|  |  |
| --- | --- |
| A blue background with white text  Description automatically generated | **ISLA Development Site**  <https://pengdsci.github.io/ISLA/> |
| **App Name (clickable links)**  [1. Descriptive Statistics](https://wcupeng.shinyapps.io/DescriptiveStats/)  [2. Standard Normal Table](https://wcupeng.shinyapps.io/ZTable/)  [3. Two Types of Normal Questions](https://chengpeng.shinyapps.io/TwoQuestionsofNormalDist/)  [4. Central Limit Theorem Demo](https://wcupeng.shinyapps.io/CLTdemo/)  [5. Applications of CLT for Means](https://wcupeng.shinyapps.io/AppsCLT4Means/)  [6. Applications of CLT for Proportions](https://wcupeng.shinyapps.io/AppsCLT4Prop/)  [7. Normal CI for Means and Proportion](https://wcu-peng.shinyapps.io/NormalCI4MeanProp/)  [8. Student t Table](https://wcu-peng.shinyapps.io/t-Table/)  [9. Student t CI for Means](https://wcu-peng.shinyapps.io/Student-t-CI/)  [10. Normal Test for One Mean](https://wcu-peng.shinyapps.io/oneMean-z-Test/)  [11. t Test for One Mean](https://wcu-peng.shinyapps.io/oneMean-ttest/)  [12. Normal Test for One Proportion](https://chpeng.shinyapps.io/oneProp-z-testR/)  [13. 2-sample Tests of Means](https://chpeng.shinyapps.io/twoSampleTests/)  [14. Regression: Simulation](https://chpeng.shinyapps.io/LSE-Reg/)  [15. Correlation and Regression](https://chengpeng.shinyapps.io/correlation-reg/)  [16. Chi-square Test of Goodness-of-fit](https://chpeng.shinyapps.io/chisq-gof/)  [17. Chi-squared Test of Independence](https://chpeng.shinyapps.io/chisq-independence/) | **R Source Code (clickable links)**  [1. Descriptive](https://github.com/pengdsci/ISLA/blob/main/Rcode/01DescriptiveStatisticsApp.R) Stats (520 lines of code)  [2. Std Normal Table (180 lines of code)](https://github.com/pengdsci/ISLA/blob/main/Rcode/02ZTable.R" \t "popup)  [3.Normal Questions](https://github.com/pengdsci/ISLA/blob/main/Rcode/05twoQeustions-NormDist.R) (850 lines of code)  [4. CLT Demo](https://github.com/pengdsci/ISLA/blob/main/Rcode/03CLTdemo.R) (450 lines of code)  [5. CLT for Means](https://github.com/pengdsci/ISLA/blob/main/Rcode/04TwoQeustionsCLT-Mean.R) (860 lines of code)  [6. CLT for Prop (440 lines of code)](https://github.com/pengdsci/ISLA/blob/main/Rcode/05TwoQeustionsCLT-Proportion-T.R)  [7. z-CI for Means](https://github.com/pengdsci/ISLA/blob/main/Rcode/06Normal-CI.R) (175 lines of code)  [8. Student t Table](https://github.com/pengdsci/ISLA/blob/main/Rcode/07t-Table.R) (160 lines of code)  [9. t CI for Means](https://github.com/pengdsci/ISLA/blob/main/Rcode/08t-CI.R) (175 lines of code)  [10. 1-mean Z- Test (470 lines of code)](https://github.com/pengdsci/ISLA/blob/main/Rcode/09OneMean-z-TestR.R)  [11. 1 -mean t Test](https://github.com/pengdsci/ISLA/blob/main/Rcode/11OneMean-t-TestR.R) (390 lines of code)  [12. 1-prop-z Test](https://github.com/pengdsci/ISLA/blob/main/Rcode/10OneProp-z-TestR.R) (230 lines of code)  [13. Two-sample Tests](https://github.com/pengdsci/ISLA/blob/main/Rcode/12twoSampleTestR.R) (380 lines of code)  [14. Regression Demo](https://github.com/pengdsci/ISLA/blob/main/Rcode/13LeastSquareRegression.R) (180 lines of code)  [15. Correlation and Reg](https://github.com/pengdsci/ISLA/blob/main/Rcode/14CoefRegssion.R) (380 lines of code)  [16. Chi-squared Test GOF](https://github.com/pengdsci/ISLA/blob/main/Rcode/15chisqGoodnessFit.R) (240 lines of code)  [17. Chi-squared Test of independence](https://github.com/pengdsci/ISLA/blob/main/Rcode/16ChisqIndependentTest.R) (300 lines of code) |