



A picture helps people to find you

Make it easy for the reader!

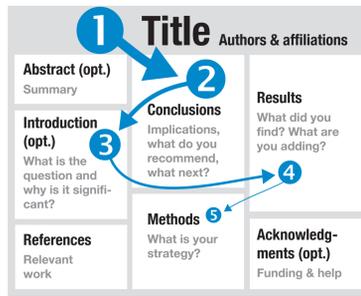
Everything else follows from this

Remember, no one ever complained that someone's poster was too easy to read. (S. Block, 1996)^[1]

The purpose of your poster

- Introduce a piece of your work to colleagues
- Summarize what you did, how you did it, and what you learned
- Stimulate exchange of ideas between you and your audience
- Opportunity for networking: many collaborations begin in front of a poster board!

Fig. 1 →
General poster layout



← Fig. 2

Poster content elements

Arrows show typical reading sequence. Size - number of people still at your poster.

Can you convey your main message in 10 seconds?

Text & Layout

Build a content hierarchy!

Expose headings clearly

General layout considerations

- Everything should be readable from 2–3 meters distance
- To attract people, you can place an eye-catcher or some other attention-getting gimmick
- Be aware of busy backgrounds, a white background is usually best

← Fig. 3

Readability matters most!

Font, size, line length, alignment and spacing all affect readability.^[4]

- A** Better not this way!
- B** Natural reading direction
- C** Be clear about the order
- D** Use a (hidden) grid, let blank space organize the layout

Text & Fonts

Use bullet points to shorten a text and make it easier to understand

- Choose fonts for legibility (Fig. 3),
 - 1 type for the text, preferably serif Here I used Minion regular
 - 1 type for title and headings (may be the same), preferably sans serif Here I used Helvetica condensed bold
- Limit yourself to ~3 font sizes:
 - 18–28 pt for body text Here 24 pt
 - 30–40 pt for headings Here 36 pt
 - 70–120 pt for title Here 115 pt
- Use 11 words per line on average, set column width accordingly
- Avoid paragraphs with > 10 sentences
- Don't cover > 1/3 of poster with text
More text = less communication!
- Spell-check! Typos, if too many, could make the reader think you are also sloppy with your science.

For reversed type you need a larger, bolder font to avoid having ink. **X**

spread into fine serifs and thin strokes. Therefore, choose. **O**

a sans serif font, make it bold and use increased spacing. **✓**

Keep reversed type readable! **✓**

Don't use on less than 50% white. **X**

← Fig. 4

Reversed type needs special treatment

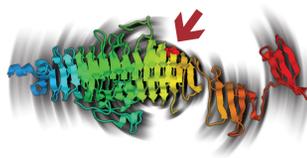
Poster content: focus on the key points!

- A poster is an illustrated abstract, therefore focus on what is essential for a simplified version of your story
- Design such that the main ideas are captured in < 3 minutes (Fig. 2)
- Never hide your main points in-between too many details

Graphics & Color

Use a visual language!

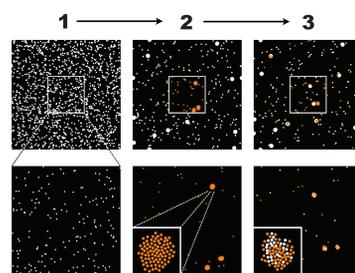
- Visual language encodes logic in non-text elements,
- it is a graphic hierarchy that identifies
 - what is important (Fig. 7), and
 - what belongs together (Fig. 8).
- similar things have similar properties (type, color, line style, shading, ...)
- different things have contrasting properties!
- which of your ideas can you communicate without text?



← Fig. 7

3 Visual language elements

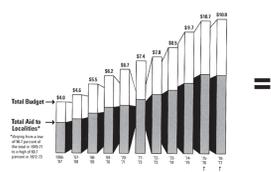
- a) color encodes sequence
- b) shadow signals motion
- c) arrow signals look here!



← Fig. 8

Visual language example

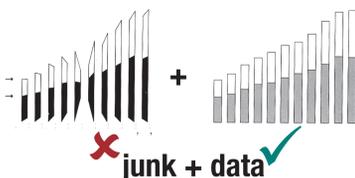
What information is given without a single word?



← Fig. 9

Avoid chartjunk!

Chartjunk^[5] is all ink not carrying information



Figures ...

- must have properly labelled axes (values & units),
- must have a clear, short legend,
- should be numbered in the order they appear in the text,
- should be high quality and near to the text explaining it

Color

- Use as few colors as possible (fewer than on this poster!)
- Consistently use same color for same things, e.g. bad, OK, good
- Colors print identical only if values and mode (RGB/CMYK) match!



← Fig. 11

Color is about contrast!

↳ ... Don't place any key findings below this line. Anything in the lowermost quarter of a poster is likely to not get overlooked

Fig. 5 →
How to improve a plot

- A** "The computer did it this way"
- B** Labels must be clearly visible
- C** Now the focus is on the data
- D** All lines were too thin in A–C

Fig. 6 →
Lines must be thick if colored



← Fig. 10

How to improve a plot

- A** Don't use 3d plots for 2d data!
- B** Much clearer!
- C** Using implicit lines frees space
- D** ... that can now be used for the legend.

Tab. 1.1 →

Cluttered table

Units should go into table head. Most lines are unnecessary. Old style numerals not suited for tables.

Tab. 1.1: Coffee consumption per person and year.

Country	2007	2006	2005
Finland	12 kg	11.8 kg	12.6 kg
Norway	9.9 kg	9.6 kg	9.6 kg
Denmark	8.7 kg	9 kg	8.8 kg
Netherlands	8.4 kg	6.7 kg	7.1 kg
Sweden	8.2 kg	7.8 kg	7.8 kg
Switzerland	7.9 kg	8.2 kg	8.7 kg
Belgium/Lux.	6.8 kg	6.6 kg	6.9 kg
Canada	6.5 kg	5.7 kg	5.2 kg
Germany	6.4 kg	5.5 kg	6.1 kg
Austria	6.1 kg	4.2 kg	5.6 kg

Tab. 1.2: Yearly coffee consumption per person.

← Tab. 1.2

Clear table

Numbers are aligned on the decimal point, one line is emphasized with a 20% grey box.

	2007	2006	2005
Country	kg	kg	kg
Finland	12.0	11.8	12.6
Norway	9.9	9.6	9.6
Denmark	8.7	9.0	8.8
Netherlands	8.4	6.7	7.1
Sweden	8.2	7.8	7.8
Switzerland	7.9	8.2	8.7
Belgium/Lux.	6.8	6.6	6.9
Canada	6.5	5.7	5.2
Germany	6.4	5.5	6.1
Austria	6.1	4.2	5.6

Download → poster PDF here if you like



http://www.mpiibpc.mpg.de/home/grubmueller/ihp/ckutzne

References and further resources

- [1] Block, SM: Do's and don'ts of poster presentations, Biophys J 71 (1996)
- [2] Erren, TC and Bourne, PE: Ten Simple Rules for a Good Poster Presentation, PLoS Comp Biol 3 (2007)
- [3] Hess, GR, Tosney, K, Leigel, L: Creating effective poster presentations: AMEE Guide no. 40, Medical Teacher 31 (2009)
- [4] Strizver, I: Type rules, Wiley (2010)
- [5] Tufte, E: The Visual Display of Quantitative Information, Graphics Press, Cheshire, CT (1983)

Acknowledgment

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