Readme for running scenario analyses

This doc has been updated and revised in the google doc entitled “[Full workflow for risk assessment and tradeoff analysis](https://docs.google.com/document/d/1T8S5rEOACMCeGa5efS5BnEQY4gOw-PbxmvILJvShsQo/edit)”.

Todo

1. Run prep\_data\_for\_scenario\_df\_function.R: makes CA\_DCRB\_vms\_fishing\_daily\_2009-2018\_fishtix\_humpback\_blue\_whales\_grids.RDS
2. Assign grid cells to region value using lookup key. See .rds SW made with script Grid\_key.R
3. Run make\_scenarios\_table.R: creates df containing scenarios of interest
4. Run scenarios scripts
   1. Mgmt\_testing\_JS.R
      1. Once testing is completed, should develop a final script
      2. ~~Brings in whale data (or not)~~
      3. Runs effort\_mgmt() function from Mgmt\_scenarios\_shift\_effort.R to create list of scenario-specific df’s
      4. Runs risk\_mgmt() function from Mgmt\_scenarios\_risk.R, which summarizes risk for scenario-specific df’s
         1. Bring whale data in here
   2. Run make\_tradeoff\_dataframes\_function.R:
      1. for each scenario df, (1) sum by crab\_year (over year\_month and Region) to get annual values for each crab\_year, (2) join to metadata for scenario
      2. make tradeoff df
      3. outputs are annual\_statewide\_scenario\_ouputs\_05-08-2020.rds and tradeoff\_df\_05-08-2020.rds
      4. I implemented this function in Mgmt\_testing\_JS.r
5. Run plot\_tradeoffs\_function.R
6. Run plot\_bivariate\_function.R
7. Run plot\_timeseries\_function.R