

Projectile properties investigation summary.

Max. range (horizontal displacement) at angle:

45°

Same range for complementary angles θ_1 & θ_2 :

$\theta_1 + \theta_2 = 90^\circ$

Max. time in the air for angle :

85°

Range of the projectile **does not** depend on mass.

Air resistance does:

decrease {

- range
- time in the air
- max. height

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$$\Delta X = \frac{V_0^2 \sin(2\theta)}{g}$$

RANGE AT ANY ANGLE.

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