

Ying's Manuscript

Introduction

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this. The `echo: false` option disables the printing of code (only output is displayed).

Here is a footnote reference,¹ and another.² You can also reference inline!³

The whole paragraph can be indented, or just the first line. In this way, multi-paragraph footnotes work like multi-paragraph list items.

Here is a sentence with citation using bibliography.¹

The sentence has multiple references.²⁻⁴

Black-Scholes (Equation 1) is a mathematical model that seeks to explain the behavior of financial derivatives, most commonly options:

$$\frac{\partial C}{\partial t} + \frac{1}{2}\sigma^2 S^2 \frac{\partial^2 C}{\partial C^2} + rS \frac{\partial C}{\partial S} = rC \quad (1)$$


¹Here is the footnote.

²Here's one with multiple blocks. Subsequent paragraphs are indented to show that they belong to the previous footnote.

```
{ some.code }
```

³Hello. I am an inline footnote.

14 Other materials

15 The birch canoe slid on the smooth planks. Glue the sheet to the dark blue background. It's
16 easy to tell the depth of a well. These days a chicken leg is a rare dish. Rice is often served in
17 round bowls. The juice of lemons makes fine punch. The box was thrown beside the parked
18 truck. The hogs were fed chopped corn and garbage. Four hours of steady work faced us.
19 Large size in stockings is hard to sell. Check out Section for additional content. The boy was
20 there when the sun rose.  A rod is used to catch pink salmon. The source of the huge river
21 is the clear spring. Kick the ball straight and follow through. Help the woman get back to
22 her feet. A pot of tea helps to pass the evening. Smoky fires lack flame and heat. The soft
23 cushion broke the man's fall. The salt breeze came across from the sea. The girl at the booth
24 sold fifty bonds. The small pup gnawed a hole in the sock. The fish twisted and turned on
25 the bent hook. Press the pants and sew a button on the vest. The swan dive was far short of
26 perfect.

27 The beauty of the view stunned the young boy. Two blue fish swam in the tank. Her purse was
28 full of useless trash. The colt reared and threw the tall rider. It snowed, rained, and hailed the
29 same morning. Read verse out loud for pleasure. Hoist the load to your left shoulder. Take
30 the winding path to reach the lake. Note closely the size of the gas tank. Wipe the grease off
31 his dirty face. See Figure 1 to see the stamp I'm talking about.



Figure 1: stamp A

32 Mend the coat before you go out. The wrist was badly strained and hung limp. The stray
33 cat gave birth to kittens. The young girl gave no clear response. The meal was cooked before
34 the bell rang. What joy there is in living. A king ruled the state in the early days. The ship
35 was torn apart on the sharp reef. Sickness kept him home the third week. The wide road
36 shimmered in the hot sun. The lazy cow lay in the cool grass. Lift the square stone over the
37 fence. The rope will bind the seven books at once. Hop over the fence and plunge in. The
38 friendly gang left the drug store. Mesh mire keeps chicks inside. The frosty air passed through
39 the coat. The crooked maze failed to fool the mouse. Adding fast leads to wrong sums. The
40 show was a flop from the very start. A saw is a tool used for making boards. The wagon
41 moved on well oiled wheels. March the soldiers past the next hill. A cup of sugar makes sweet
42 fudge. Place a rosebush near the porch steps. Both lost their lives in the raging storm. We
43 talked of the slide show in the circus. Use a pencil to write the first draft. He ran half way
44 to the hardware store. The clock struck to mark the third period. A small creek cut across
45 the field. Cars and busses stalled in snow drifts. The set of china hit, the floor with a crash.
46 This is a grand season for hikes on the road. The dune rose from the edge of the water. Those

47 words were the cue for the actor to leave. A yacht slid around the point into the bay. The two
 48 met while playing on the sand. The ink stain dried on the finished page. The walled town was
 49 seized without a fight. The lease ran out in sixteen weeks. A tame squirrel makes a nice pet.
 50 The horn of the car woke the sleeping cop. The heart beat strongly and with firm strokes. The
 51 pearl was worn in a thin silver ring. The fruit peel was cut in thick slices. The Navy attacked
 52 the big task force. See the cat glaring at the scared mouse. There are more than two factors
 53 here. The hat brim was wide and too droopy. The lawyer tried to lose his case. The grass
 54 curled around the fence post. Now look at Figure 2, and notice how Figure 2a and Figure 2b
 55 differ.



(a) stamp B



(b) stamp A again

Figure 2: Combined stamps. Show again are several stamps. Figure 2a shows in blue, and Figure 2b in red.

56 The birch canoe slid on the smooth planks. Glue the sheet to the dark blue background. It's
 57 easy to tell the depth of a well. These days a chicken leg is a rare dish. Rice is often served in
 58 round bowls. The juice of lemons makes fine punch. The box was thrown beside the parked
 59 truck. The hogs were fed chopped corn and garbage. Four hours of steady work faced us.
 60 Large size in stockings is hard to sell. Mend the coat before you go out. The wrist was badly
 61 strained and hung limp. The stray cat gave birth to kittens. The young girl gave no clear
 62 response. The meal was cooked before the bell rang. What joy there is in living. A king ruled
 63 the state in the early days. The ship was torn apart on the sharp reef. Sickness kept him
 64 home the third week. The wide road shimmered in the hot sun. The lazy cow lay in the cool
 65 grass. Lift the square stone over the fence. The rope will bind the seven books at once. Hop
 66 over the fence and plunge in. The friendly gang left the drug store. Mesh mire keeps chicks
 67 inside. The frosty air passed through the coat. The crooked maze failed to fool the mouse.
 68 Adding fast leads to wrong sums. The boy was there when the sun rose. A rod is used to
 69 catch pink salmon. The source of the huge river is the clear spring. Kick the ball straight and
 70 follow through. Help the woman get back to her feet. A pot of tea helps to pass the evening.
 71 Smoky fires lack flame and heat. The soft cushion broke the man's fall. The salt breeze came
 72 across from the sea. The girl at the booth sold fifty bonds. The small pup gnawed a hole in

73 the sock. The fish twisted and turned on the bent hook. Press the pants and sew a button on
 74 the vest. The swan dive was far short of perfect. The beauty of the view stunned the young
 75 boy. Two blue fish swam in the tank. Her purse was full of useless trash. The colt reared and
 76 threw the tall rider. It snowed, rained, and hailed the same morning. Read verse out loud for
 77 pleasure. Hoist the load to your left shoulder. See Figure 3.

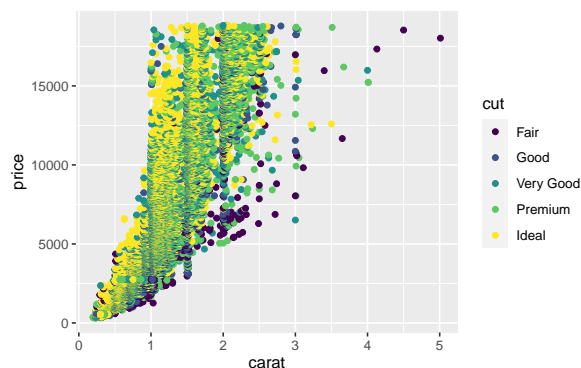


Figure 3: Plot of Diamonds

78 Take the winding path to reach the lake. Note closely the size of the gas tank. Wipe the grease
 79 off his dirty face. Mend the coat before you go out. The wrist was badly strained and hung
 80 limp. The stray cat gave birth to kittens. The young girl gave no clear response. The meal
 81 was cooked before the bell rang. What joy there is in living. A king ruled the state in the
 82 early days. The ship was torn apart on the sharp reef. Sickness kept him home the third week.
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 85 plunge in. The friendly gang left the drug store. Mesh mire keeps chicks inside. The frosty
 86 air passed through the coat. The crooked maze failed to fool the mouse. Adding fast leads to
 87 wrong sums. The show was a flop from the very start. A saw is a tool used for making boards.
 88 The wagon moved on well oiled wheels. March the soldiers past the next hill. See Table 1.

| | mpg | cyl | disp | hp | drat | wt | qsec | vs | am |
|-------------------|------|-----|-------|-----|------|-------|-------|----|----|
| Mazda RX4 | 21.0 | 6 | 160.0 | 110 | 3.90 | 2.620 | 16.46 | 0 | 1 |
| Mazda RX4 Wag | 21.0 | 6 | 160.0 | 110 | 3.90 | 2.875 | 17.02 | 0 | 1 |
| Datsun 710 | 22.8 | 4 | 108.0 | 93 | 3.85 | 2.320 | 18.61 | 1 | 1 |
| Hornet 4 Drive | 21.4 | 6 | 258.0 | 110 | 3.08 | 3.215 | 19.44 | 1 | 0 |
| Hornet Sportabout | 18.7 | 8 | 360.0 | 175 | 3.15 | 3.440 | 17.02 | 0 | 0 |
| Valiant | 18.1 | 6 | 225.0 | 105 | 2.76 | 3.460 | 20.22 | 1 | 0 |
| Duster 360 | 14.3 | 8 | 360.0 | 245 | 3.21 | 3.570 | 15.84 | 0 | 0 |
| Merc 240D | 24.4 | 4 | 146.7 | 62 | 3.69 | 3.190 | 20.00 | 1 | 0 |
| Merc 230 | 22.8 | 4 | 140.8 | 95 | 3.92 | 3.150 | 22.90 | 1 | 0 |
| Merc 280 | 19.2 | 6 | 167.6 | 123 | 3.92 | 3.440 | 18.30 | 1 | 0 |

| mpg | cyl | disp | hp | drat | wt | qsec | vs | am |
|-----|-----|------|----|------|----|------|----|----|
|-----|-----|------|----|------|----|------|----|----|

Table 1: Table of Mtcars

89 A cup of sugar makes sweet fudge. Place a rosebush near the porch steps. Both lost their lives
 90 in the raging storm. We talked of the slide show in the circus. Use a pencil to write the first
 91 draft. He ran half way to the hardware store. The clock struck to mark the third period. A
 92 small creek cut across the field. Cars and busses stalled in snow drifts. The set of china hit,
 93 the floor with a crash. This is a grand season for hikes on the road. The dune rose from the
 94 edge of the water. Those words were the cue for the actor to leave. A yacht slid around the
 95 point into the bay. The two met while playing on the sand. The ink stain dried on the finished
 96 page. The walled town was seized without a fight. The lease ran out in sixteen weeks. A tame
 97 squirrel makes a nice pet. The horn of the car woke the sleeping cop. The heart beat strongly
 98 and with firm strokes. The pearl was worn in a thin silver ring. The fruit peel was cut in thick
 99 slices. The Navy attacked the big task force. See the cat glaring at the scared mouse. There
 100 are more than two factors here. The hat brim was wide and too droopy. The lawyer tried to
 101 lose his case. The grass curled around the fence post. Anyway here is Figure 4



Figure 4: stamp AA again

102 A cup of sugar makes sweet fudge. Place a rosebush near the porch steps. Both lost their
 103 lives in the raging storm. We talked of the slide show in the circus. Use a pencil to write the
 104 first draft. He ran half way to the hardware store. The clock struck to mark the third period.
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118 the field. Cars and busses stalled in snow drifts. The set of china hit, the floor with a crash.
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125 attacked the big task force. See the cat glaring at the scared mouse. There are more than two
126 factors here. The hat brim was wide and too droopy. The lawyer tried to lose his case. The
127 grass curled around the fence post. You can see a wrapped text thing at ?@fig-wrap.

128 A cup of sugar makes sweet fudge. Place a rosebush
129 near the porch steps. Both lost their lives in the raging
130 storm. We talked of the slide show in the circus. Use
131 a pencil to write the first draft. He ran half way to the
132 hardware store. The clock struck to mark the third
133 period. A small creek cut across the field. Cars and
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137 Those words were the cue for the actor to leave. A
138 yacht slid around the point into the bay. The two met
139 while playing on the sand. The ink stain dried on the



Figure 5: caption here. A cup of
sugar makes sweet fudge.
Place a rosebush near the
porch steps.

140 finished page. The walled town was seized without a fight. The lease ran out in sixteen weeks.
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asdfasdfsdfasfd

Figure 6: caption here

170 hardware store. The clock struck to mark the third period. A small creek cut across the field.
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222 References

- 223 1. Cordonnier, C. *et al.* Randomized study of early versus late immunization with pneumo-
 224 cocal conjugate vaccine after allogeneic stem cell transplantation. *Clinical Infectious*
Diseases **48**, 1392–1401 (2009).
- 225 2. Adibi, M. *et al.* Reduction in hospital admission rates due to post-prostate biopsy
 226 infections after augmenting standard antibiotic prophylaxis. *The Journal of urology*
 (2012).
- 227 3. Gold, M. C. *et al.* Human innate mycobacterium tuberculosis-reactive $\alpha\beta$ TCR+ thy-
 228 mocytes. *PLoS pathogens* **4**, e39 (2008).
- 229 4. Roach, M. B., George, W. J., Figueroa, T. E., Neal, D. E. & McBride, D. Ciprofloxacin
 230 versus gentamicin in prophylaxis against bacteremia in transrectal prostate needle
 biopsy. *Urology* **38**, 84–87 (1991).

231 Acknowledgements: asdf