

# shinymdc-test

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## Abstract

*Markdown in **abstract**.*  $x + 2$ . Section 1. Reference <sup>[1]</sup>.

## 1 Section

Integer at enim eu tellus malesuada scelerisque. Ut sed rhoncus ipsum, at tempor nisl. Vivamus vitae pulvinar leo, at pharetra massa. Ut lobortis odio non nulla tincidunt pulvinar. Nunc faucibus pellentesque elit, non ornare risus suscipit sed. Maecenas vel blandit ex.

Phasellus ultrices mi non nulla hendrerit, at rhoncus augue suscipit. Pellentesque a lectus eget felis maximus feugiat nec ut ante. Sed eget laoreet lectus. Vestibulum iaculis enim nec libero sollicitudin, id rhoncus libero consectetur. Integer eget sem quis urna vulputate aliquet.

### 1.1 Subsection 1

In mollis tortor vel ante cursus, ac consectetur nibh commodo. Aenean ultricies ornare ante ac fermentum. Vestibulum malesuada lectus at pellentesque hendrerit. Praesent a tempor ex, eget iaculis mauris. Integer turpis nunc, varius ac posuere consequat, molestie sed felis. Fusce cursus velit eu magna pellentesque posuere sed eget ex. Vivamus in gravida quam, in volutpat erat.

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\* Equal contribution.

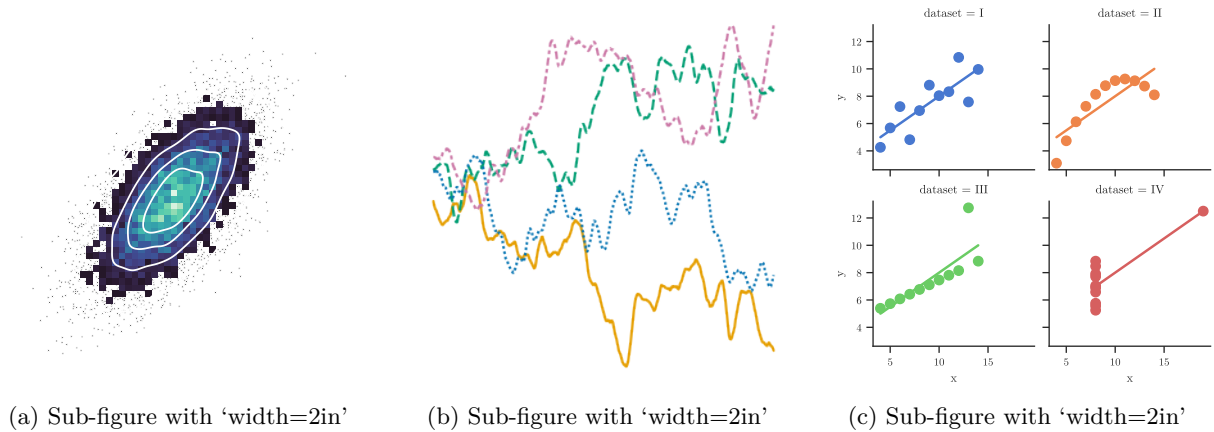


Figure 1: Sub-figures

## 1.2 Subsection 2

### 1.2.1 Subsubsection 1

Suspendisse erat est, imperdiet sed dolor at, sagittis lobortis tortor. Nulla facilisi. Aliquam pharetra scelerisque auctor. Duis vel auctor ipsum. Nullam sagittis feugiat mollis. Aliquam at ultrices libero. Nulla facilisi. Fusce sed est placerat, fringilla augue at, pretium nisl.

### 1.2.2 Subsubsection 2

In ut nunc libero. Duis eu elementum purus. Etiam dictum, ipsum nec aliquam lobortis, magna magna pellentesque ligula, sed ultricies odio ligula vitae orci. Fusce bibendum maximus ligula, id gravida felis dictum a. In dapibus nulla eget volutpat vulputate. Quisque congue erat quis nibh molestie, eget varius eros ultrices.

**Subsubsubsection** Proin eleifend lorem semper, commodo tellus nec, porta purus. Nullam commodo lectus nibh, consequat maximus lorem faucibus in. Nam purus eros, rutrum in sapien et, condimentum lacinia nibh.

## 2 Typography

- **Bold**
- *Italic*
- ***Bold italic.***

## 3 Numbers

- Normal: 0123456789
- Math: 0123456789

## 4 Acronyms

- Default (short+long): Carnegie Mellon University (CMU)
- Repeated (short): CMU
- Forced short: USA
- Repeated after forced short (short+long): United States of America (USA)
- Plural: social security numbers (SSNs)

## 5 Math

$$\int_0^\infty \exp^{-x^2} dx \tag{1}$$

$$a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 \tag{2}$$

- Inline:  $\int_0^\infty \exp^{-x^2} dx$
- Block: Equation 1, Equation 2
- Commands defined in body (P[x in X]):  $\mathbb{P}[x \in \mathcal{X}]$
- Aligned:

$$\begin{aligned} x &= 1 \\ x + y &= 10 \\ x + y + z &= 100 \end{aligned}$$

## 6 Links

- Section: Section 1, Section 1.2
- Appendix section: Section B, Section A.1.1
- Appendix figure: Figure A1
- Appendix table: Table B1
- Appendix math: Equation 4
- Pointer to footnote<sup>1</sup>

## 7 Citations

- Short citation<sup>[2]</sup>
- Short citation with pre note<sup>[see 2]</sup>
- Short citation with locator<sup>[2, p. 1]</sup>
- Short citation with post note<sup>[2, for more]</sup>
- Short citation with locators and pre/post notes<sup>[see 2, chap. 1-4, for more]</sup>
- Long citation: Lesk and Kernighan (1977)<sup>[3]</sup>
- Long citation with locator: Lesk and Kernighan (1977)<sup>[3, chap. 1]</sup>
- Long citation with note: Lesk and Kernighan (1977)<sup>[3, for more]</sup>
- Multi citation<sup>[2-4]</sup>
- Multi citation with pre note<sup>[see 2-4]</sup>

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<sup>1</sup> Example footnote text.

- Multi citation with locators [3, sec. 1; 4; 2, p. 1-3]
- Multi citation with post note [2-4, for more]
- Multi citation with locators and pre/post notes [see 3, p. 1; 4; 2, chap. 1-2, for more]

## 8 Tables

- Table 1
- Table 2

| Col1 | Col2 | Col3 | Col4 |
|------|------|------|------|
| 1    | 2    | 3    | 4    |
| 11   | 22   | 33   | 44   |
| 111  | 222  | 333  | 444  |

Table 1: Short table

| Col1       | Col2 | Col3 | Col4 | Col5 | Col6 | Col7 | Col8 | Col9 | Col10 |
|------------|------|------|------|------|------|------|------|------|-------|
| a          | 1    | 2    | 3    | 123  | abcd | 1234 | 444  | 555  | 666   |
| b          | 11   | 22   | 33   | 456  | efgh | 567  | 44   | 55   | 66    |
| <b>Mid</b> |      |      |      |      |      |      |      |      |       |
| c          | 111  | 222  | 333  | 789  | ijkl | 89   | 4    | 5    | 6     |

Table 2: Wide table

## 9 Figures

- Figure 2
- Figure 3
- Figure 4, Figure 4a, Figure 4b

## 10 Includes

- Commands from metadata include: `arg min`  $\mathbb{R}$
- Include command in body (there should be text after this):

Content added through include statement.

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<sup>2</sup> Footnote in sub-figure caption.

<sup>3</sup> Footnote in figure caption.

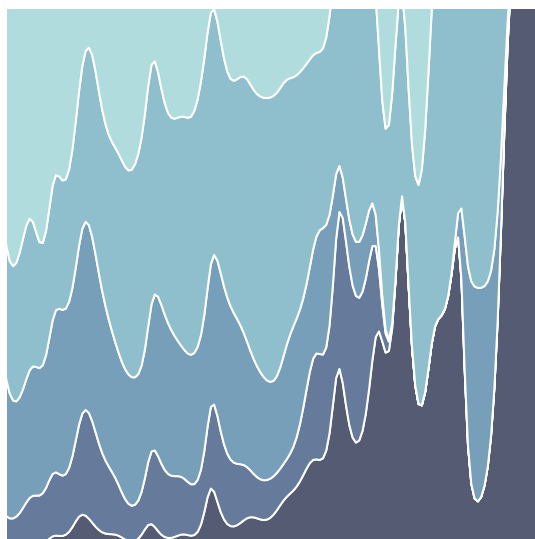


Figure 2: Narrow figure

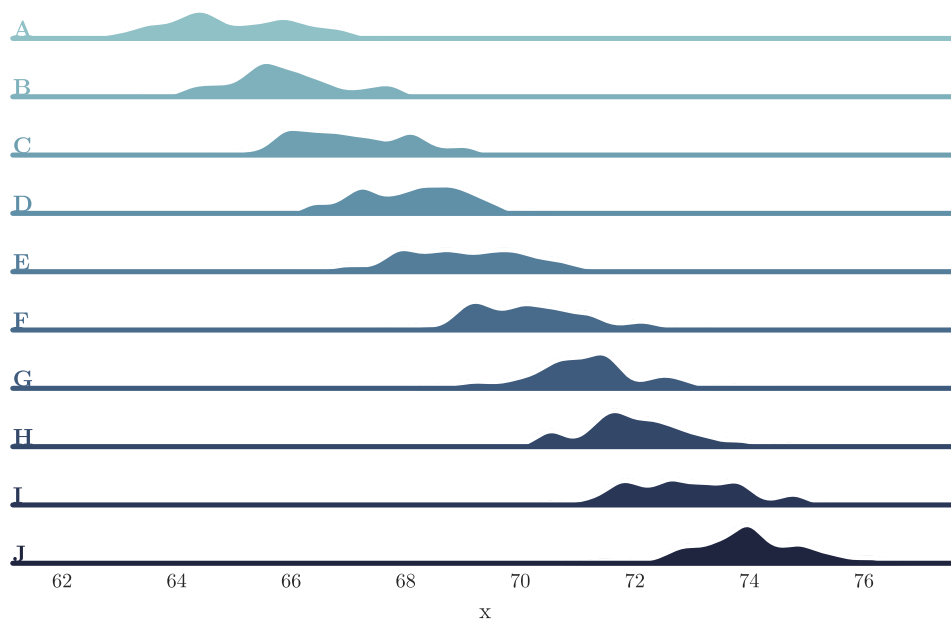
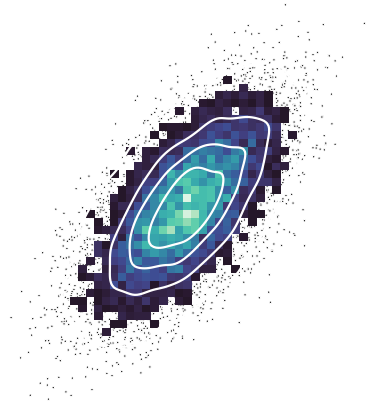
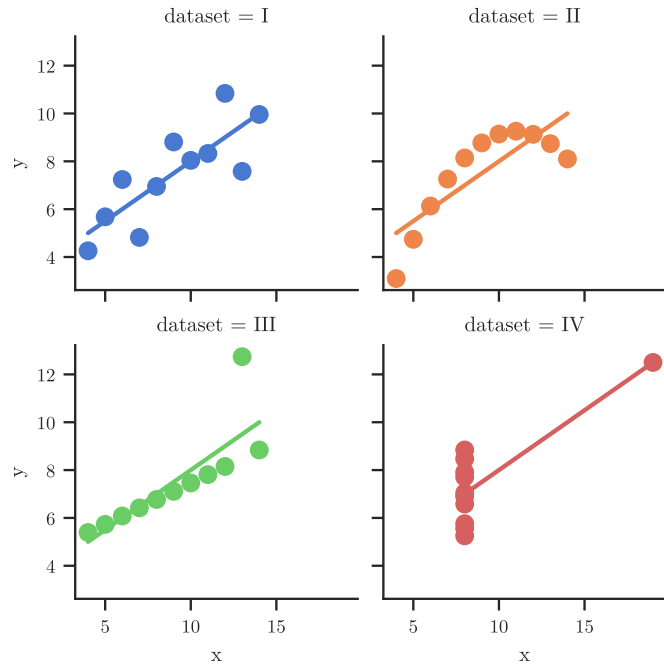


Figure 3: Wide figure



(a) Figure with 'width=2.5in'



(b) Figure with 'width=3.5in' <sup>2</sup>

Figure 4: Sub-figures <sup>3</sup>

## References

- [1] Donald E. Knuth. *The T<sub>E</sub>X Book*. Addison-Wesley Professional, 1986.
- [2] Frank Mittelbach, Michel Gossens, Johannes Braams, David Carlisle, and Chris Rowley. *The L<sup>A</sup>T<sub>E</sub>X Companion*. Addison-Wesley Professional, 2 edition, 2004.
- [3] Michael Lesk and Brian Kernighan. Computer typesetting of technical journals on UNIX. In *Proceedings of American Federation of Information Processing Societies: 1977 National Computer Conference*, pages 879–888, Dallas, Texas, 1977.
- [4] Donald E. Knuth. Literate programming. *The Computer Journal*, 27(2):97–111, 1984.

## Appendix A    Appendix 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam nisi purus, bibendum non neque sed, lacinia tristique tortor. Vestibulum eu lectus sed velit luctus varius. Sed sollicitudin ligula ante. Integer porta a erat commodo dignissim. Duis et lectus diam. Nulla id erat vestibulum nisi placerat efficitur. Nulla a semper libero. Praesent pharetra ullamcorper massa vel tincidunt. Sed dignissim magna et tellus efficitur, vitae sollicitudin lorem tincidunt. Nam non velit et enim rutrum euismod.

### A.1    Appendix subsection

#### A.1.1    Appendix subsubsection

Proin eleifend lorem semper, commodo tellus nec, porta purus. Nullam commodo lectus nibh, consequat maximus lorem faucibus in. Nam purus eros, rutrum in sapien et, condimentum lacinia nibh.

### A.2    Appendix figures

- Figure A1
- Figure A2

### A.3    Appendix includes

- Commands from metadata include (argmin R):
- Include command in body (there should be text after this):

Content added through include statement.

### A.4    Appendix links

- Appendix section: Section A.1.1, Section B
- Main body section: Section 1
- Main body figure: Figure 2
- Main body table: Table 1
- Main body equation: Equation 1
- Citation: Knuth (1984)<sup>[4]</sup>



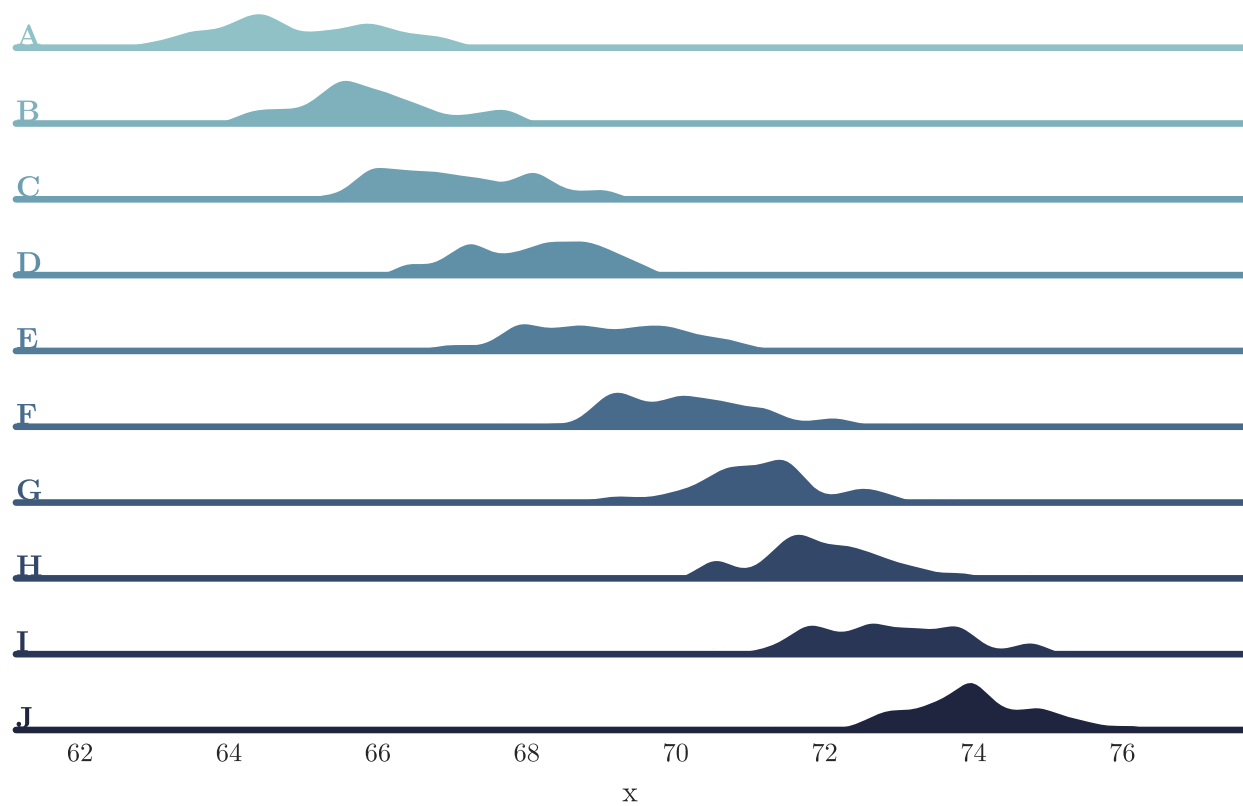
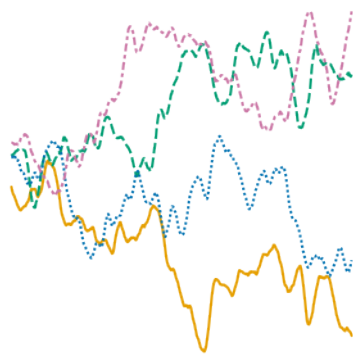
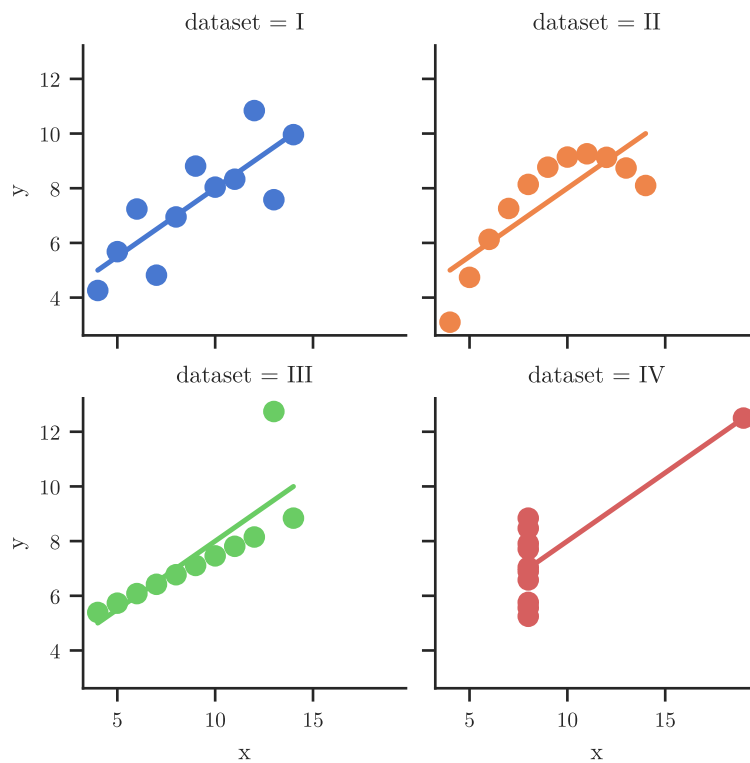


Figure A1: Extra wide figure



(a) Figure with non-default extension

(b) Sub-figure



(c) Sub-figure

Figure A2: Sub-figures with large combined size.

| Col1 | Col2 | Col3 | Col4 | Col5 | Col6 | Col7 | Col8           | Col9 | Col10 | Col11 | Col12 | Col13 | Col14 | Col15 | Col16 | Col17 | Col17 |
|------|------|------|------|------|------|------|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| a    | 1    | 2    | 3    | 123  | abcd | 1234 | 444            | a    | bbb   | cccc  | ddd   | eeee  | fff   | gggg  | abcd  | 1234  | 9876  |
| b    | 11   | 22   | 33   | 456  | efgh | 567  | 44             | aa   | bb    | cccc  | dd    | eeee  | ff    | gggg  | efgh  | 567   | 543   |
| c    | 111  | 222  | 333  | 789  | ijkl | 89   | 4 <sup>2</sup> | aaa  | b     | cccc  | d     | eeee  | f     | gggg  | ijkl  | 89    | 21    |

Table B1: Extra wide table <sup>3</sup>

# Appendix B    Appendix 2

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam nisi purus, bibendum non neque sed, lacinia tristique tortor. Vestibulum eu lectus sed velit luctus varius. Sed sollicitudin ligula ante. Integer porta a erat commodo dignissim. Duis et lectus diam. Nulla id erat vestibulum nisi placerat efficitur. Nulla a semper libero.

## B.1    Appendix tables

- Table B1

## B.2    Appendix math

$$\begin{aligned} x &= 1 \\ x + y &= 10 \end{aligned} \tag{3}$$

$$\frac{\int_0^\infty \exp^{-x^2} \, \mathrm{d}x}{1 + \frac{1}{\int_0^1 \sin^2(x) \, \mathrm{d}x}} \tag{4}$$

- Equation 3
- Equation 4
- Block without tag:

$$x + y + z = 100$$

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<sup>1</sup>Footnote in table.  
<sup>2</sup>Footnote in table.  
<sup>3</sup>Footnote in table caption.