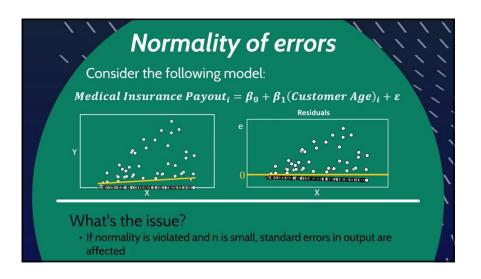
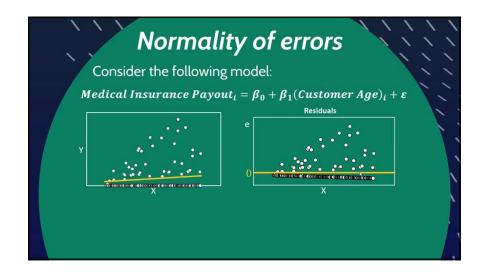
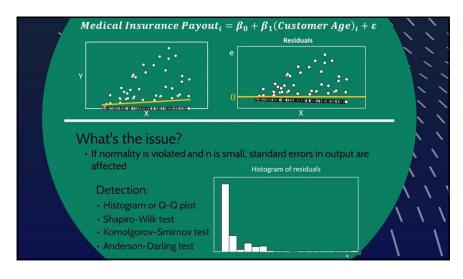
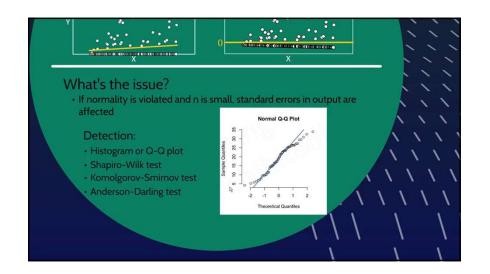


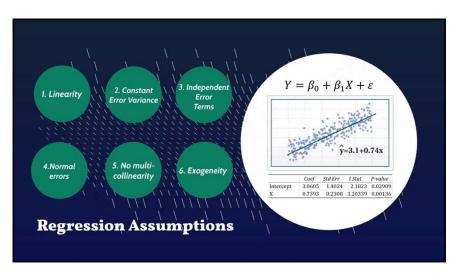
Normality of errors Consider the following model: Medical Insurance Payout_i = $\beta_0 + \beta_1(Customer\ Age)_i + \varepsilon$

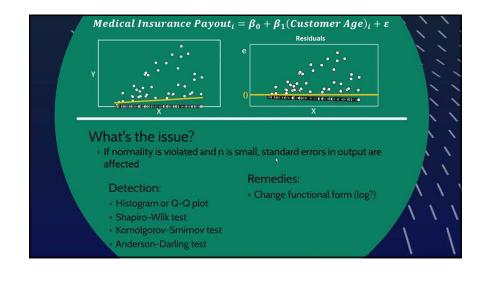














```
No multicollinearity

Consider the following model:

Motor\ Accidents_i = eta_0 + eta_1(Num\ cars)_i + eta_2(Num\ residents)_i + arepsilon
i = suburb\ 1,2,3 \dots
```

```
No multicollinearity

Consider the following model:

Motor\ Accidents_i = \beta_0 + \beta_1(Num\ cars)_i + \beta_2(Num\ residents)_i + \varepsilon
i = suburb\ 1,2,3\ ...

Multi-collinearity occurs where the X variables are themselves related

What's the issue?

• Coefficients and standard errors of affected variables are unreliable.
```

