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| R Mark-down | | \**italics*\* \*\***Bold**\*\* #Largest Header  ##smaller header, ... until ######  `inline code` ![](link to image)  [text displayed](link to webpage)  # css from styles.css  # TOC will appear on left, and still be shown when scrolling  # smallest size of headers included in TOC  # bulleted list in TOC  # i.e. 08 June 2022  #use if want to reuse report, specify how the param should  be changed  #set global default options for all text/image   |  |  |  |  | | --- | --- | --- | --- | | FALSE | Code run | Code show | Result show | | include | Yes | No | No | | echo | Yes | No | Yes | | eval | No | Yes | No |   collapse=TRUE: code and text merged into single cell  warning=FALSE: remove warning message  message=FALSE: remove messages but show code  error=TRUE: file will knit even with errors  results='hide' hides printed output, fig.show='hide' hides plots  cache=TRUE to cache data in code chunk  #place 'data' in cell to distinguish code from text  #return actual value of variable in text  # creating bulleted lists, add identation for subpoints  #{r code chunk for `r params$param1`} if needed  #use filter(col1==params$param1...) if params used  #na.rm=TRUE remove null values  #or fig.dim=c(5,3) or out.width='50%', out.height, fig.align='left' or 'right'/'center'  #aes (aesthetics)  geom\_line: line plot, geom\_point: scatterplot  # create tables, default alignment is right for numeric, left for others, {'l':left, 'r':right, 'c':center}  # ea 'c' for ea col | | ---  title: "Investment Report"  output:  html\_document:  css: styles.css  toc: true  toc\_float: true (further customize collapsed, smooth\_scroll)  toc\_depth: 2 (i.e. only # and ## will be included in TOC)  number\_sections: true (#: num start from 1, ##: num from 0)  author: "Austin"  date: "`r Sys.Date()`" OR "`r format(Sys.time(), '%d %B %Y)'`"  params:  param1: test  ---  ```{r setup, include = FALSE, eval=FALSE}  knitr::opts\_chunk$set(fig.align='center', echo=TRUE)  ```  ```{r data, include = FALSE}  library(readr)  libray(dplyr)  library(ggplot2)  library(knitr)  data <- read\_csv("file.csv")  ```  ## Datasets  ### Dataset1  The `data` is ...  The sum is `r total`  - Point1 OR Point1  - Point1.1 1. Point1.1  - Point1.2... 2. Point1.2  ```{r code chunk for Dataset1}  filtered <- data %>%  filter(col1=='A', date >= '2017-08-30')  total <- data %>%  summarize(sum\_total = sum(col1, na.rm=TRUE))  filtered  ```  ```{r code chunk for plot, fig.width=5, fig.height=3, fig.cap='Captions'}  ggplot(data, aes(x=col1, y=col2, color=col3)) + geom\_line() +  labs(title = '', x='', y='')  ```  ```{r tables}  kable(df, col.names=c(), align='ccc', caption='Caption')  ``` | |
| CSS | | | Place in styles.css file  # #header for headers, opacity: 0.6 OR h1.title, h4.author, h4.date to modify individually  # #TOC for toc, border-color  #body for text  font-size:  #pre for code chunks | | <style>  #header {}  #TOC {}  body {  color: red;  font-family: Calibri;  background-color: #F5F5F5;  }  pre {}  </style> |
|  | | | CMD+options+I to create code chunk | |  |
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|  | writeLines()  as.character(num)  format(num, digits=3, scientific=TRUE) OR format(num, digits, scientific=FALSE)  trim=TRUE to remove justify, big.mark="," to add "," in large nums, big.interval=3 to add big.mark every 3 nums, justify="right"  formatC(num, digits, format="f", flag=), f: fixed, e: scientific, g: fixed unless scientific less space, flag="+" OR "-" OR "0" to display sign, left align, pad num w 0s  paste(string, string, sep="")  paste(vector, 'a', collapse=" ,") #collapse=TRUE combines output into 1  paste0() # paste with sep="" | | | | write lines on new line  convert to string  "1.23e+30" 1230000...  digits according to num w least sf  digits is num of dp after . for fixed format  combine strings into 1 string,  recycling rule applies here and return multiple strings w/o collapse |
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