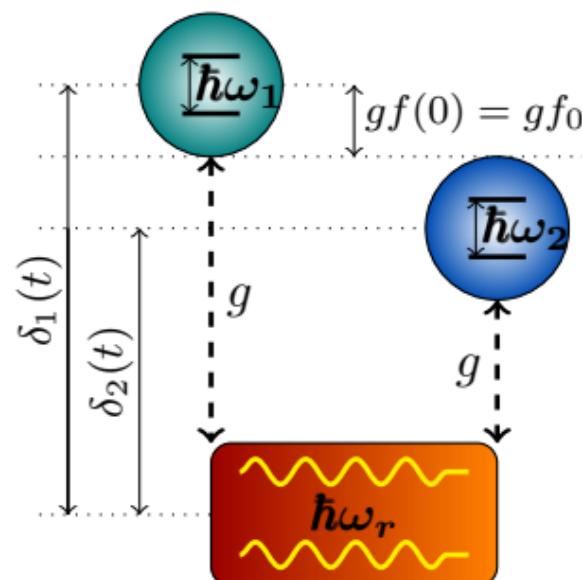


# Initial configuration

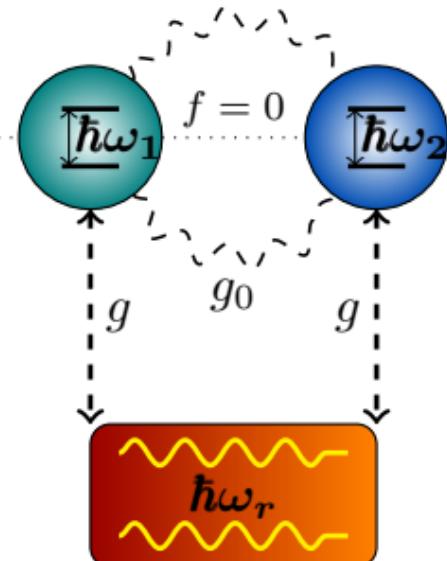
# Final configuration

$$|e(0)\rangle = |1\downarrow\uparrow\rangle$$

$$|e(t_f)\rangle = \frac{|1\uparrow\downarrow\rangle + |1\downarrow\uparrow\rangle}{\sqrt{2}}$$



$t = 0$



$t = t_f$