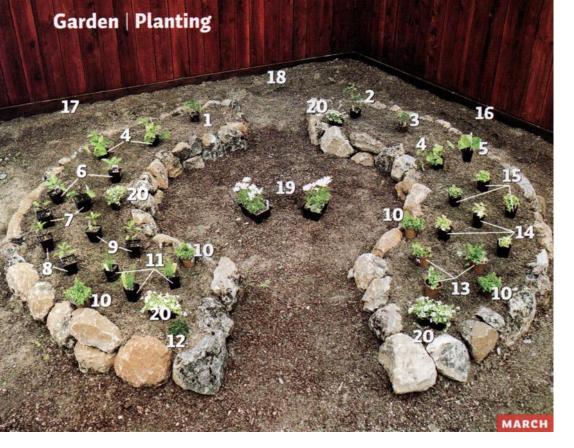
Too close!

Photo © Monica Hemingway

Photo © Monica Hemingway

Photo by Kourtney Cribbs

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March



Analyze your garden

Louise

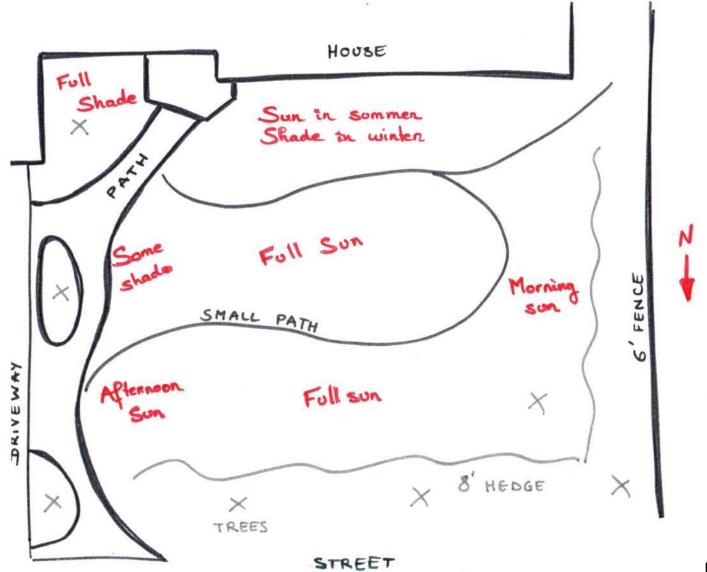
By Isabelle Cnudde

How will **YOUR** garden provide for plants' needs? Sun Soil Water Space Climate



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Example map



By Isabelle Cnudde

For next week: analyze your garden area

- Sketch a map of your space
- Include objects like fences, sidewalks, patios
- Sketch in existing trees, shrubs, and hedges
- Mark where water faucets are
- Observe the sun and shade patterns and mark sunny and shady areas on your sketch.
- Mark which way is North.
- (optional) email it to <u>christyldc@aol.com</u>



Demonstration

Susan

By Isabelle Cnudde

What questions do you have?



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Thank you for coming



