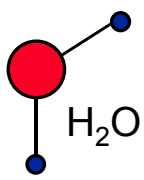
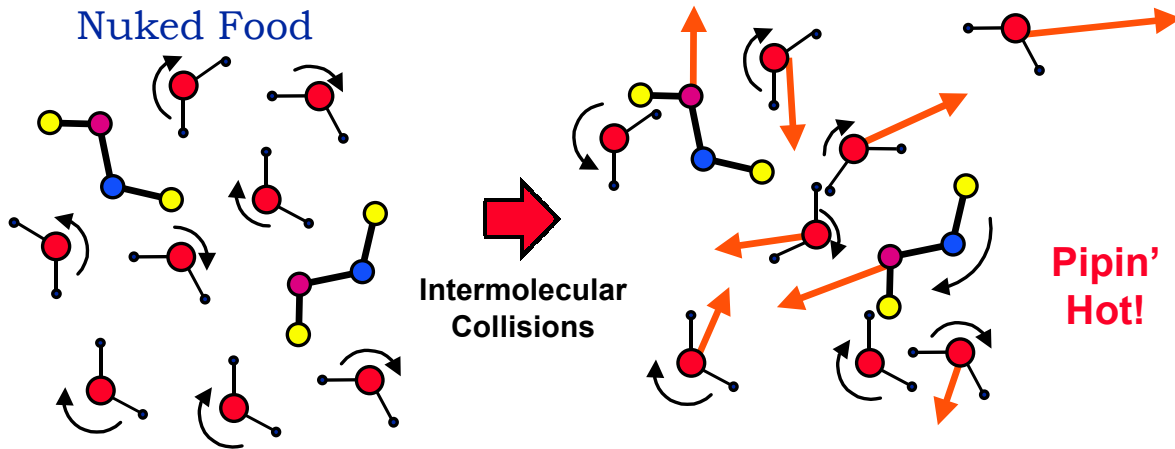


How Microwave Ovens Work!



Microwave ovens specifically target water molecules!

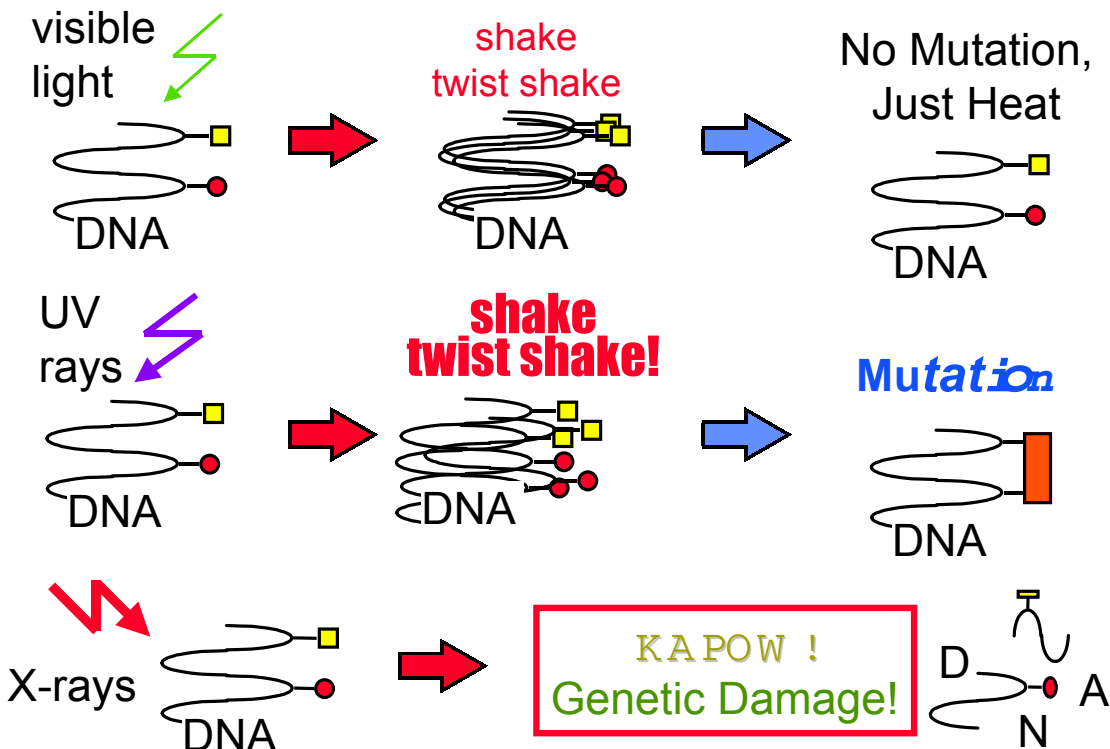
- Microwaves are too weak to excite electrons.
- Microwaves are even too weak to excite vibrations.
- But in microwave ovens they excite H₂O rotations!



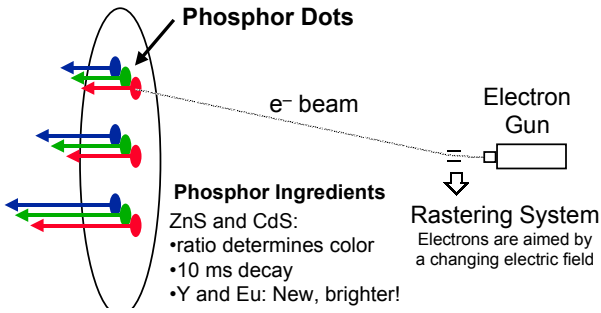
Microwaves specifically excite H₂O rotations...

but collisions quickly convert rotations into molecular motion: **HEAT!**

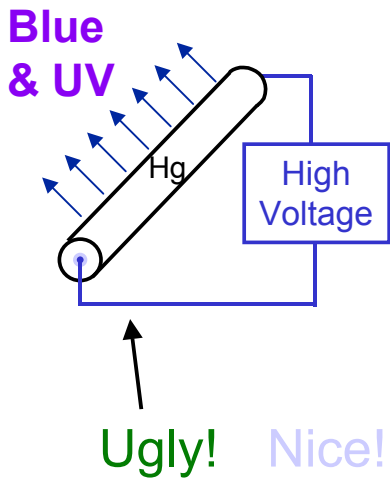
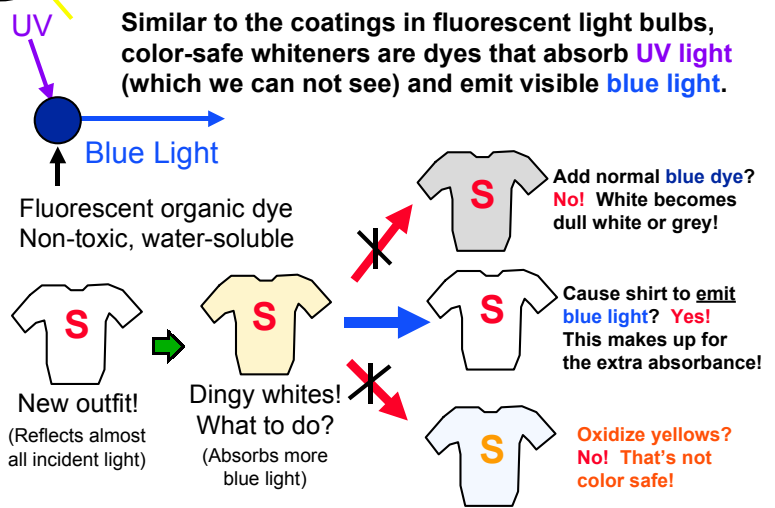
Electromagnetic Waves and Mutation



How a Color TV Screen Works



Color-Safe Whitening Agents

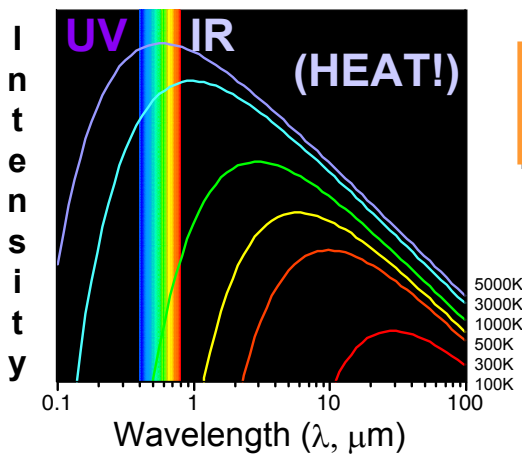
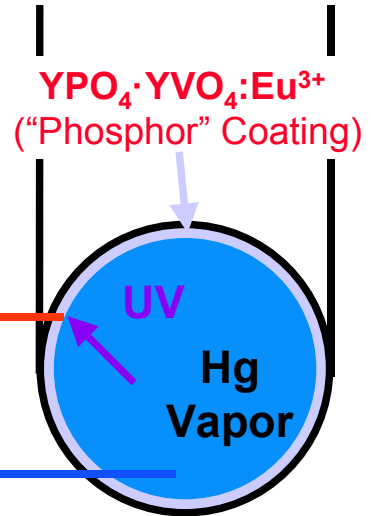


Lighting

Fluorescent

"Warm" White Light

Red-Orange + Blue



Incandescent

W(tungsten) filament at 2500K

