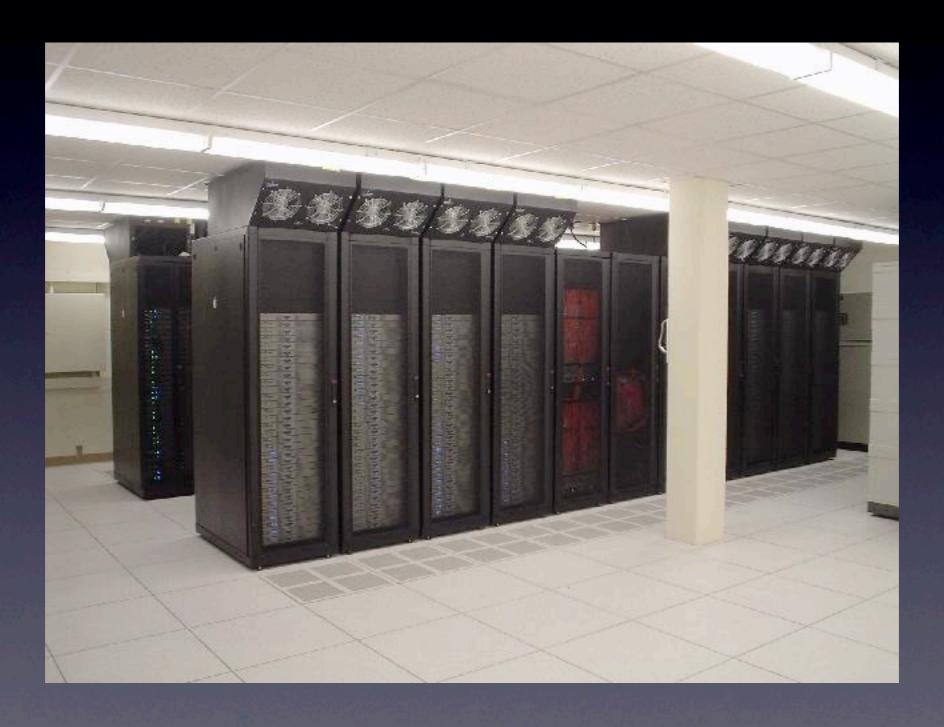
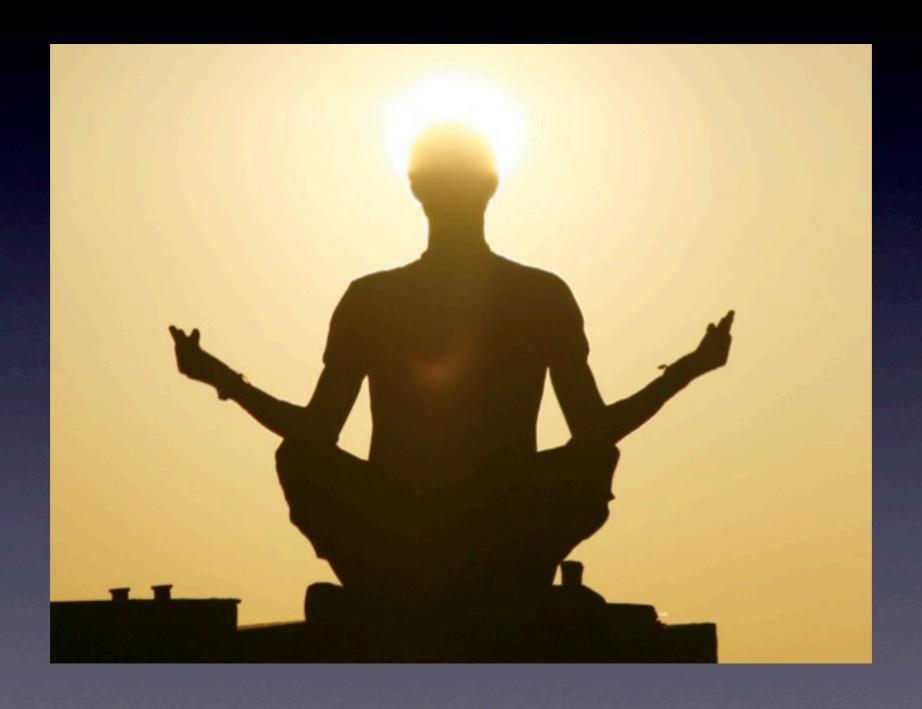
Home Automation

Charles Edge
Director of Technology, 318

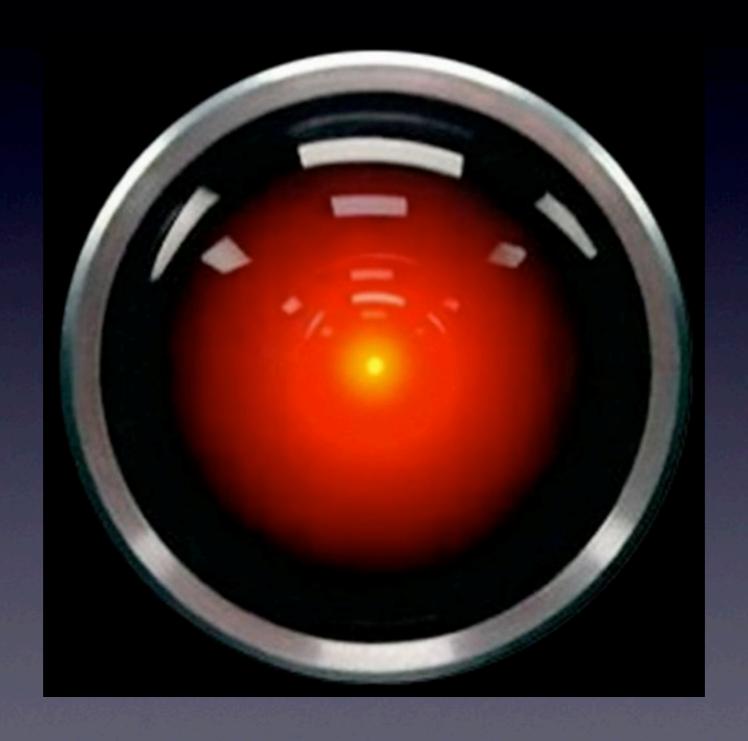
whoami: Server Guy



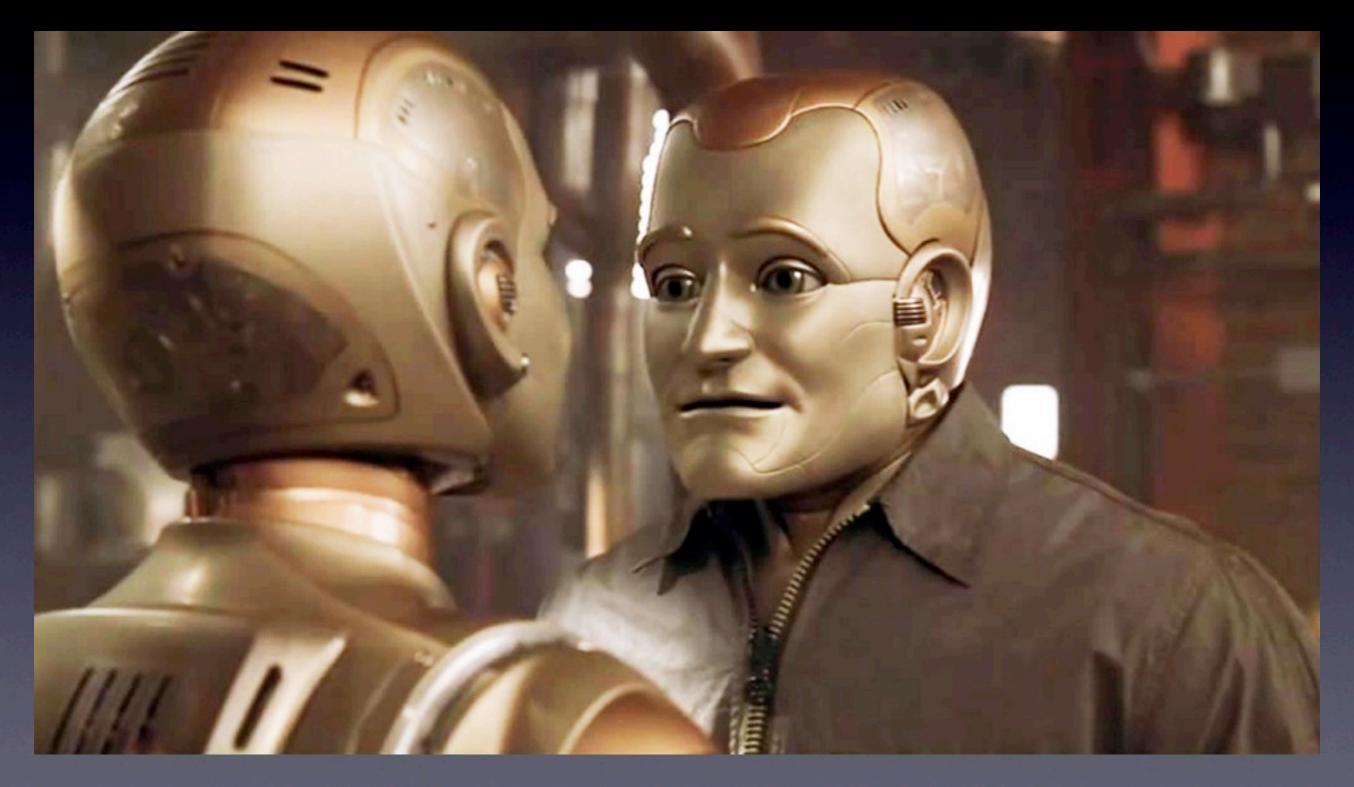
Home Automation



My Dream



Positronic Brain





Some Flair



But Not The Bad Kind



Why?

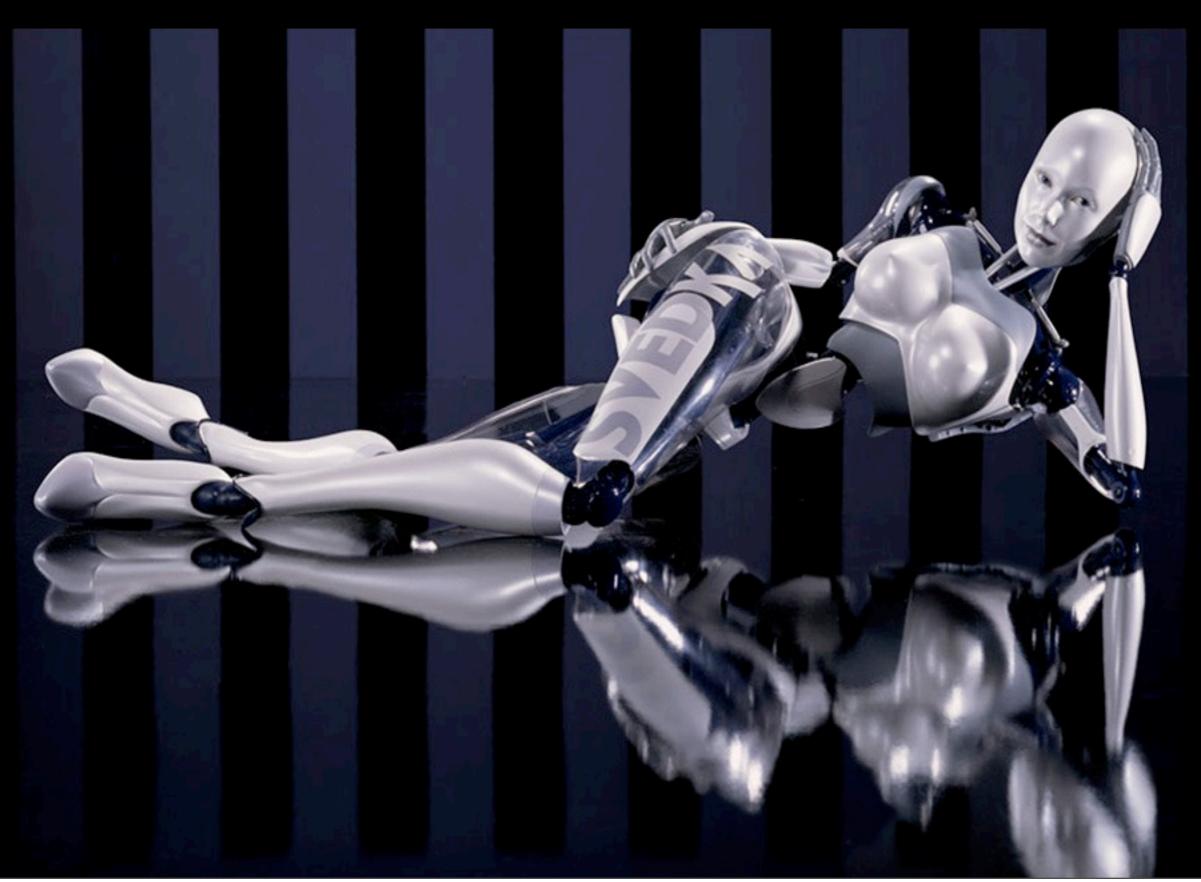


What I Didn't Want



Unrealistic?





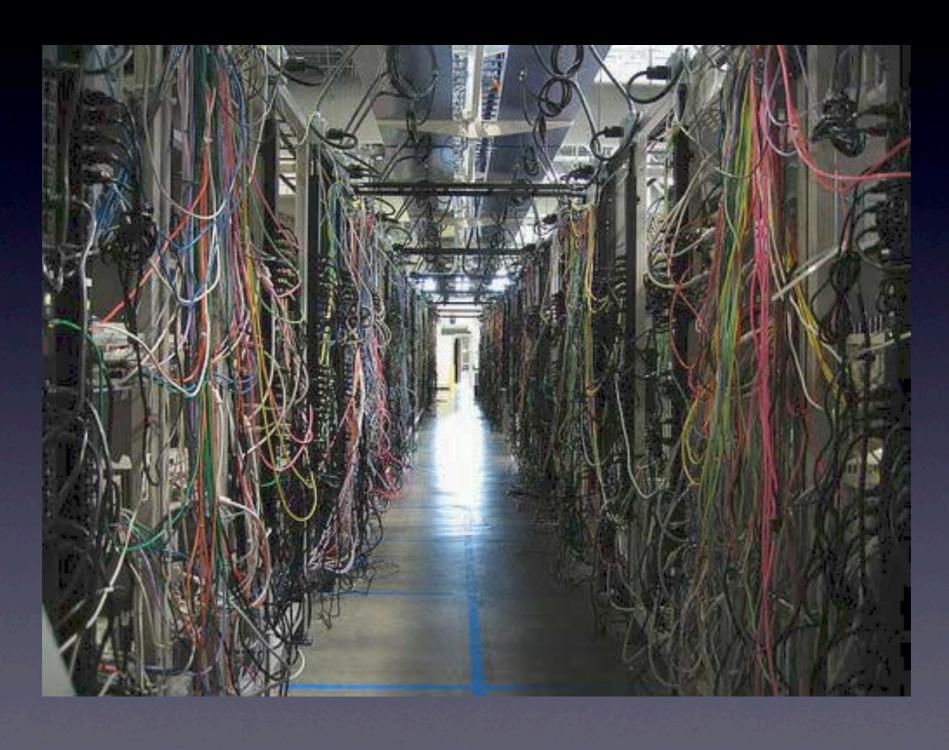
If Rick Moranis Can...



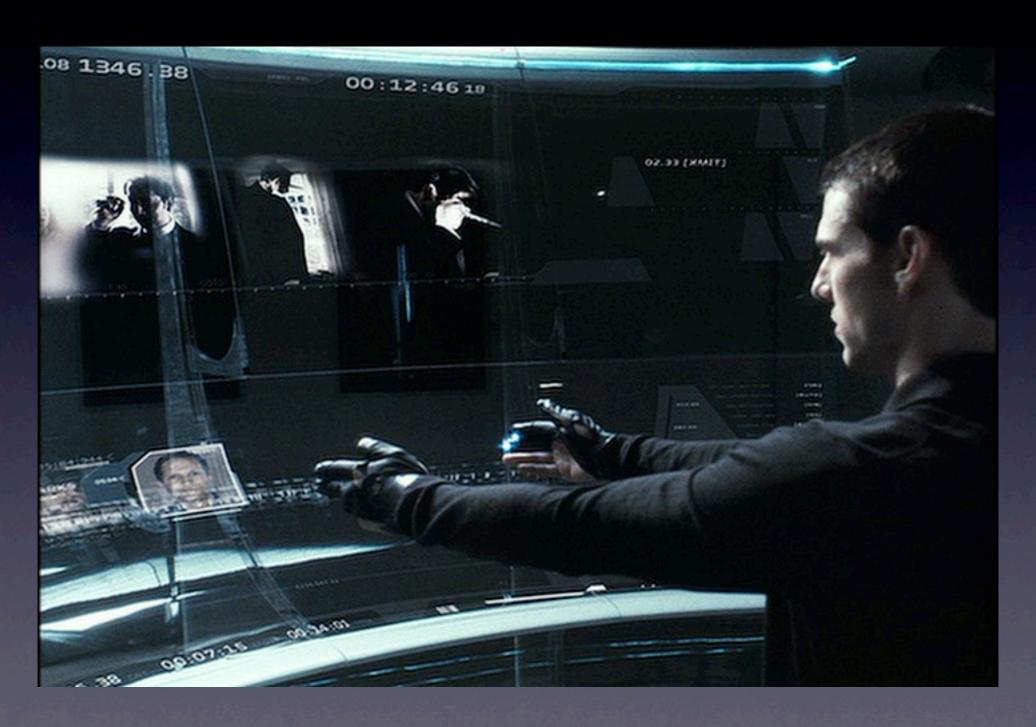
If Rick Moranis Can...



All Wirelessly



Multiple Interfaces...



Movies Lie?!?!



But You Can Do Some Awesome Stuff!

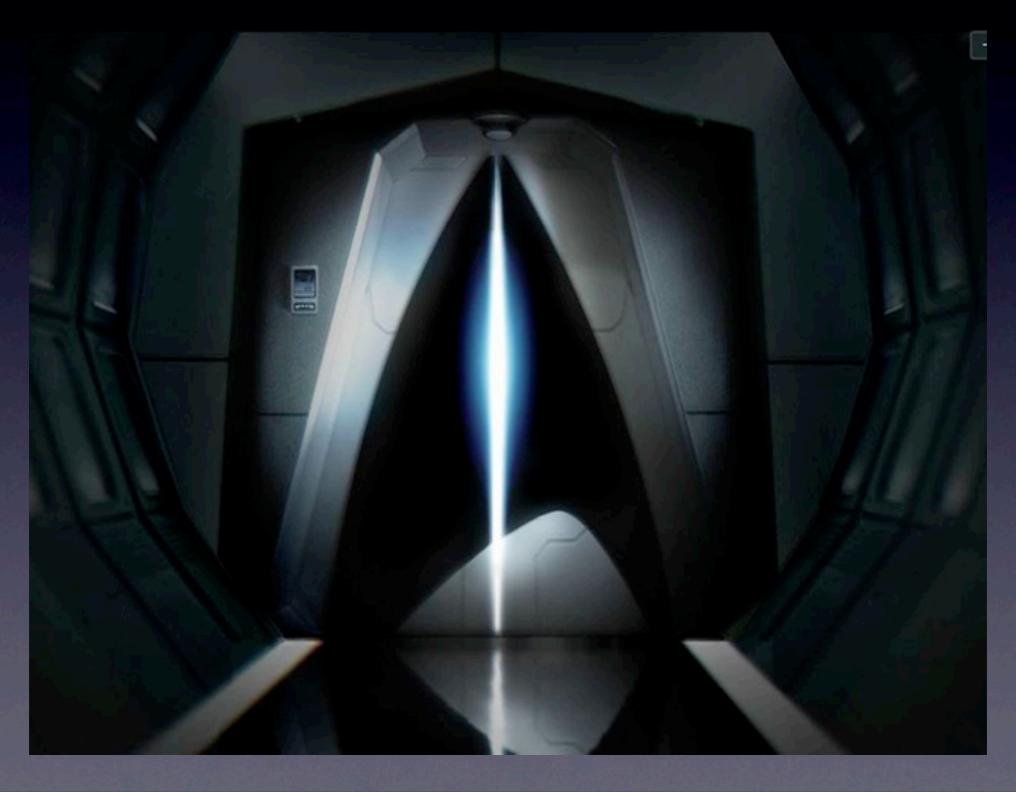
- Automatic Locks
- Motion Sensors
- Climate Control
- Time-based automations
- Control things over the Internet



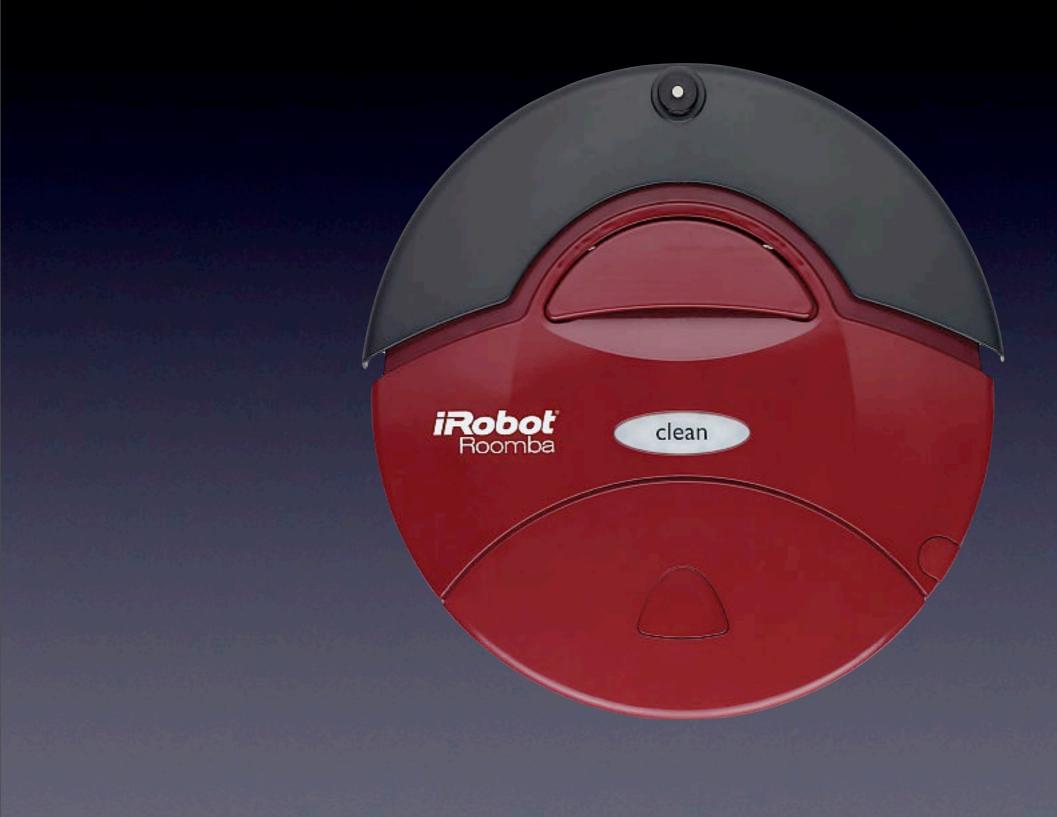
Good For the Environment



Cool



Saves Time

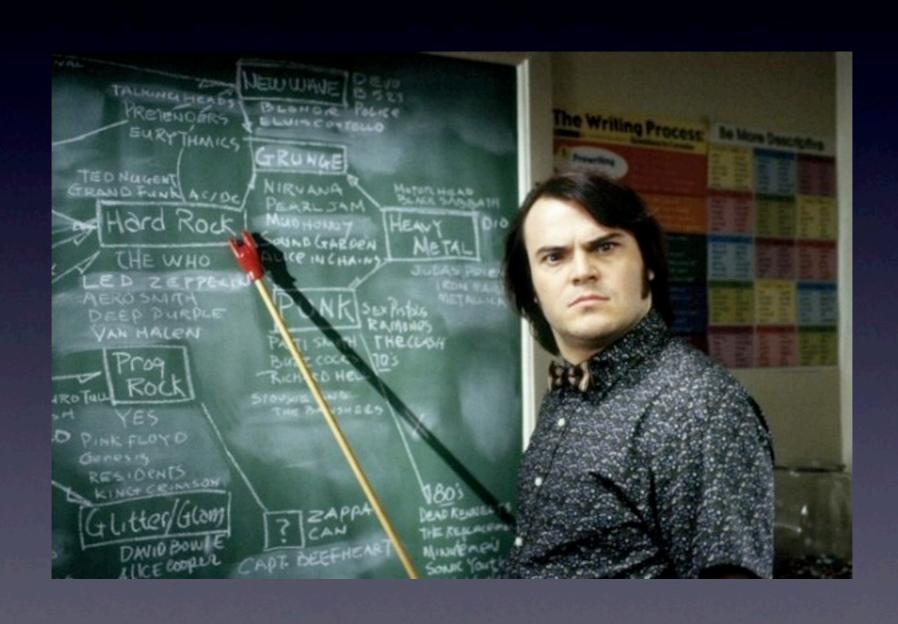


Saves Money





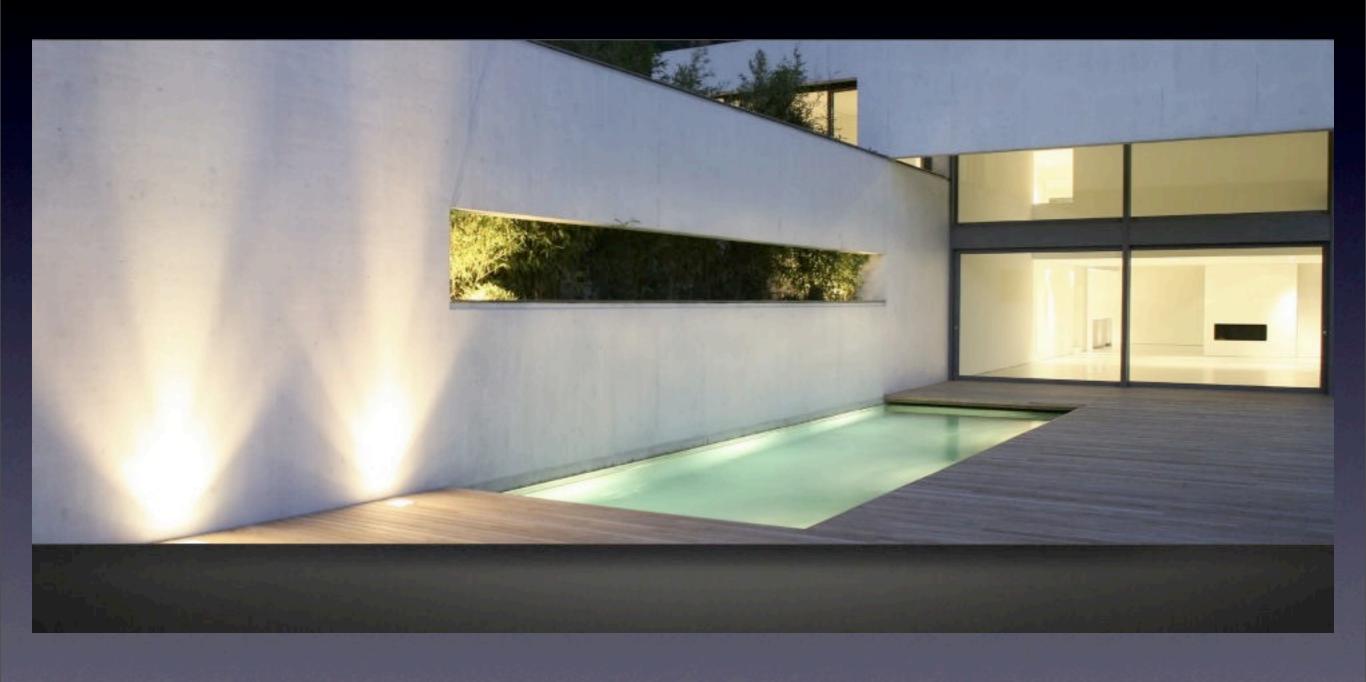
Lessons Learned



Lessons Learned

- Define Scenes
- Pick a protocol
- Pick a vendor
- Buy as much at once
- Management
- Patience

Define Scenes



Protocols

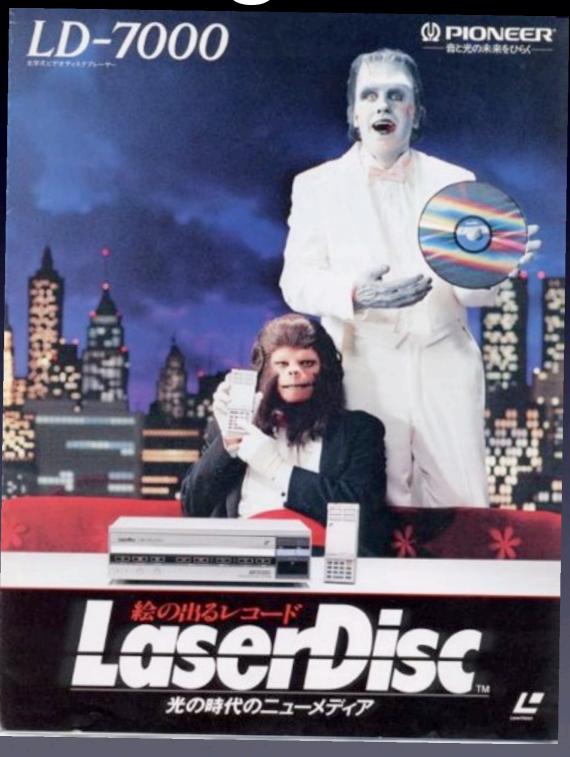
- Z-wave
- Zigbee
- XI0



Zigbee

Good Idea

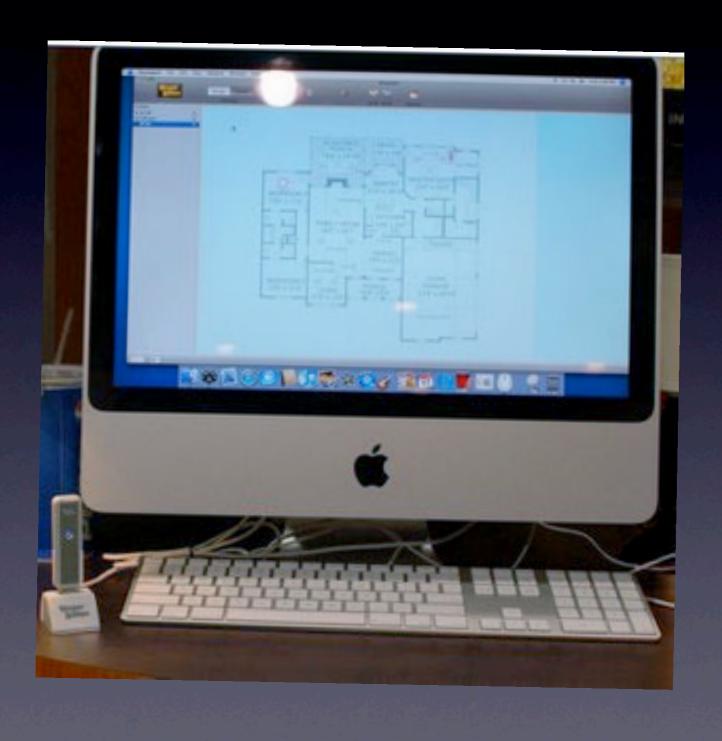
Zigbee



XIO



Z-Wave



Cheap Z-Wave Stuff



Bridging Protocols

- Crestron to Z-Wave
- XI0 to Z-Wave
- Using Adapters on Existing Outlets (ie lamp modules)

Pick a Vendor

- Crestron
- Wayne Dalton
- GE
- HomeSettings
- Etc.

iRobot

Pick a Vendor



Buy It At Once

- Still an immature business
- Controllers don't always support newer equipment
- Older modules can be hard to find
- Lots of luck on eBay

Management

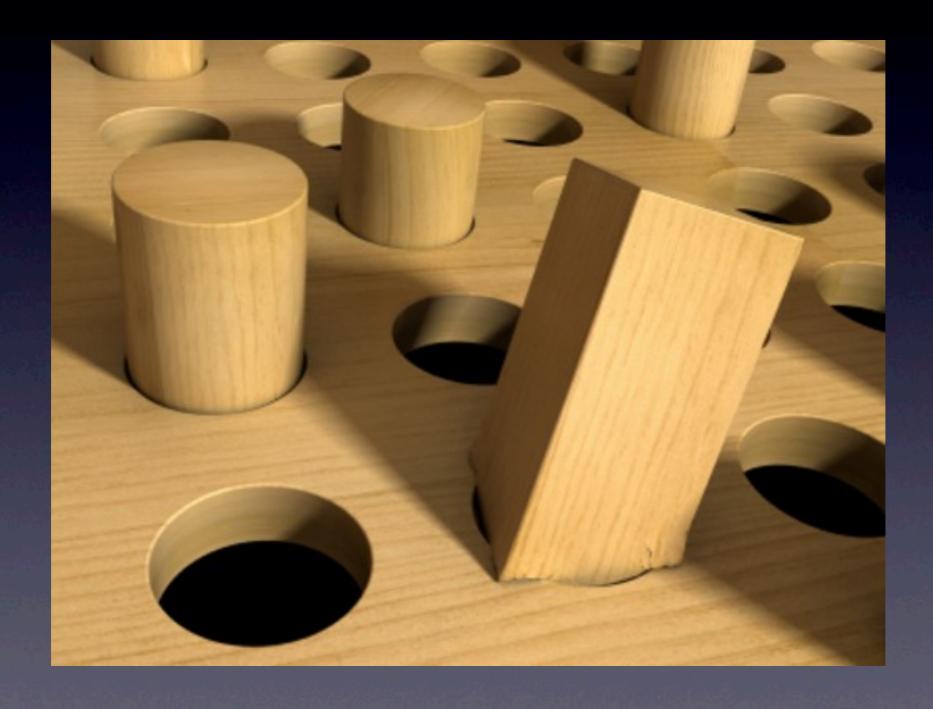




Management



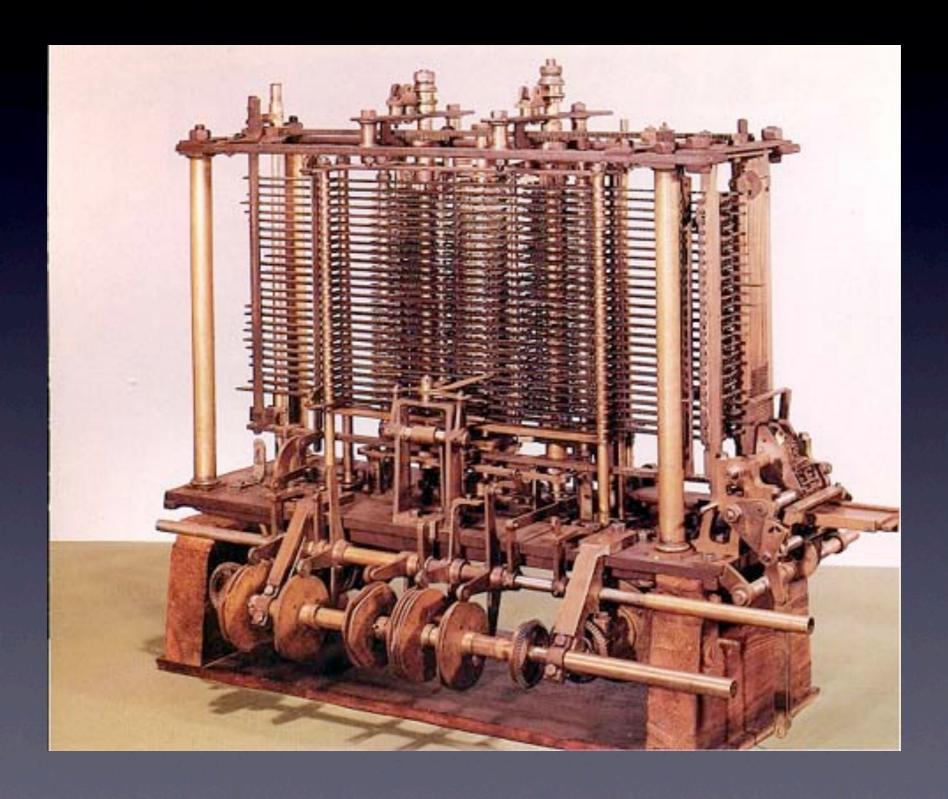
Verify Compatibility



Patience



Hardware



Dimmers

- GE, Wayne Dalton,
 Intermatic
- Schlage
- Make sure to get the right kind!
- Problematic with CFL
- \$40 and up



Garage Door Openers

- Transmitter \$40
- Garage Door Converter \$30
- Or an Opener for \$200



Door Locks

- Schlage and Kwikset
- Z-Wave, but LiNK required
- Key and keypad override
- Get an email when the kids get home
- \$190-\$250 each



Power Outlets

- Usually around \$30-\$50 each
- GE, Intermatic
- Usually one controlled port



Power Strips

- Home Manageables was \$50
- BuLogics ?
- :(



Appliance Modules

- Leviton
- Wayne Dalton
- Intermatic

GE through RadioShack as low as \$15 each



Motion Sensors

- Hawking
- Wayne Dalton
- Schlage
- Intermatic
- Schlage
- \$50-\$80 each



Other Sensors

- Aeon Door and Window
- HomeSeer Motion/Temperature
- FortrezZ Water Sensor/Shut-off
- Everspring Smoke Sensor (door, etc)





Thermostats

- Trane (Schlage)
- Wayne Dalton
- InTouch
- SilverPac
- Ecobee
- \$80 and up

Thermostats



Sirens and Alarms



Remote Controls

- Controllers as remotes
- Specific to vendors
- Separate from desktop
- Universals aren't so uni
- \$25 to \$8,000
- iOS = Subscription



Cameras

- Schlage
- Micasa Verde
- Hawking
- \$130 to \$3,500









Open Your Blinds

• DBMZ - ~\$135

RS Scene - ? (Dealer Only)

• Techniku - ? (Dealer Only)

Likely need help



Controllers/Services



ZigBee and XIO

- Control4 ZigBee
- MiOS Z-Wave, XI0& ZigBee

Scripting

- Tricklestar pyzwave
 - http://www.beekerstudios.com/ sites/default/files/TrickleStar %20Miniserver%20API%20Docs %20v250.pdf
- Aeon

Not Z-Wave But Worth a Mention

Cleaning Helpers

- iRobot Roomba
- Mop iRobot Scooba
- Cut the Grass

Cleaning Helpers

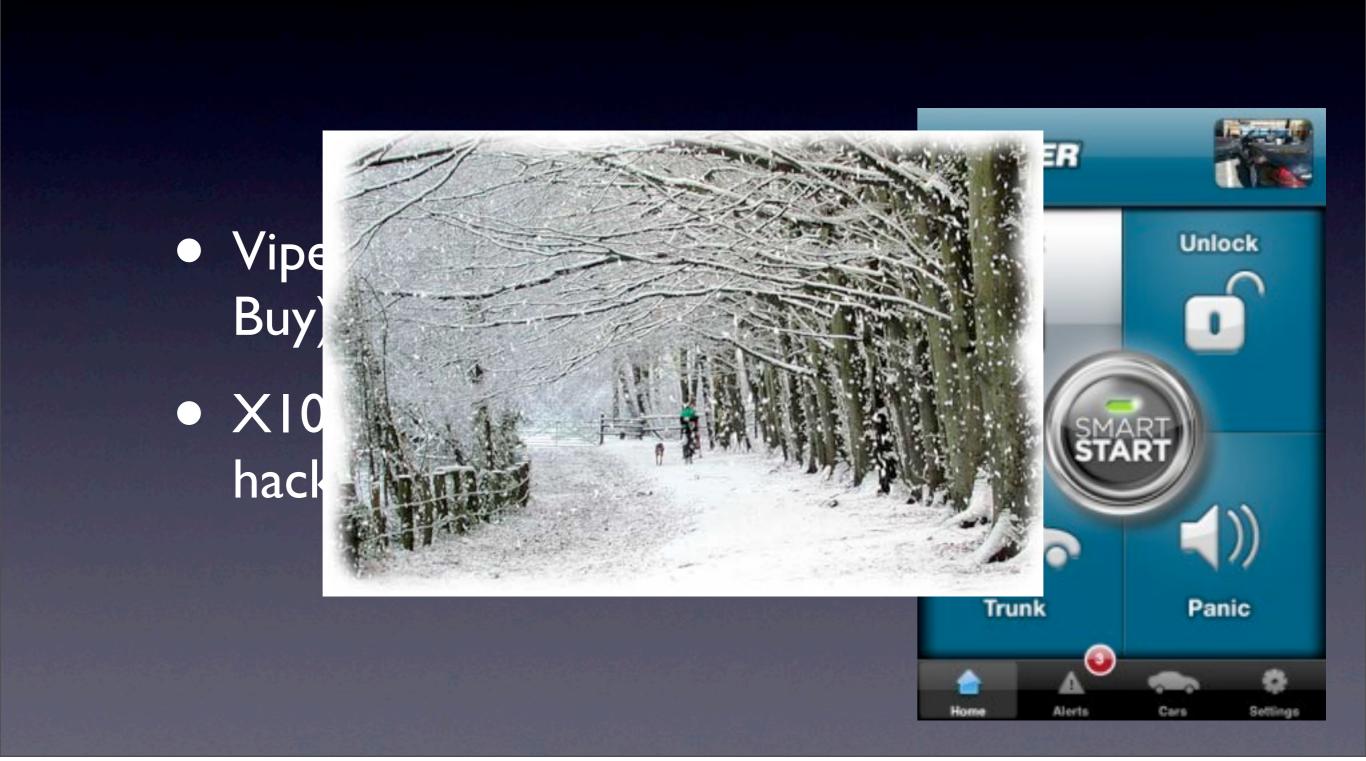


Car Starters

- Viper FreshStart (at Best Buy) - \$500
- XIO or Z-Wave -> Solenoid hacking - \$100ish



Car Starters



DVRs

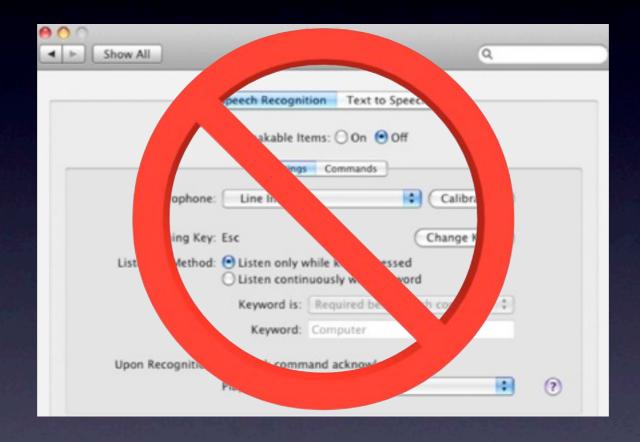
- VCRs with Clocks
- Tivo
- DirecTV DVR Control
- Basically everyone

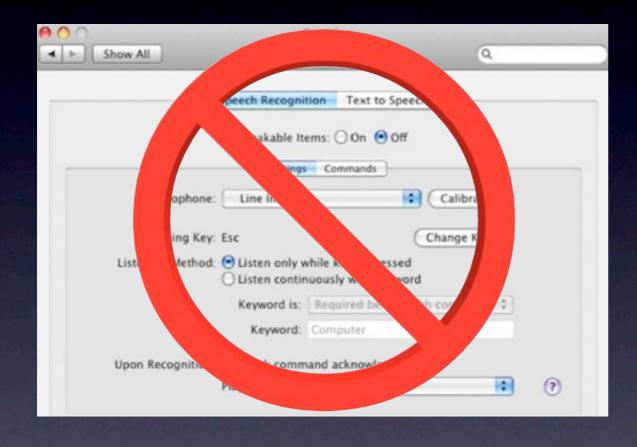


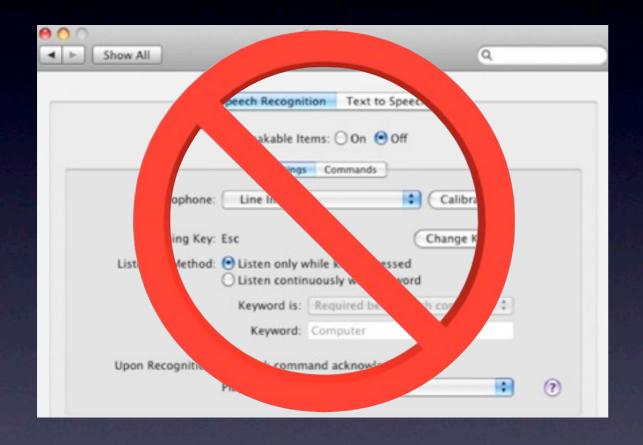


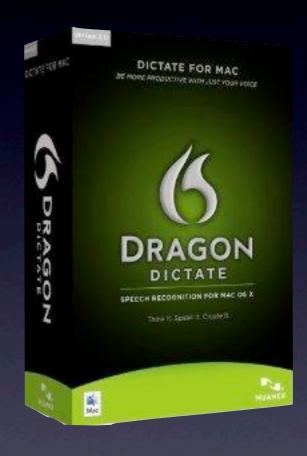






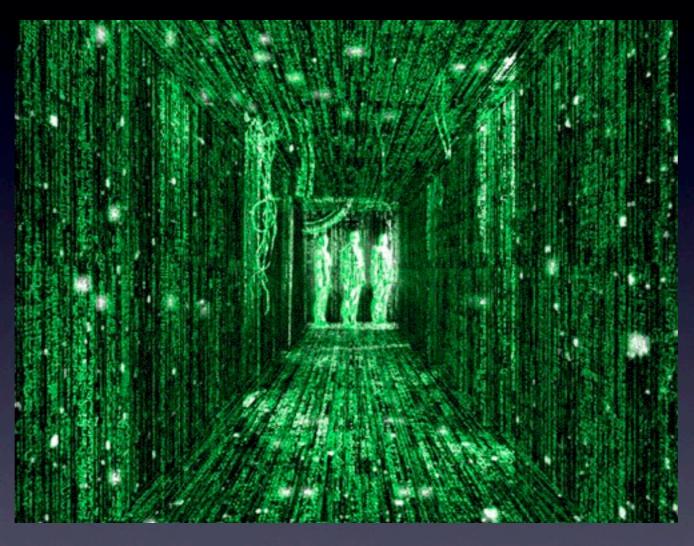








Full Integration



Is It Too Soon?

- Home Depot, Circuit City & Radio Shack
- Wal-Mart, Best Buy and Target?
- But, before you can have any successfull revolution...

