"Vignettes" contain tutorials and user guides

vignettes/monocle3basics.Rmd

```
title: "Monocle3 Basics"
author: "Cole Trapnell"
date: "`r Sys.Date()`"
output: rmarkdown::html_vignette
vignette: >
 %\VignetteIndexEntry{Vignette Title}
 %\VignetteEngine{knitr::rmarkdown}
  %\VignetteEncoding{UTF-8}
```{r setup, include = FALSE}
knitr::opts_chunk$set(
 collapse = TRUE,
 comment = "#>"
```{r}
library(monocle3)
library(ggplot2)
```{r}
cds <- load_a549()</pre>
```{r}
cds <- preprocess_cds(cds, num_dim = 20)</pre>
```{r}
plot_pc_variance_explained(cds)
```

## The testthat package helps you execute unit tests

```
context("String length")
library(stringr)
test_that("str_length is number of characters", {
 expect_equal(str_length("ab"), 2)
 expect_equal(str_length("abc"), 3)
})
test_that("str_length of factor is length of level", {
 expect_equal(str_length(factor("a")), 1)
 expect_equal(str_length(factor("ab")), 2)
 expect_equal(str_length(factor("abc")), 3)
})
test_that("str_length of missing is missing", {
 expect_equal(str_length(NA), NA_integer_)
 expect_equal(str_length(c(NA, 1)), c(NA, 1))
 expect_equal(str_length("NA"), 2)
```