

Two-Sample Z Test for Proportions

Verified R analysis transcript

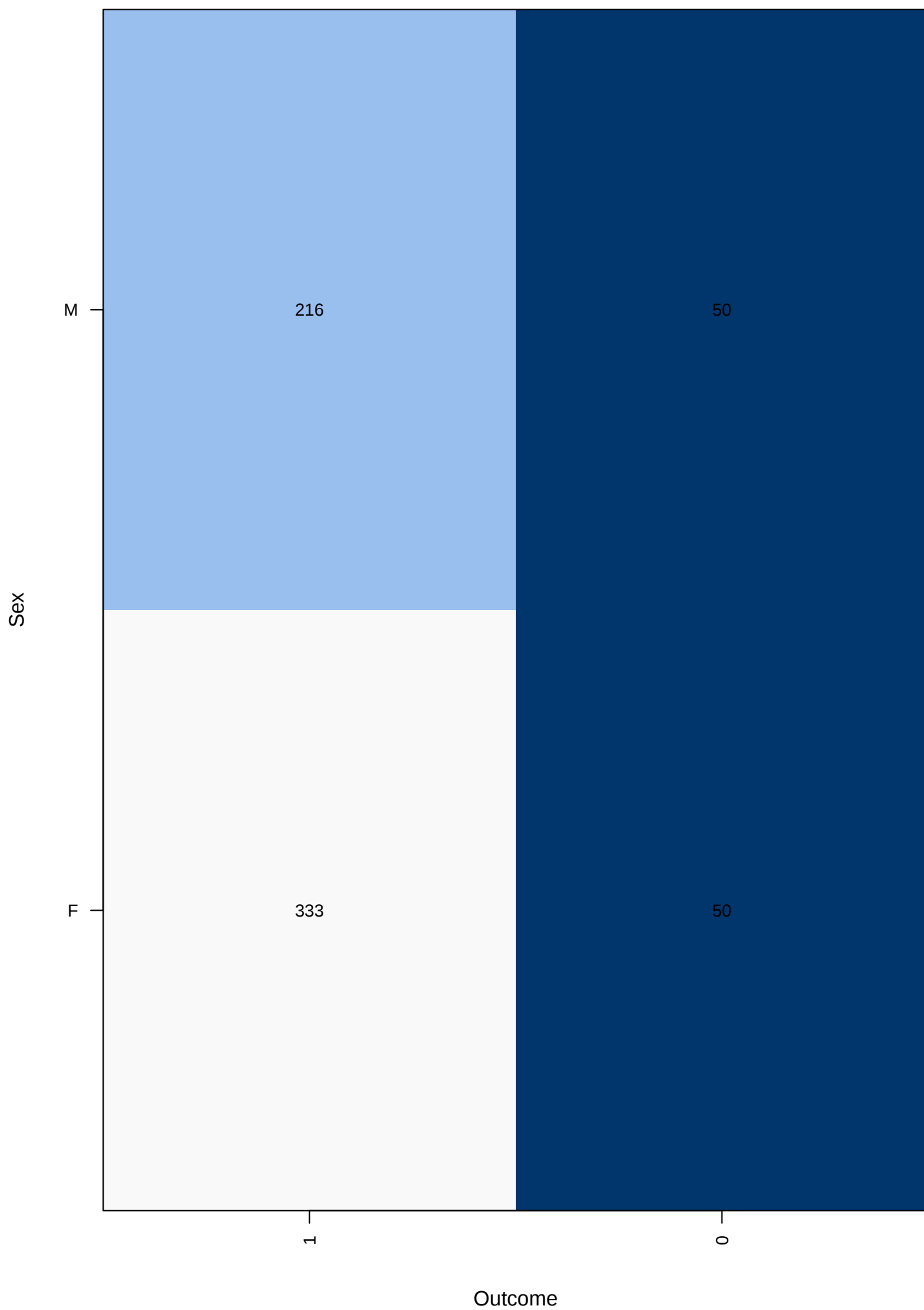
Two-sample z test compares male and female final-pass proportions.

The null test uses the pooled proportion standard error; the difference interval uses the unpooled standard error.

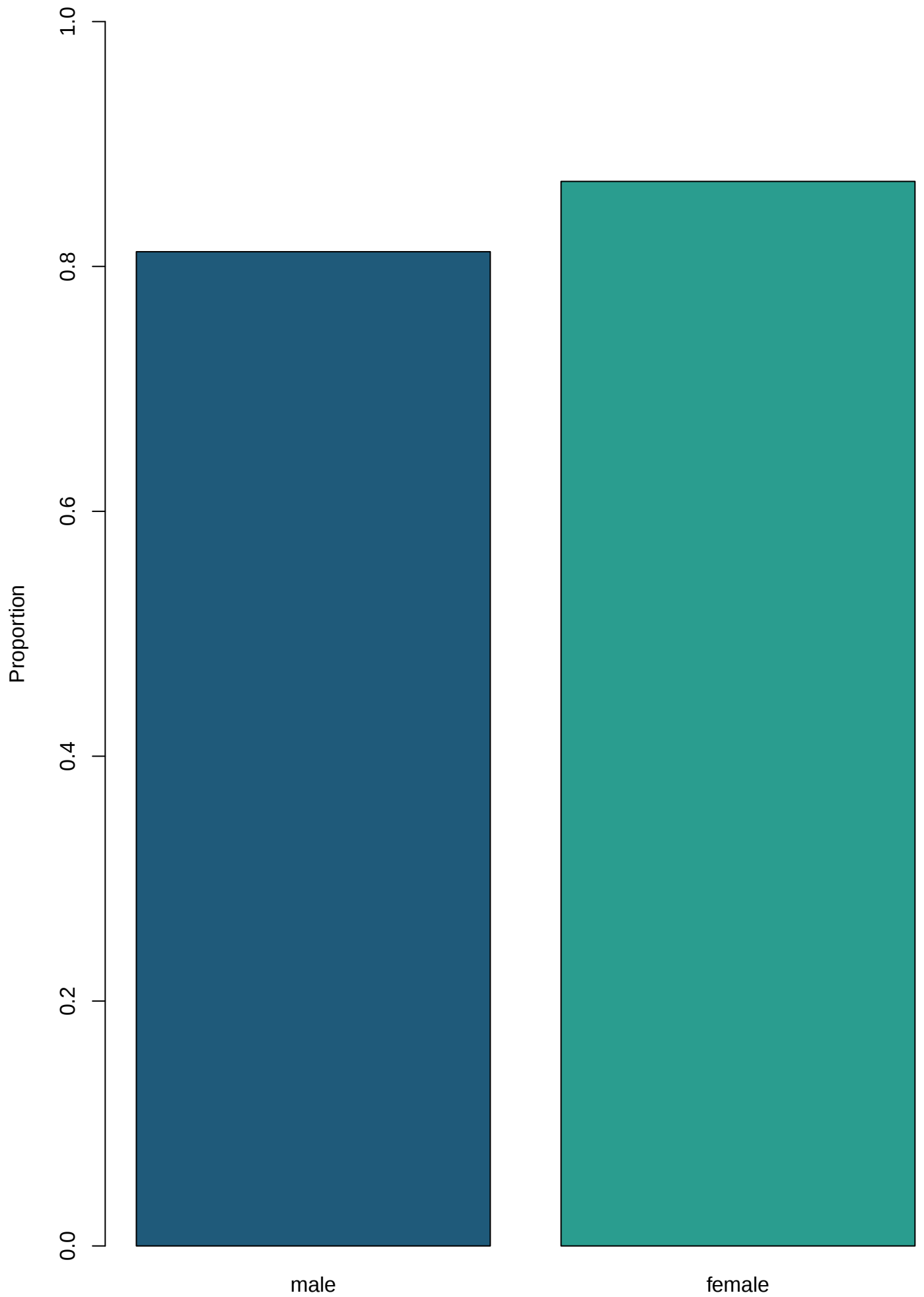
Male $p = 0.8120300752$; female $p = 0.8694516971$; $z = -1.992745499$; two-sided $p = 0.04628932238$.

Difference = -0.05742162194 ; pooled SE = 0.02881533139 ; unpooled SE = 0.02949886509 .

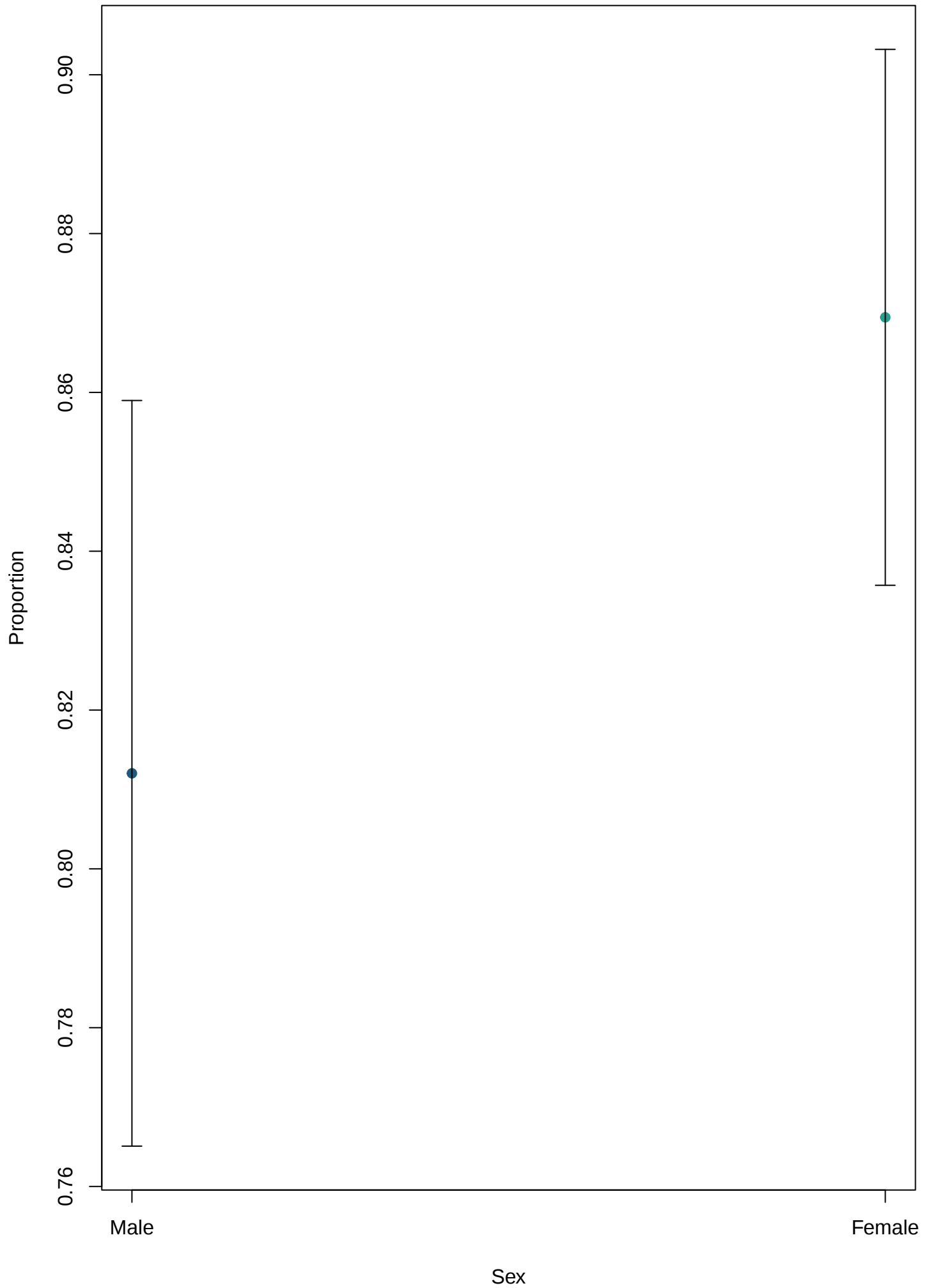
Sex by final-pass outcome



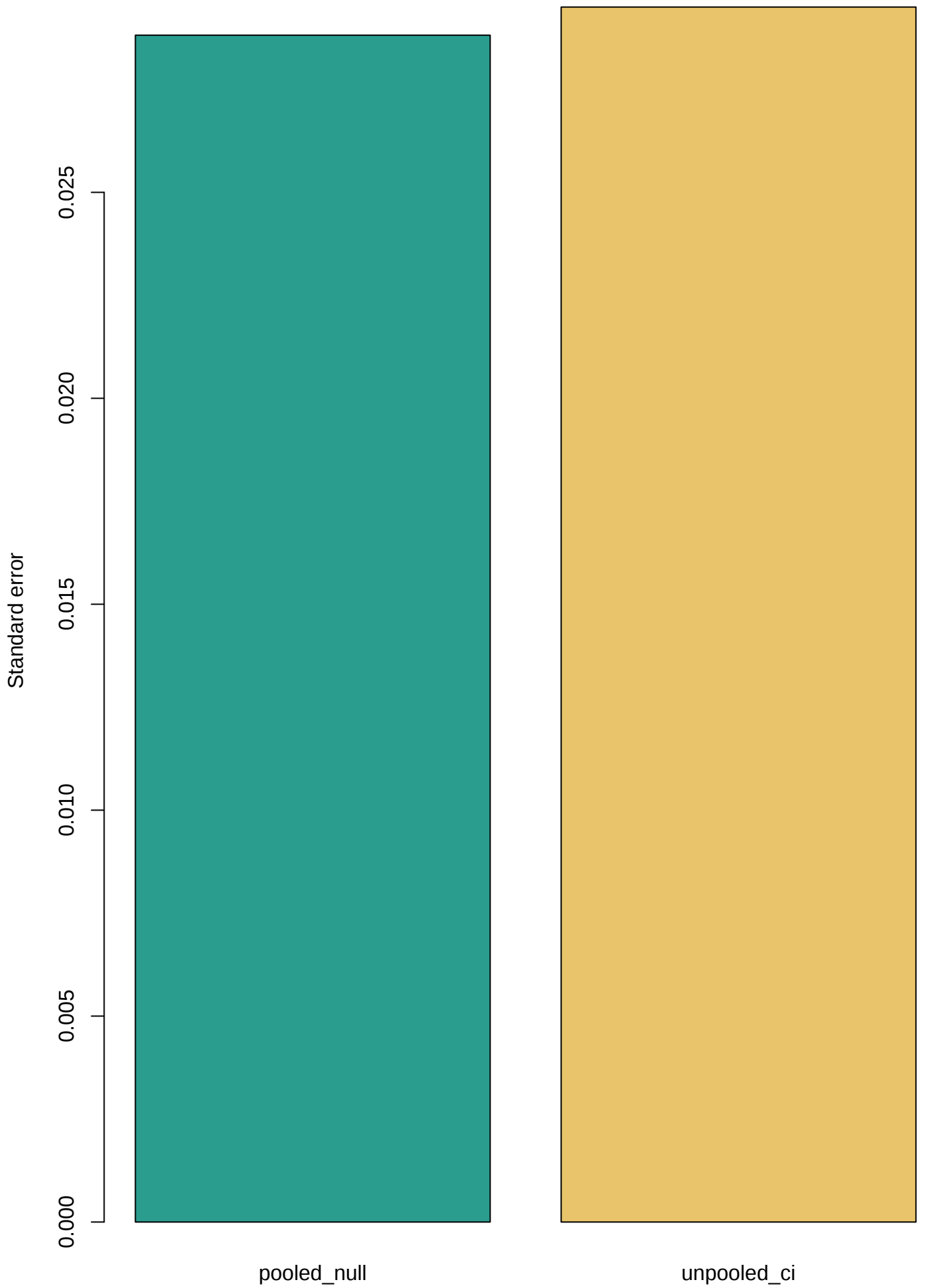
Pass proportions by sex



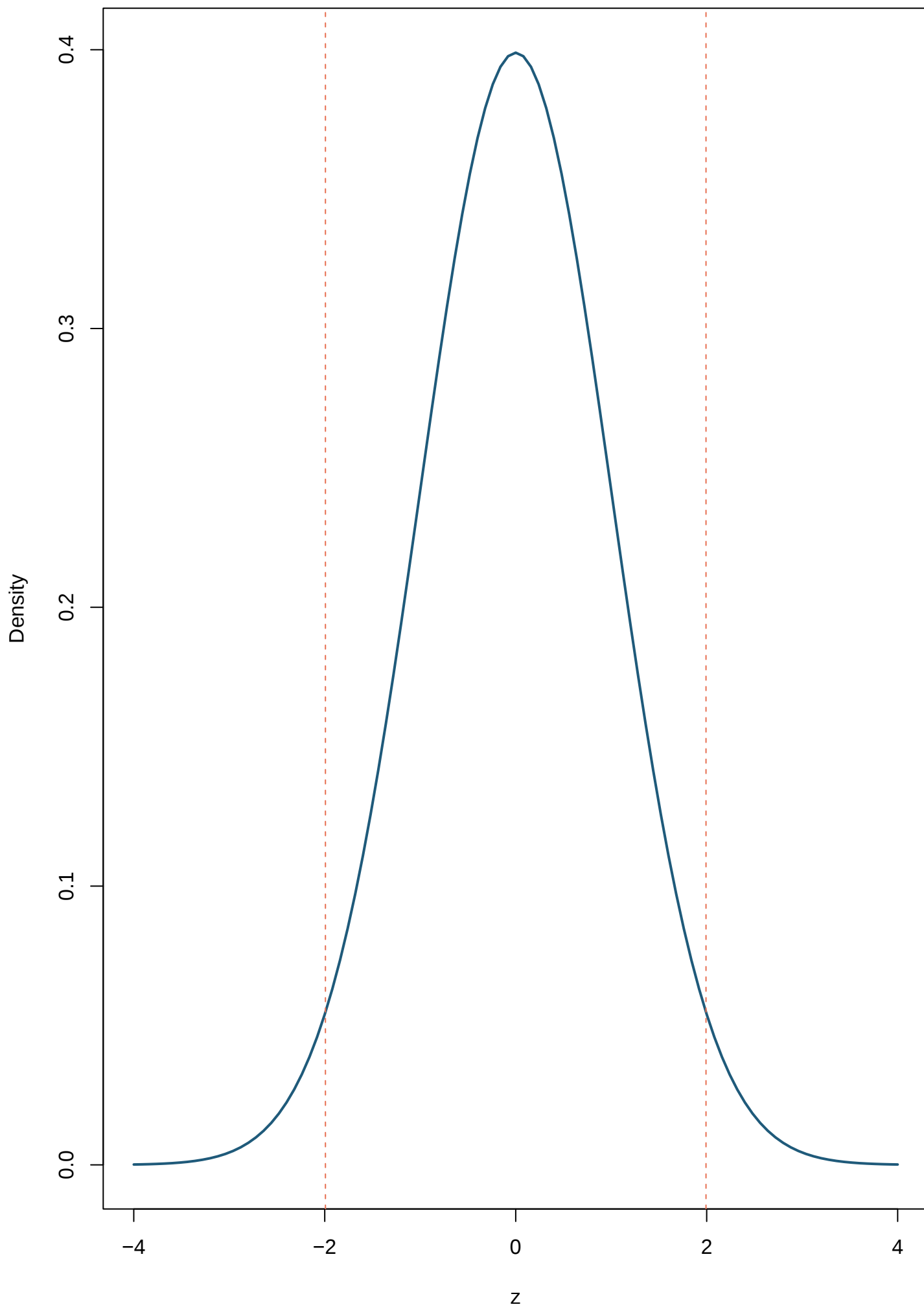
Group proportion intervals



Null and confidence-interval standard errors



Standard-normal reference for z



Two-Sample Z Test for Proportions key results

