Flora
Electronica
Interaction

Three Plant Personalities
Shy
Sociable
Bored

Three Inputs
Interactor’s Movement (photo sensors)
Interactor’s Voice (acoustic sensors)
Remote changes to plant cluster’s personality (Second Life interface)

Four Outputs
Plant Movement (leaning, stretching up, shifting down, gyrating)
Plant LEDs (two colors, one indicates response to local stimulation, the other indicates remote changes to plant cluster’s personality)
Overhead scrim lights (respond to local stimulation, indicate plant cluster’s personality type, increase in intensity as plants enter gyrating mode)
Sound (ambient low-key sound without stimulation, increases in intensity as plants enter gyrating mode)

Three Levels of Activity
Static (no interactor in close proximity, no plant movements, low-level sound and lighting)
Interaction (interactors engage with plants, moderate increases in sound and lighting)
Gyrate (all plant clusters are stimulated, requires a group of interactors to activate all plant clusters; plants gyrate, sound and lighting most intense)

Shy Plants
Movement
Shy plants move away from you. Step back a little, the plants eventually lean toward you.
Voice
Speak softly to shy plants and they grow and over time gyrate in response.

Sociable Plants
Movement
Sociable plants lean toward you.
Voice
Speak in a normal voice to trigger plant growth. Sociable plants soon gyrate in response to chatter.

Bored Plants
Movement
Bored plants lean slightly toward you but quickly move back to their original position. Move in very close to keep them leaning toward you.
Voice
Speak loudly to bored plants and they grow and eventually gyrate in response.
Plant Cluster

- Fiber optic plant heads
- Stem
- Supporting disc
- Bi-color LED
- Two servo motors to control disc orientation
- One servo motor to control plant growth
Wiring boards
10 feet
Speakers
3 clusters of 3 plants
Laptop PC for plants, lights and sound I/O
Motion sensors and microphones
Support pole for scrim and lights
3 clusters of 3 plants
Wiring boards
Speakers
Laptop PC for plants, lights and sound I/O
4 feet in diameter
10 feet
Scrim
(Aerial Perspective)

Mound diameter = 4 feet

Webcam
Scrim fabric
RGB LED Lights

Mound diameter = 4 feet
12 feet