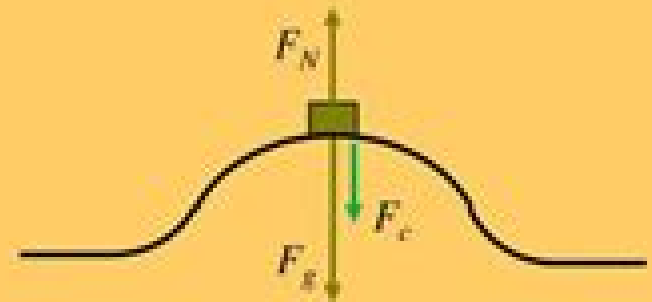


# Hill Top

- A car going over a hill follows a vertical curve.
- There are only two forces acting on the moving car.
  - Gravity
  - Normal force
- If the normal force is zero the car has lost contact with the ground.



$$-F_c = F_N - F_g$$

$$mv^2 / r = -F_N + mg$$

$$v = \sqrt{\frac{-F_N r}{m} + gr}$$

$$v_{\max} = \sqrt{gr}$$

# Going Over The Hill Slowly

**Bret Harte**



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