

EU DATA

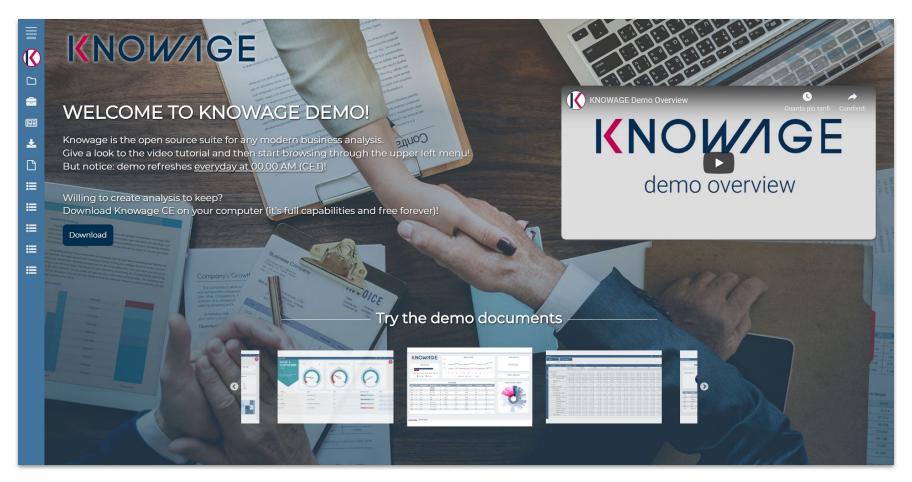
Luxembourg

12 November 2019



Davide Vernassa Front-end developer at Knowage – Engineering Ingegneria Informatica (Italy)

Accessibility in data visualisation



www.knowage-suite.com

1- What does accessibility mean?

Social protection & social inclusion

Social investment

Social protection

Social Protection Committee

Persons with disabilities

United Nations Convention on the Rights of Persons with Disabilities

European disability strategy 2010-2020

European accessibility act

EU disability card

Accessibility standardisation

Access city award

European Social Policy Network (ESPN)

European accessibility act



The European accessibility act is a directive that aims to improve the functioning of the internal market for accessible products and services, by removing barriers created by divergent rules in Member States.

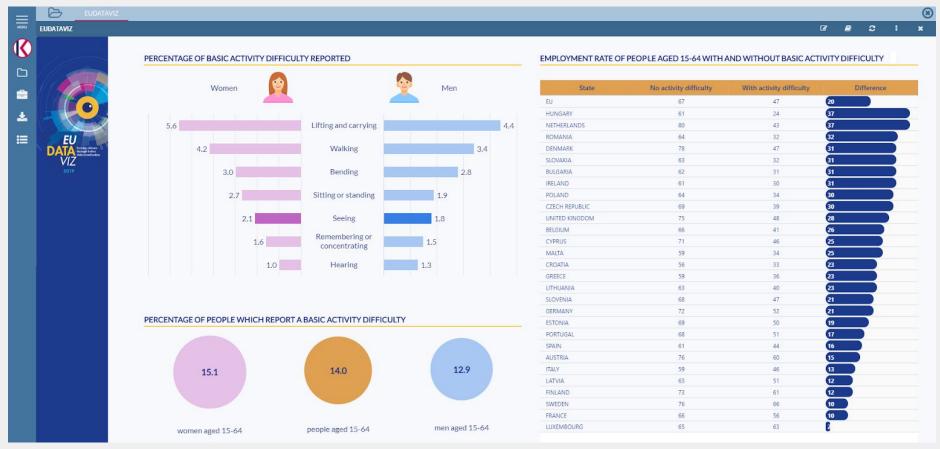








2- Impairments at work



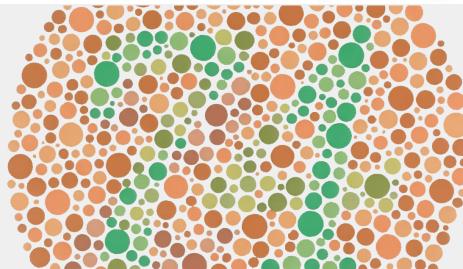
anen, and the Iterets seems to "imup auonrd".

3- And Dataviz?

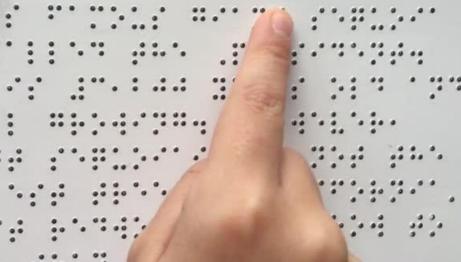
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e see deyxilsa as diicntst from raiedng duififctiles retniulsg form otehr causes, as a non-nIraocieougl deicifncey with viison or henairg, or poor or iadtuaqene

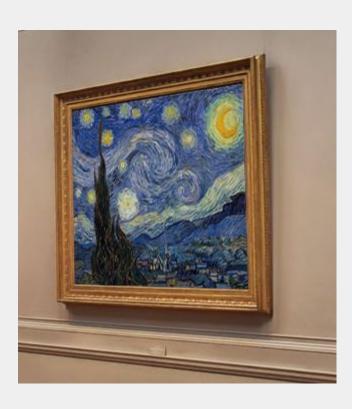








4- The ARIA importance

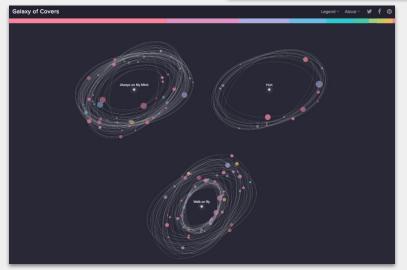


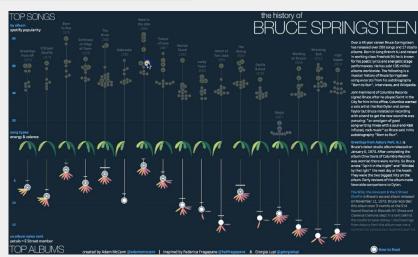
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<div class="frame1928"
    aria-label="The starry night - Vincent Van Gogh 1889">
        <img src="picture1928" role="img" />
</div>
```



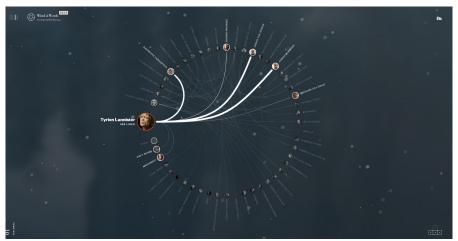
5- Mouseless navigation







6- Mouseless navigation

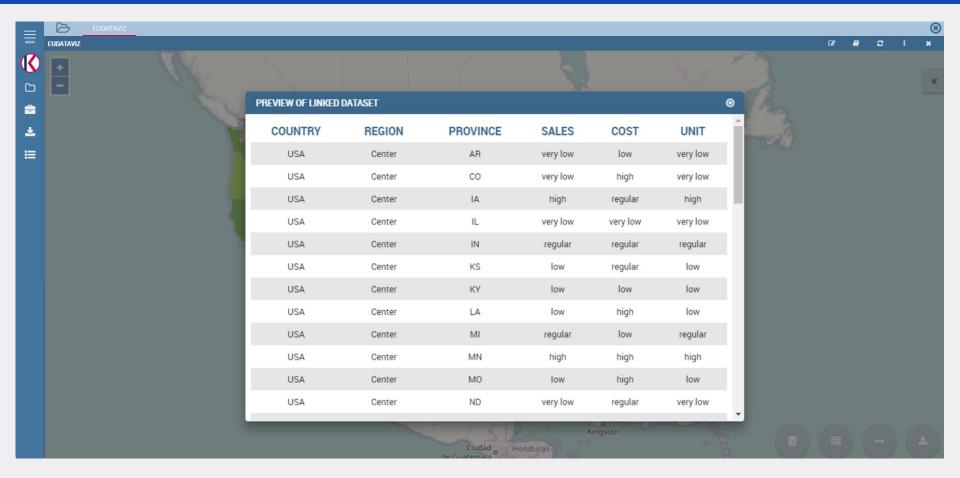






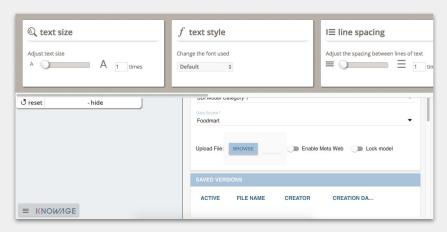


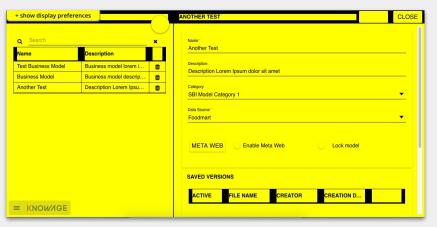
7- From plain data to ranges

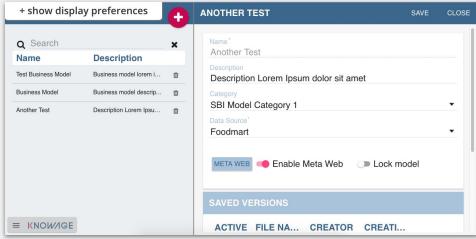




8- Clear visibility







9- Clear visibility





• 10- Sonification



11- Sonification





FINANCIAL TIMES

Conclusions

Links & Resources

Accessibility act

https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=COM%3A2015%3A0615%3AFIN

European health research

https://ec.europa.eu/health/sites/health/files/state/docs/2018 healthatglance rep en.pdf

Fluid project documentation https://docs.fluidproject.org

Prosperity4all website http://www.prosperity4all.eu/

ARIA w3c documentation https://w3c.github.io/using-aria/

WCAG

https://www.w3.org/WAI/standards-guidelines/wcag/

Financial Times:Sonification: turning the yield curve into music https://www.ft.com/content/80269930-40c3-11e9-b896-fe36ec32aece

Things I learned by pretending to be blind for a week https://silktide.com/blog/2013/things-i-learned-by-pretending-to-be-blind-for-a-week

Accessible Rich Internet Applications (WAI-ARIA) 1.1 https://www.w3.org/TR/wai-aria/

ARIA in HTMI

https://www.w3.org/TR/html-aria/#sec-strong-native-semantics

Beta Winds and Words (mouseless example) http://beta.wind-and-words.com/

Colorblind friendly palette https://venngage.com/blog/color-blind-friendly-palette/