


# Endogeneity A4.

- ① Omitted Variable ↙ ☆
- ② Simultaneity bias ↙
- ③ Measurement error ↘

## IV

$x \rightarrow y ?$

$x^{\text{变}} \rightarrow \varepsilon^{\text{变}} \rightarrow y^{\text{变}}$



IV:  $z^{\text{变}} \rightarrow x^{\text{变}}$   
       $\quad \quad \quad \times \rightarrow \varepsilon^{\text{变}}$