

Making nice looking posters (NLP) has been known to be an NP-hard problem.

...but,
it does not have to be like that!

We propose a polynomial-time solution to the NLP issue; **contributions are welcomed**.

- Context
- > TEX and $\text{L}\text{A}\text{T}\text{E}\text{X}^2$ are to computer scientists what Latin was to ancient scholars.
 - > This is true even in the era of AI.³
 - > Can a poster be automated?¹
 - > This raises the question: **what is the meaning of life without posters?**

- An Inria-theme $\text{L}\text{A}\text{T}\text{E}\text{X}$ poster
- > This is a poster template based on beamer.
 - > We have tried to capture the Inria charter with minimal variations.
 - > Also a starting point: please help and contribute.

Defining the Nice Looking Poster (NLP) Problem

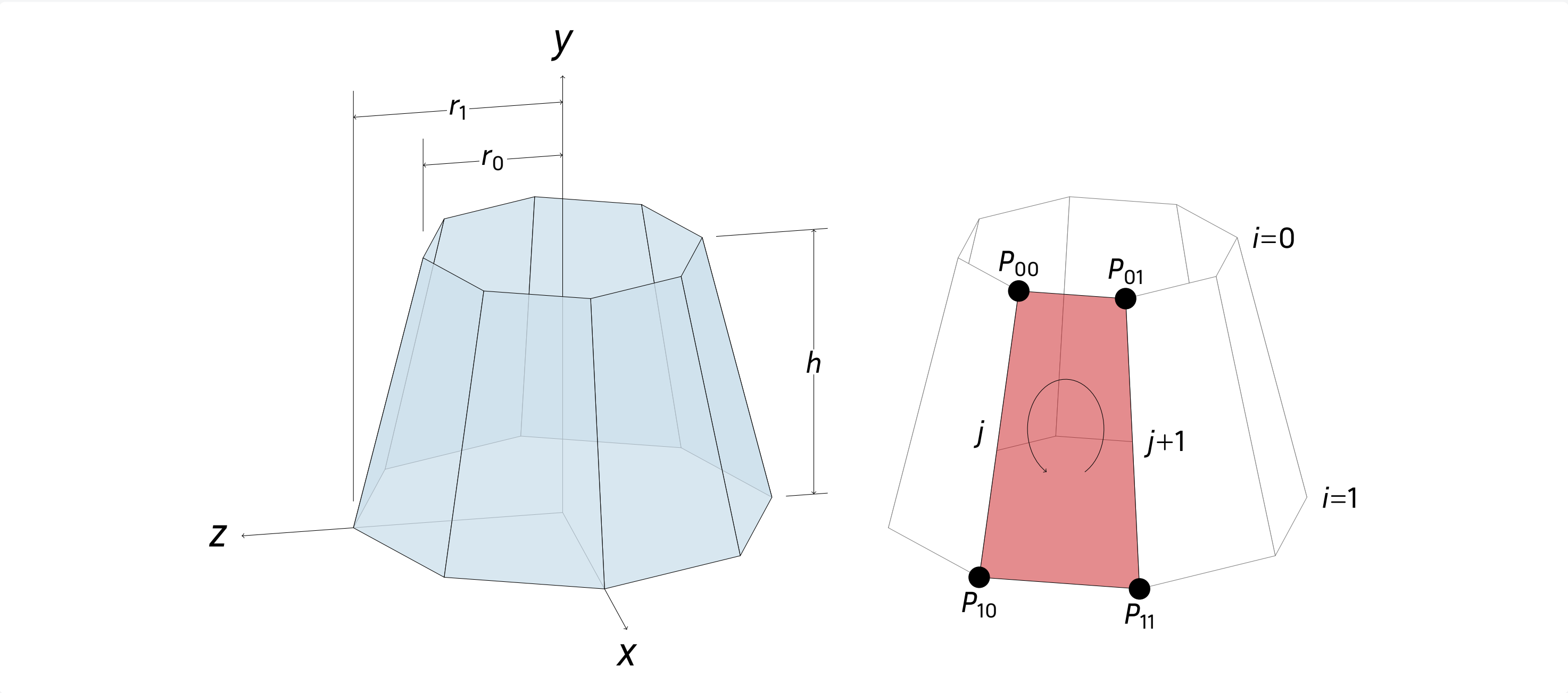
Find optimal poster $\hat{p}$ such that

$$\hat{p} = \arg \min_{p \in \mathcal{P}} \{T(p), U(p), F(p)\}, \text{ where}$$

- > $T(p)$: time dedicated to preparing the poster,
- > $U(p)$: ugliness of the poster,
- > $F(p)$: frustration induced by the poster creation process, and
- > $\mathcal{P}$: set of all possible posters.

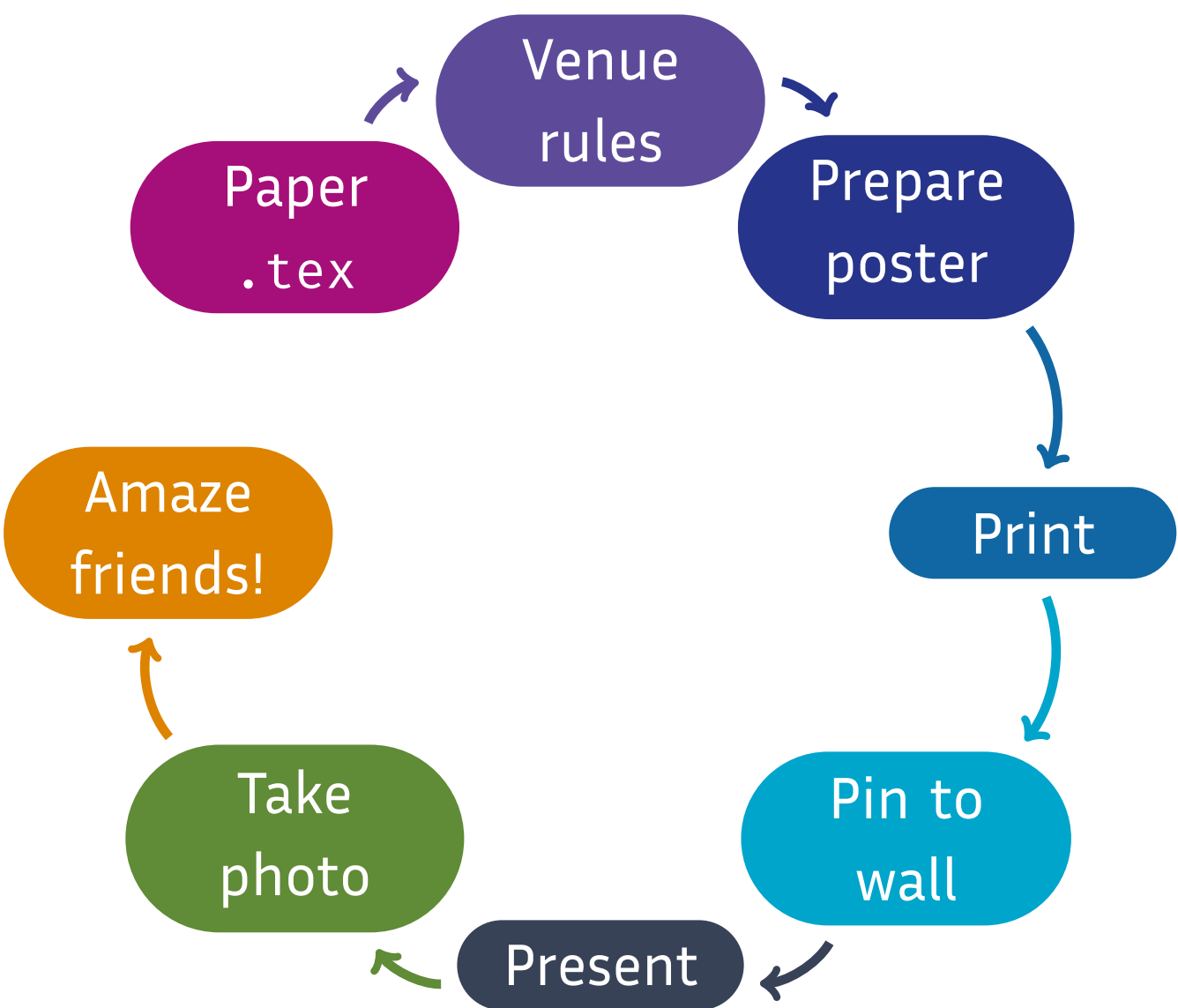
As we already use $\text{L}\text{A}\text{T}\text{E}\text{X}$ for our papers, we will restrict $\mathcal{P}$ to that domain.

- The building blocks of the Inria poster
- > `inriastartblock`: a block to start the poster,
 - > `inriablock`: blocks to use along the poster,
 - > `inriafinalblock`: to be used as the final block of the poster, and
 - > `plainblock`: a simple block for situations where you want to separate content, like in the next block.



- The specific Inria NLP instance
- > **Minimalist**: less is more; focus on the readability of the content.
 - > **Sophisticated**: these gradients are so cool.
 - > **Compliant**: should include the RF Inria logo.
 - ↪ Refer to the Inria charter for what to do if you want to include some logos.
 - ↪ this second level itemize is cool, right?

- The (infinite) INLP loop
- > Be concise.
 - ↪ Avoid long narrative text spans,
 - ↪ instead, itemize or enumerate.
 - > Be precise.
 - > Be illustrative.
 - > Be self-contained.
 - > Ensure readability at a distance.
 - > Stick to the Inria colors.
 - ↪ you earn extra points if your plots also use those colors!



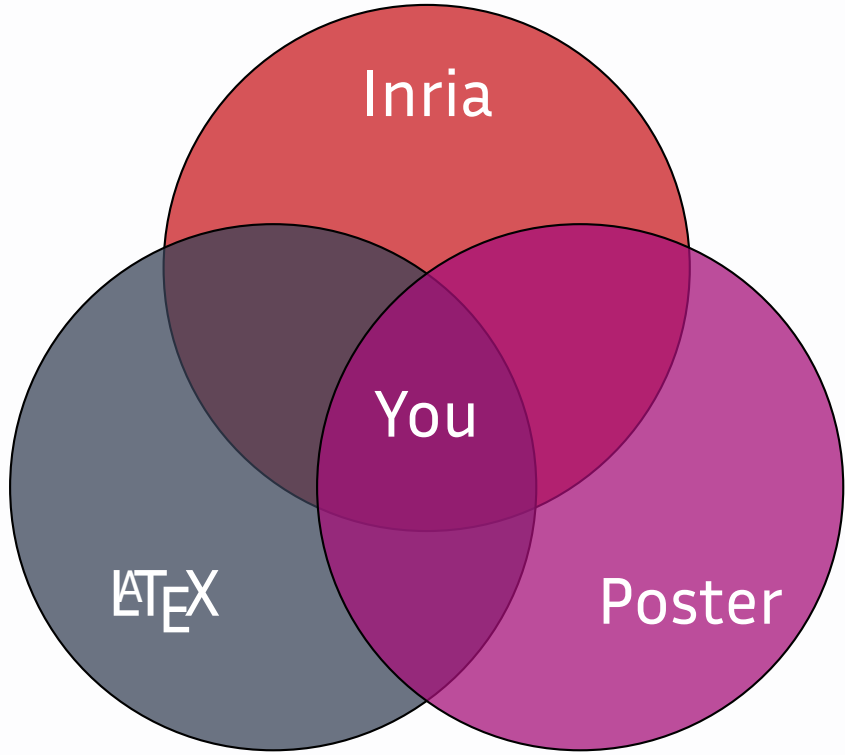
Finding 1. Using `findingblock` to draw attention.

You can use `findingblock` to draw attention to the main findings of the paper.

```
\begin{findingblock}{<Title of finding>}{<inria-color>}{<text of the finding>}
\end{findingblock}
```

- > **inria-color**: rouge, framboise, violet, bleu-nuit, bleu-canard, bleu-azur, bleu-vert, gris-bleu, cactus, vert-tendre, jaune, orange, and sable.
- > **Title of finding**: title of the finding, can be empty.
- > **Note**: This is not part of the Inria charter, but it is a nice addition to the poster template.

- Finding 2. This is actually cool.
- > Lorem ipsum dolor sit amet, consectetur adipiscing elit.
 - > Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
 - > Curabitur dictum gravida mauris.
 - > Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna.



Finding 3. We have other blocks.

takeaway: green block for good news. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

callout: a red block to draw attention. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

inform: to frame some important information or definition. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

Finding 4. Columns inside your findings are your friend.

- > You can organize your content as (nested) columns.
 - ↪ helps to have narrative next to visual elements,
 - ↪ it can be fun.

- Final remarks
- > Use `\begin{inriafinalblock}{header} ... \end{inriafinalblock}` to end your poster.
 - > **Source for this poster is available in:**
 - ↪ <https://github.com/Inria-Chile/inria-latex-poster>
 - > **Inria $\text{L}\text{A}\text{T}\text{E}\text{X}$ beamer template:**
 - ↪ <https://gitlab.inria.fr/gabarits/latex-beamer-2024>
 - > **Inria fonts in $\text{L}\text{A}\text{T}\text{E}\text{X}$:**
 - ↪ <https://gitlab.inria.fr/gabarits/latex-inria-fonts>
 - > **Charter of use of the visual identity of Inria:**
 - ↪ <https://www.inria.fr/en/charter-use-visual-identity-inria>
 - > **More info in Numin:**
 - ↪ https://numin.inria.fr/portal/g:/spaces:71lwaa/base_de_connaissance/notes/106