

# How To Learn



Introduction to Chromebook Data Science



Data scientists fail *all the time*

A person stands on the peak of a dark, jagged mountain, arms raised in a gesture of triumph or achievement. The background is a vast, hazy mountain range under a sky filled with warm, golden light, suggesting a sunrise or sunset. The overall mood is one of accomplishment and perseverance.

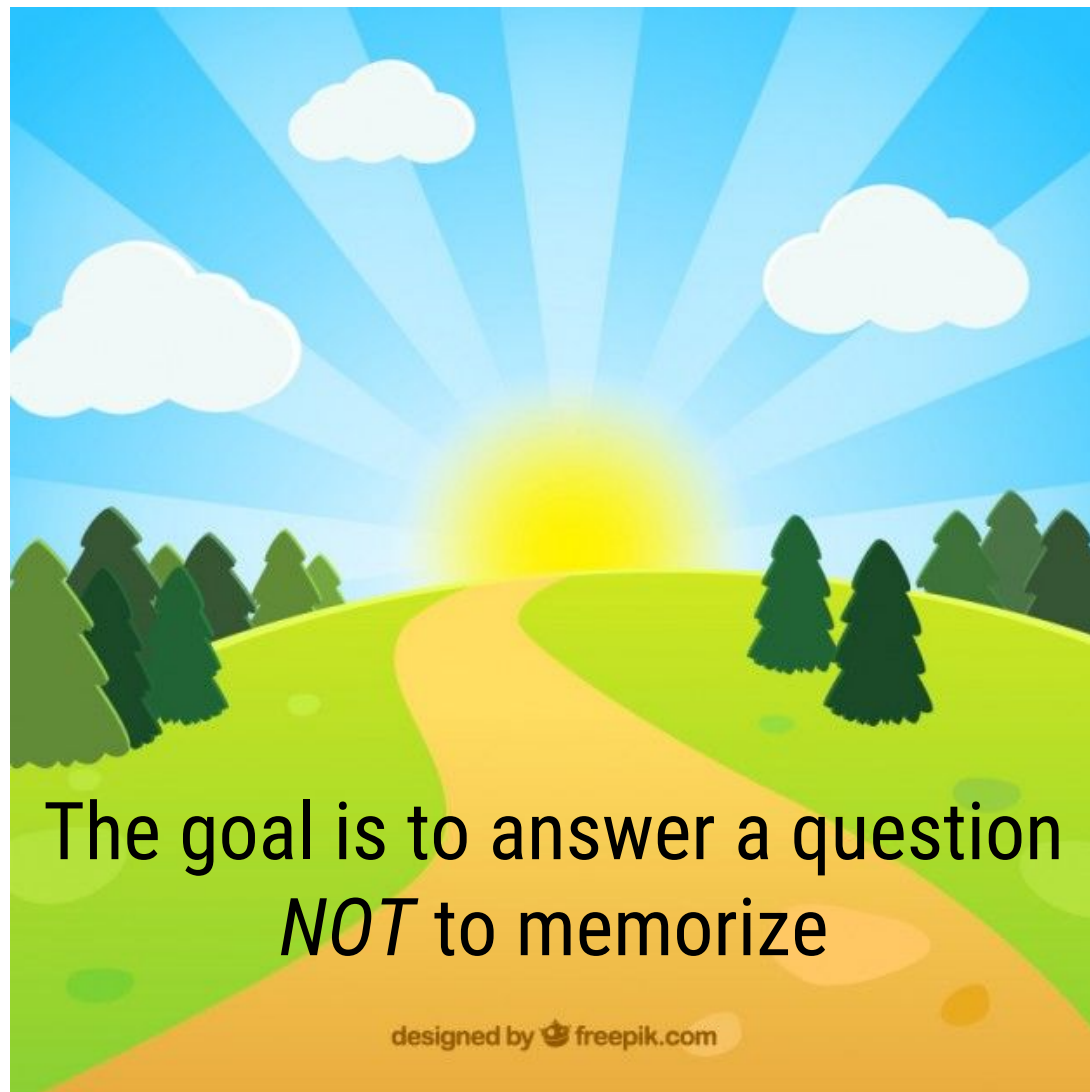
All successful projects failed  
along the way to success



The process can be frustrating and hard.

Links to videos of professionals failing:





The goal is to answer a question  
*NOT* to memorize

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All four lines of code do the  
***same*** thing!



```
mtcars %>% tidyr::gather(key = variable, value = value)
```

```
tidyr::gather(mtcars, key = variable, value = value)
```

```
mtcars %>% tidyr::gather(key = variable)
```


```
mtcars_long <- tidyr::gather(mtcars, key = variable)
```









A person stands on the peak of a dark, rocky mountain, their arms raised in a gesture of triumph or achievement. The background is a vast, hazy mountain range under a sky filled with warm, golden light, suggesting a sunrise or sunset. The overall mood is one of accomplishment and perseverance.

It's important to remember  
that failing is hard.