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Abstract

Markdown in ***abstract***. $x + 2$. Section 1. Reference [1].

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.
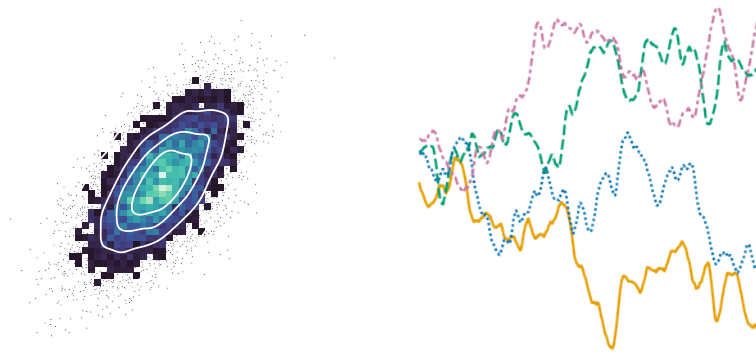
1.2 Subsection 2

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.
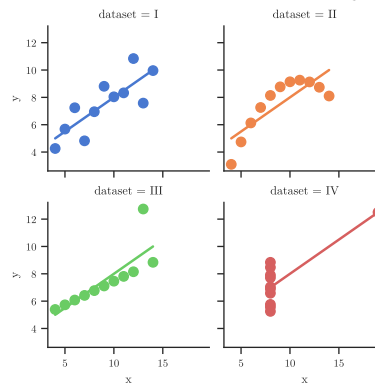
1.2.2 Subsubsection 2

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.

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[*] Equal contribution.

(a) Sub-figure with 'width=2in'

(b) Sub-figure with 'width=2in'

(c) Sub-figure with 'width=2in'

Figure 1: Sub-figures

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***.
- Super $^{\text{script}}$
- Sub $_{\text{script}}$

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

$$\int_0^\infty \exp^{-x^2} \, \mathrm{d}x \qquad (1)$$

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

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

$$x = 1$$
$$x + y = 10$$
$$x + y + z = 100$$

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 [1] [2] text

7 Citations

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

9 Figures

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

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[1] Example footnote text.

[2] 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.

[3] Footnote in sub-figure caption.

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
Mid									
c	111	222	333	789	ijkl	89	4	5	6

Table 2: Wide table

10 Includes

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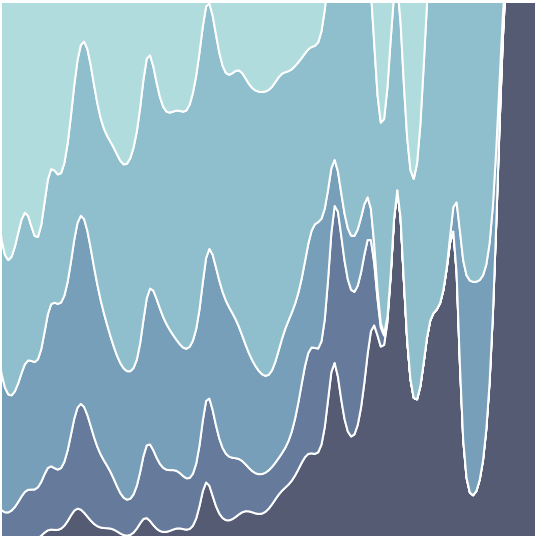
Content added through include statement.

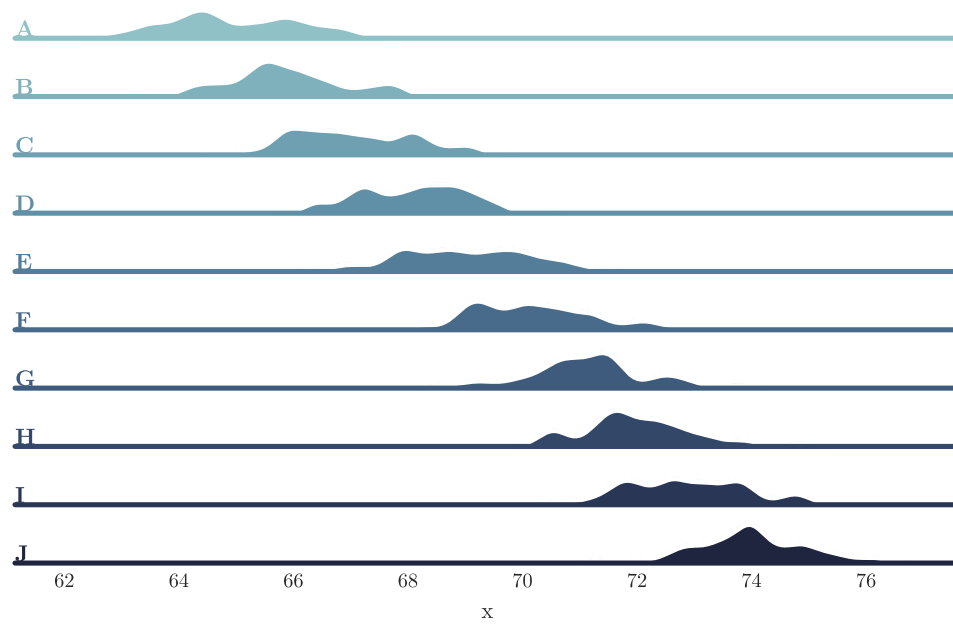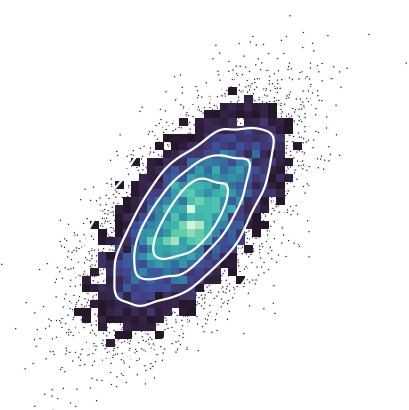Figure 2: Narrow figure

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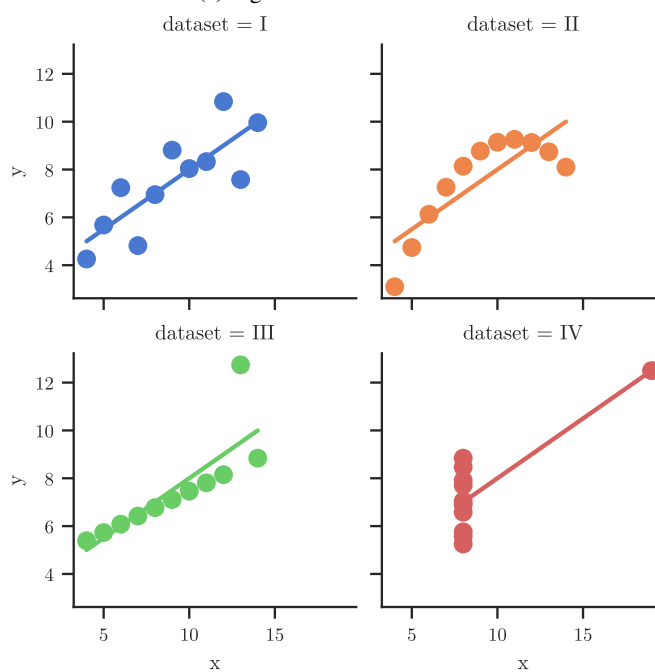[4] Footnote in figure caption.

Figure 3: Wide figure

(a) Figure with 'width=2.5in'

(b) Figure with 'width=3.5in' [3]

Figure 4: Sub-figures [4]

References

[1] Donald E. Knuth. *The T_EX Book*. Addison-Wesley Professional, 1986.

[2] Frank Mittelbach, Michel Gossens, Johannes Braams, David Carlisle, and Chris Rowley. *The LaTeX 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.

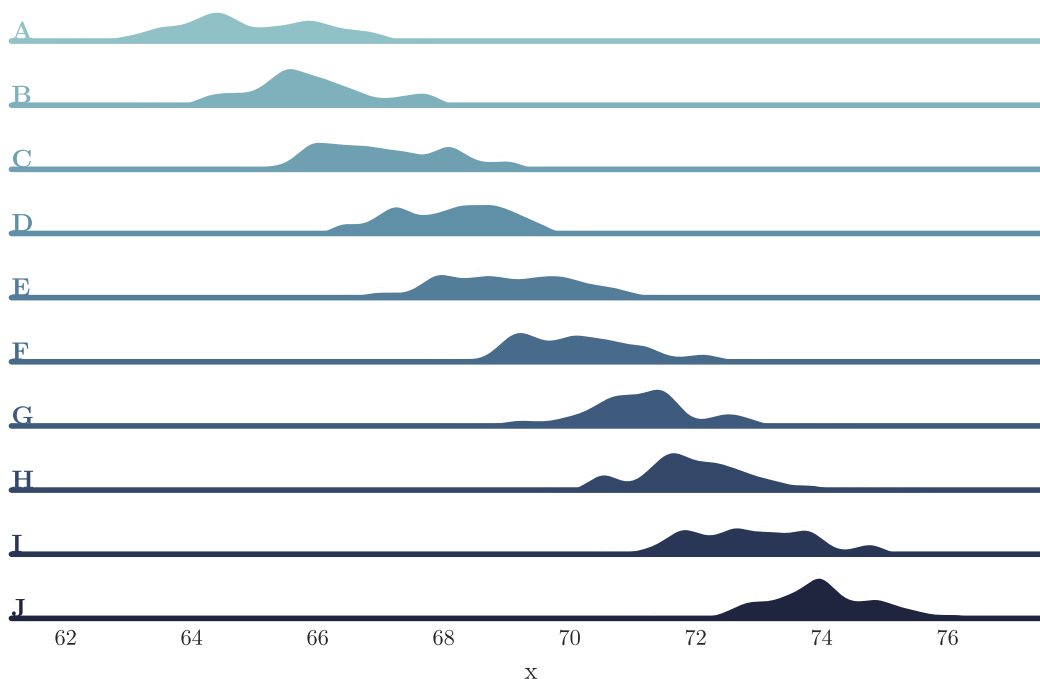[4] Donald E. Knuth. Literate programming. *The Computer Journal*, 27(2):97–111, 1984.

Figure A1: Extra wide figure

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.

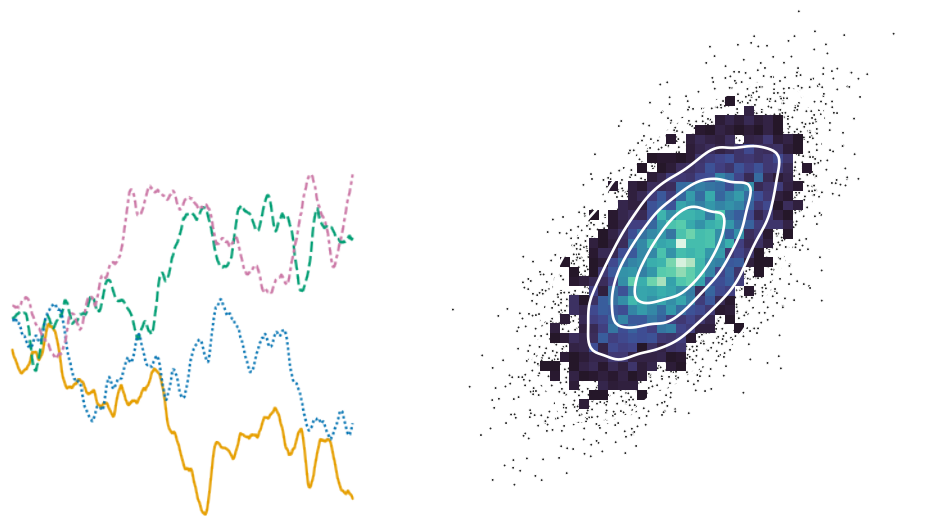## A.2   Appendix figures

- 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.

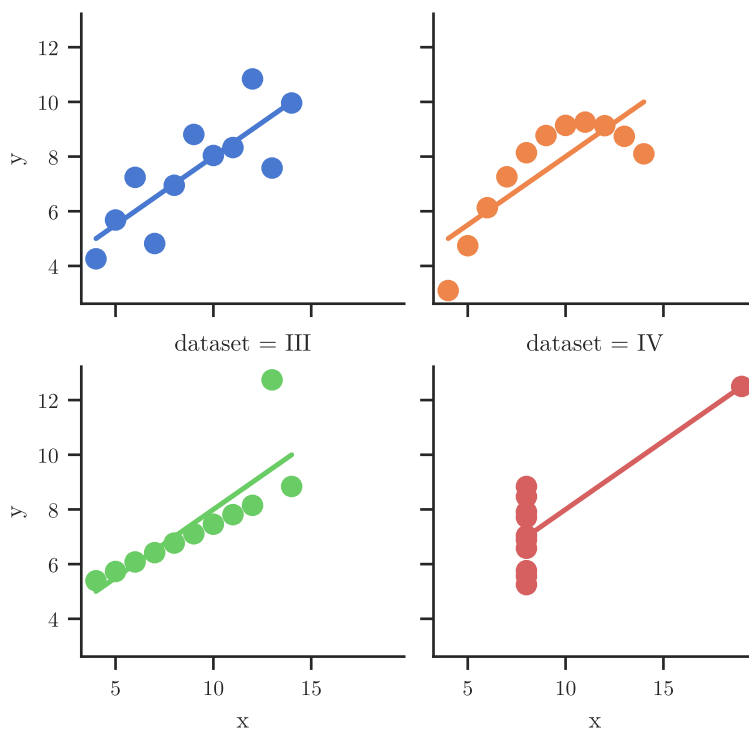## A.4   Appendix links

- Appendix section: Section A.1.1, Section B

(a) Figure with non-default extension

(b) Sub-figure

(c) Sub-figure

Figure A2: Sub-figures with large combined size.

- Main body section: Section 1
- Main body figure: Figure 2
- Main body table: Table 1
- Main body equation: Equation 1
- Citation: Knuth [4]

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 [B2]	aaa	b	cccc	d	eeee	f	gggg	ijkl	89	21

Table B1: Extra wide table [B3]

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:

$$x + y + z = 100$$

[B1] Footnote in table.
[B2] Footnote in table.
[B3] Footnote in table caption.