INOVISUP - BAR & PIE CHARTS

Non-visual reader for bar charts (histograms) and pie charts.

ERGANEO
L'AVENIR EST FAIT D'AUDACE

PRESENTATION

This software automatically detects chart elements (bars, axes, ticks, labels, legends, titles, slices, symbols, borders) from images and makes their content searchable and explorable via a voice and/or text assistant.

Non-visual reader for blind or visually impaired users - Histograms
Circular diagrams - Voice and/or text exploration
Semantic reconstruction - Bar & pie charts - WCAG compliance

COMPETITIVE ADVANTAGES

- Automatic and accurate interpretation of graphic values and associated metadata
- Full software solution requiring no specialized hardware
- Interoperability with existing standars screen readers solution

DEVELOPMENT STAGE

- Prototype completed and tested by a blind expert
- TRL 3-4

INTELLECTUAL PROPERTY

Software protection

CONTACT

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APPLICATIONS

- Access to statistical graphs for blind or visually impaired people
- Transformation of images into navigable and voice-readable structures
- Interactive analysis of graphical data
- Students, scientists, professionals
- Complement to reading textual documents
- Accounting, economics, engineering, business reports, stock market, education

PUBLICATIONS

- Manpreet Kour, Gaetan Hains, Mohamed Saber. Making Charts Accessible: Bar and Pie Chart Interpretations. Accepted for publication at 7th Computing, Communications and IoT Applications Conference (ComComAp 2025), IEEE Madrid december 2025.
- Manpreet Kour, Gaetan Hains, Mohamed Saber. Analysis of Bar Charts and Pie Charts for Blind or Visually Impaired Readers. HAL preprint, October 2025
- Parihar, A., Hains, G., Kour, M., Cormier, K., Gros, K., & Saber, M., Diagram Annotation and Classification for Visually Impaired People in Higher Education. Authorea Preprints. TechRxiv, April 22, 2025

LABORATORIES

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