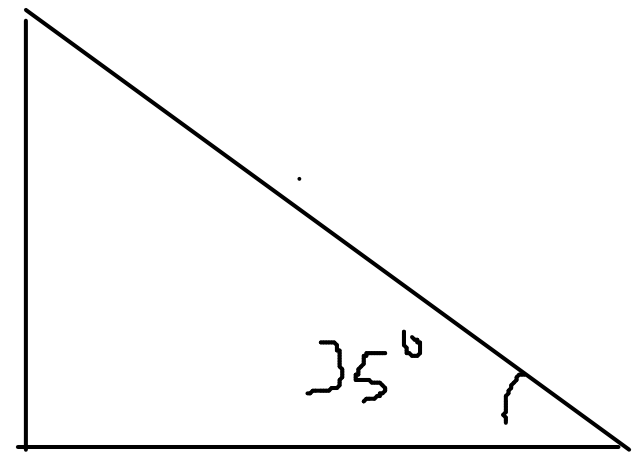
$\mu_s = 0,02$

$m = 10\,kg$



$F_p = m \cdot g =$

$= 10\,kg \cdot 9,8\,N/kg = 98\,N$

$F_{//} = F_p \sin(\alpha) = 98\,N \sin(35°)$

$\simeq 51\,N$

$F_\perp = F_p \cos(\alpha) = 98\,N \cos(35°) \simeq 80\,N$

$F_s = F_\perp \cdot \mu_s = 80\,N \cdot 0,02 = 1,6\,N$

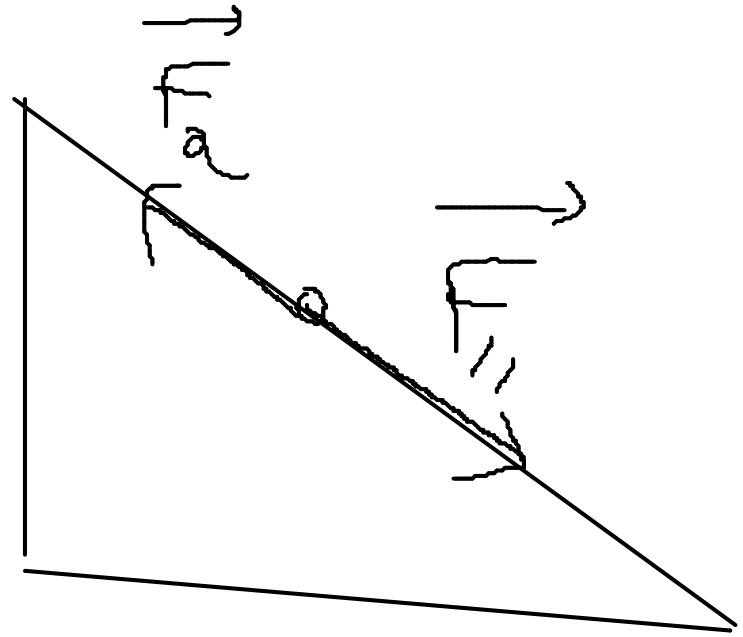
$\mu_{12} = 0{,}8$

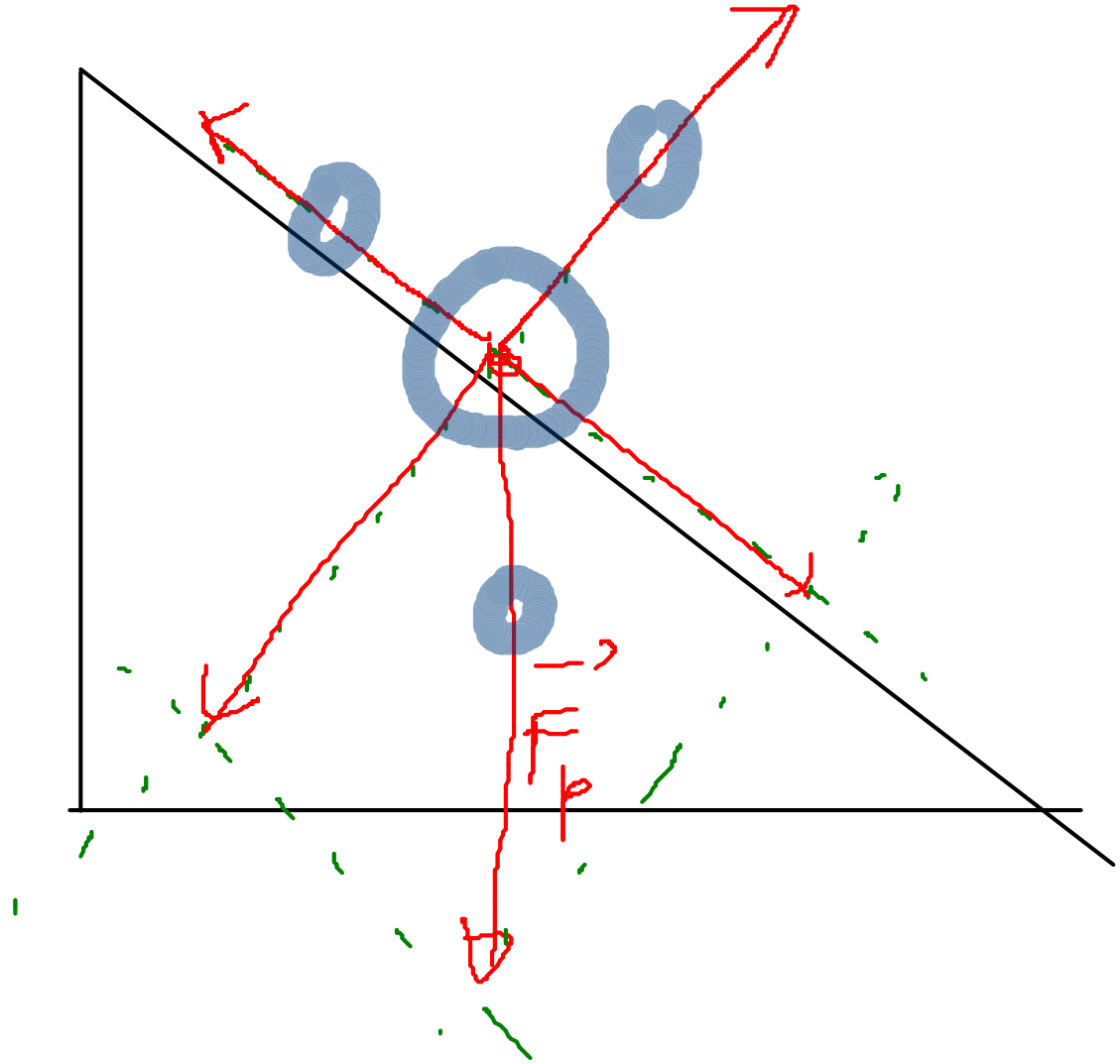
$F_p \approx 98\ N$

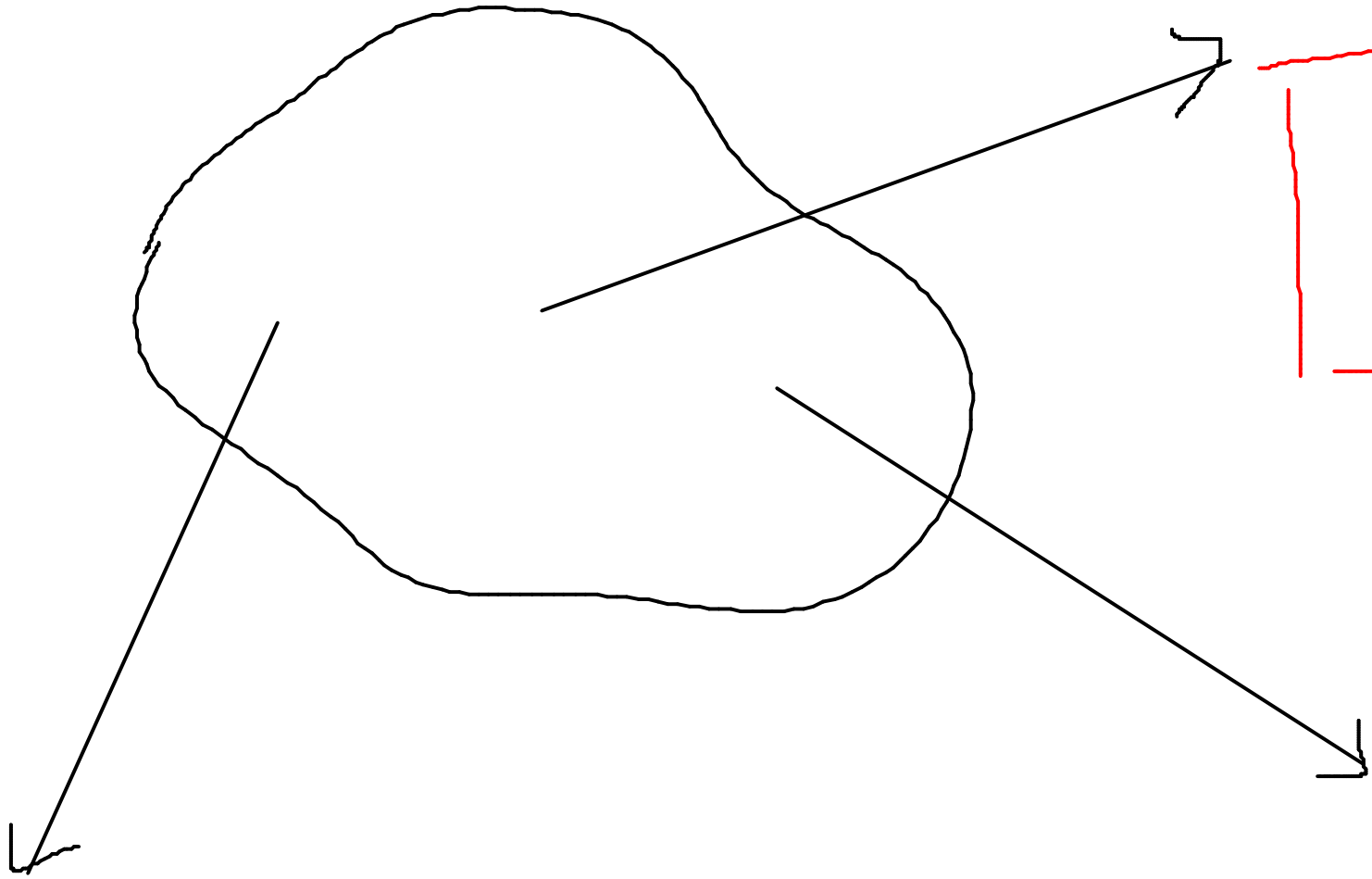
$F_\perp = 80\ N$

$F_{//} = 51\ N$

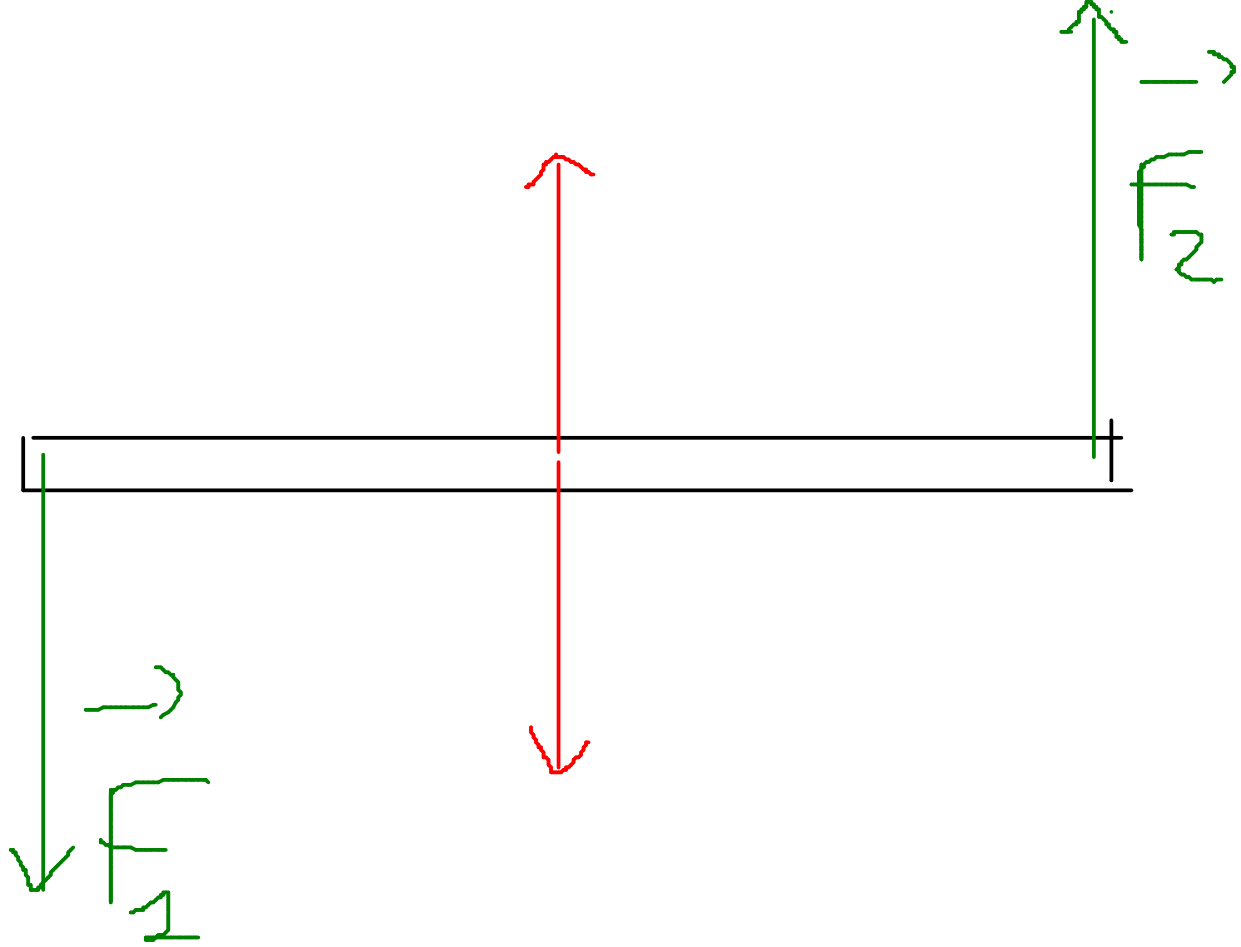
$F_{12} = F_\perp \cdot \mu_{12} = 80\ N \cdot 0{,}8 \approx 64\ N$







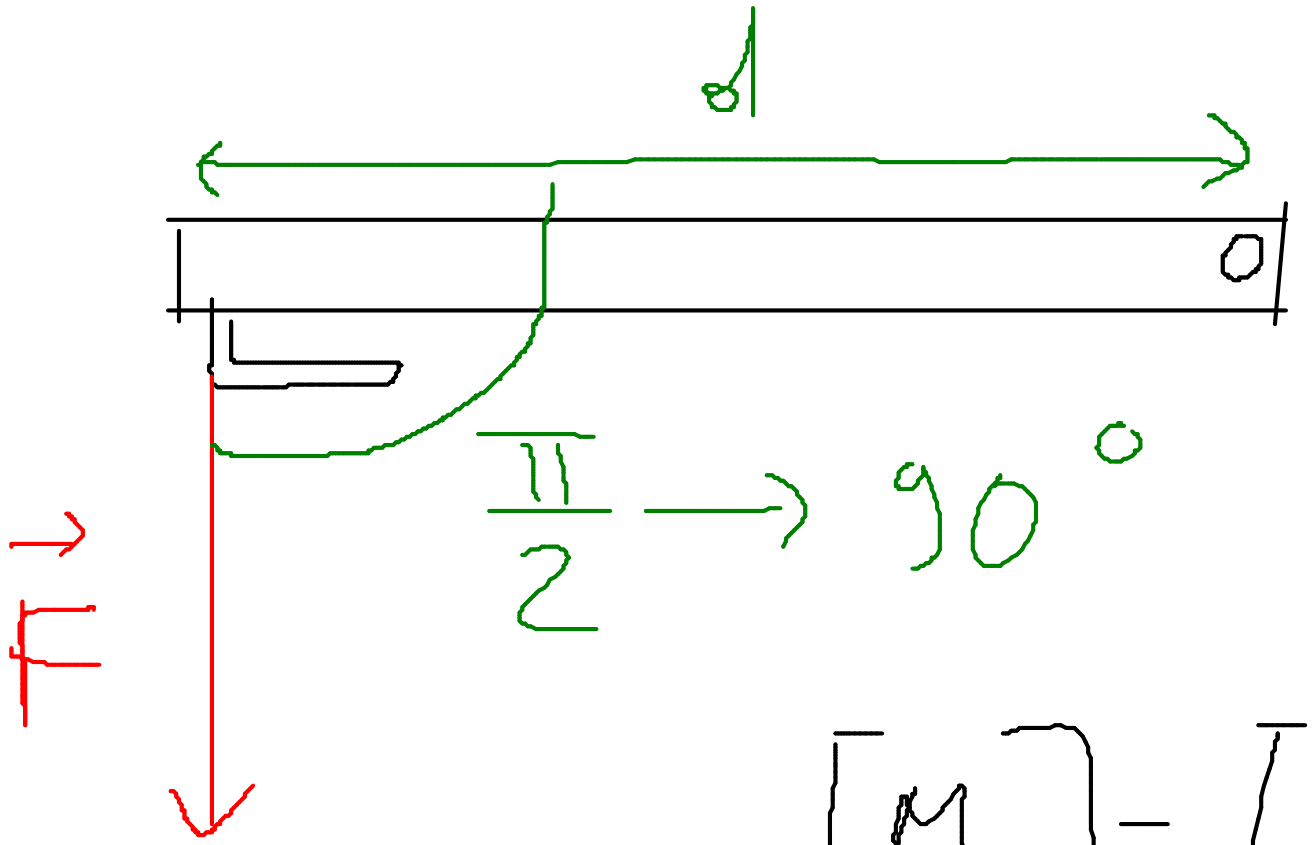
$$\vec{F}_1 + \vec{F}_2 + \dots + \vec{F}_n = 0$$



$$\vec{F}_1 = -\vec{F}_2$$

$$F_1 = F_2$$

$$\vec{F}_1 + \vec{F}_2 = 0$$



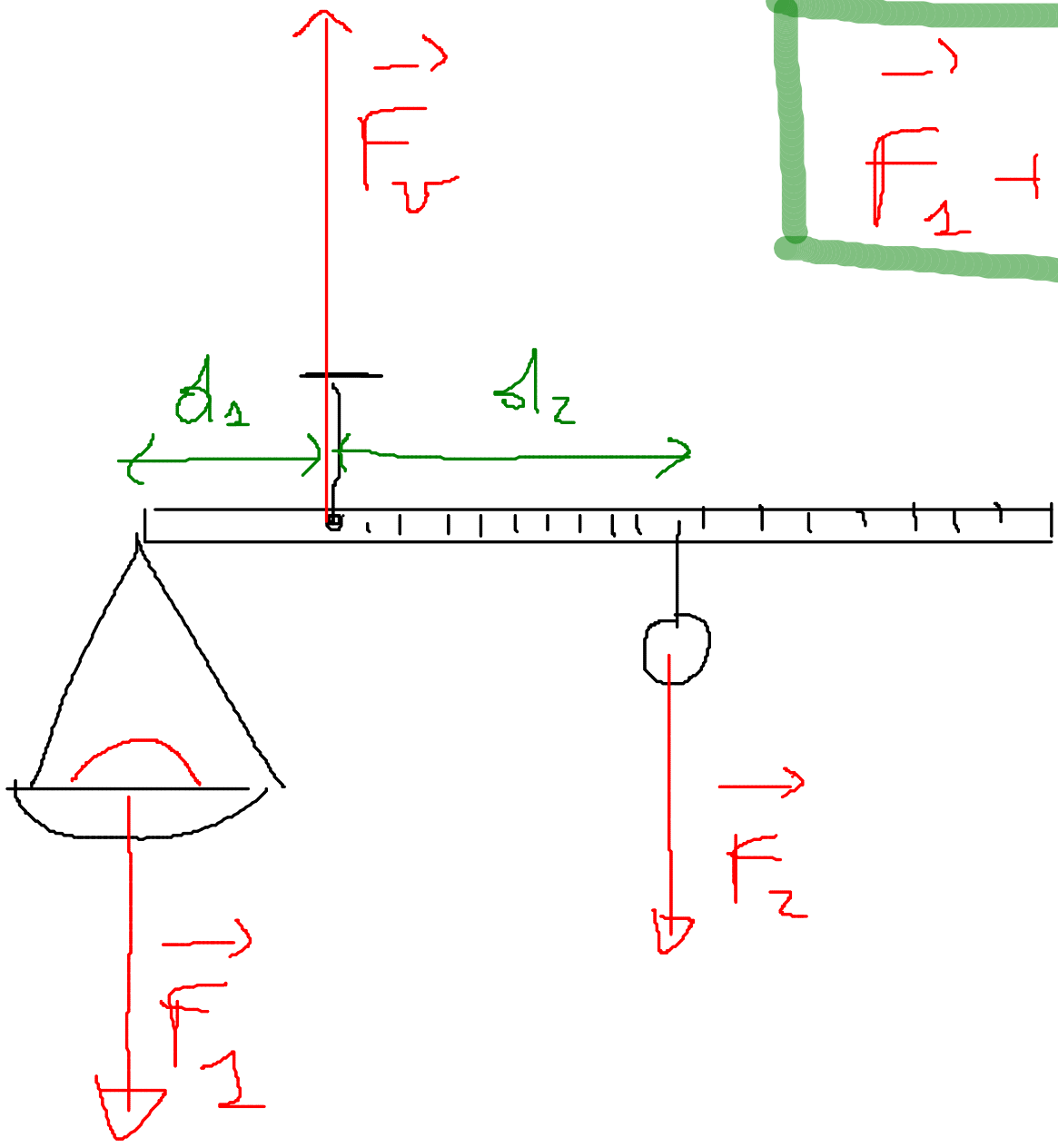
$$\frac{\pi}{2} \rightarrow 90^\circ$$

$$M = F \cdot d$$

$$[M] = [F \cdot l]$$

$$\rightarrow N \cdot m$$

$$\vec{F}_1 + \vec{F}_2 + \vec{F}_v = 0$$



$$F_1 d_1 = F_2 d_2$$

$$M_1 \qquad M_2$$

$F_1 = ?$

$m_1 = 10\,kg$

$d_1 = 10\,cm$

$F_2 = 20\,N$

$d_2 = ?$

$M_1 = M_2$

$\downarrow$

$F_1 d_1 = F_2 d_1$

$d_2 = \frac{F_1}{F_2} d_1 = d_1 \frac{m_1 g}{F_2}$

$F_1 = m_1 g$

$$s_2 = 10\,cm \cdot \frac{10\,kg \cdot 9{,}8\,\frac{N}{kg}}{20\,N} = 10\,cm \cdot \frac{98}{20}$$

$$= 49\,cm$$

$$M_1 = M_2 = 20\,N \cdot 49\,cm$$

$$= 20 \cdot 0{,}49\,N \cdot m = \ldots$$

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