

Project PxWeb 2

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Statistisk sentralbyrå
Statistics Norway

Agenda

Project PxWeb 2

Experience

Delivery



Users of PxWeb today



Two project goals

The project will develop a new user interface based on PxWebAPI 2

The project will test and establish good and ongoing collaboration processes between SCB and SSB at both the operational and management levels in the further development of the PX tools



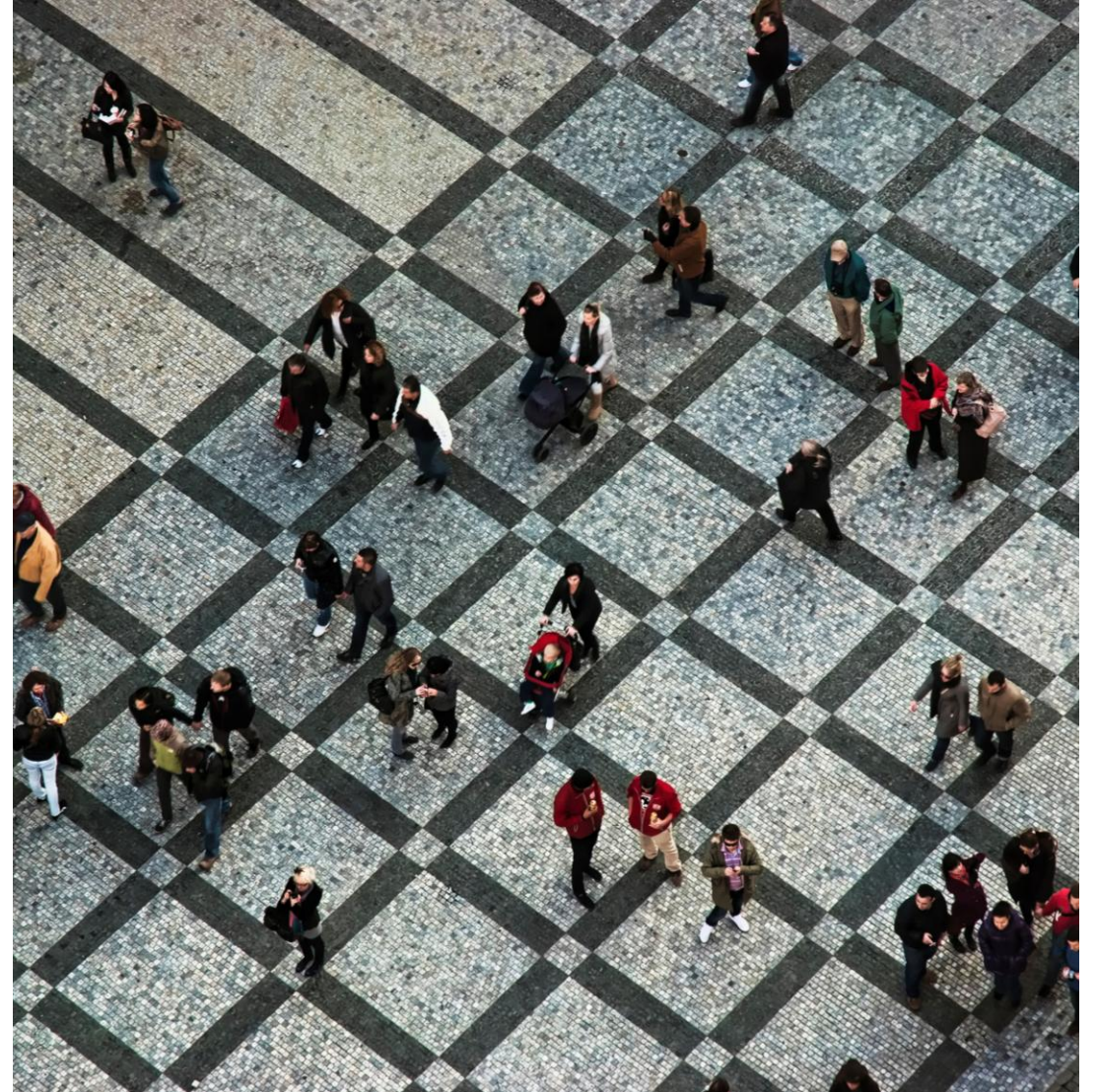
Project resources from SSB and SCB

- Steering group
- Projectleader and Scrum Master
- 4 Developers
- Architect and Tech Lead
- UI/Ux designer
- Testresources



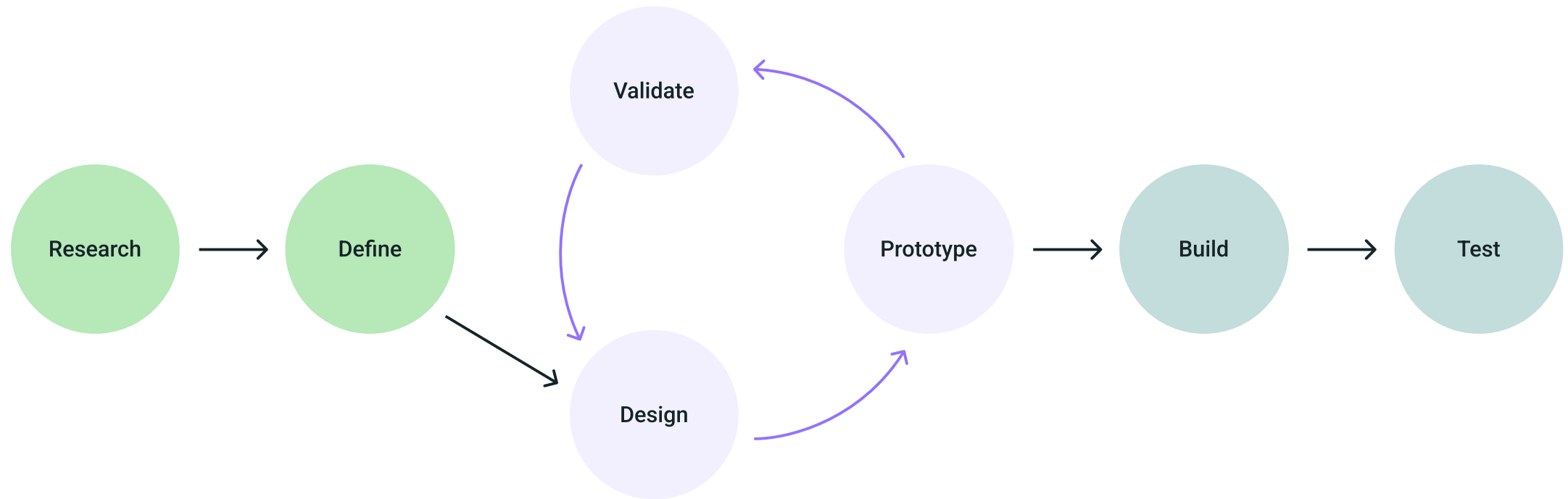
Target group

- Statistics Sweden – expert users
- Statistics Norway – the general public



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The UX design process



Benefits

- Focus on user-friendly application
- The developers who know PxWeb best from both countries are working together
- The UX designer works closely with the team all the time
- Good help from supporting roles
- Common goal of open-source project



Display of data in the tables

- Algorithm for choosing the best result for displaying a table for both database solution and Pxfiles
- Change the default table with saved query

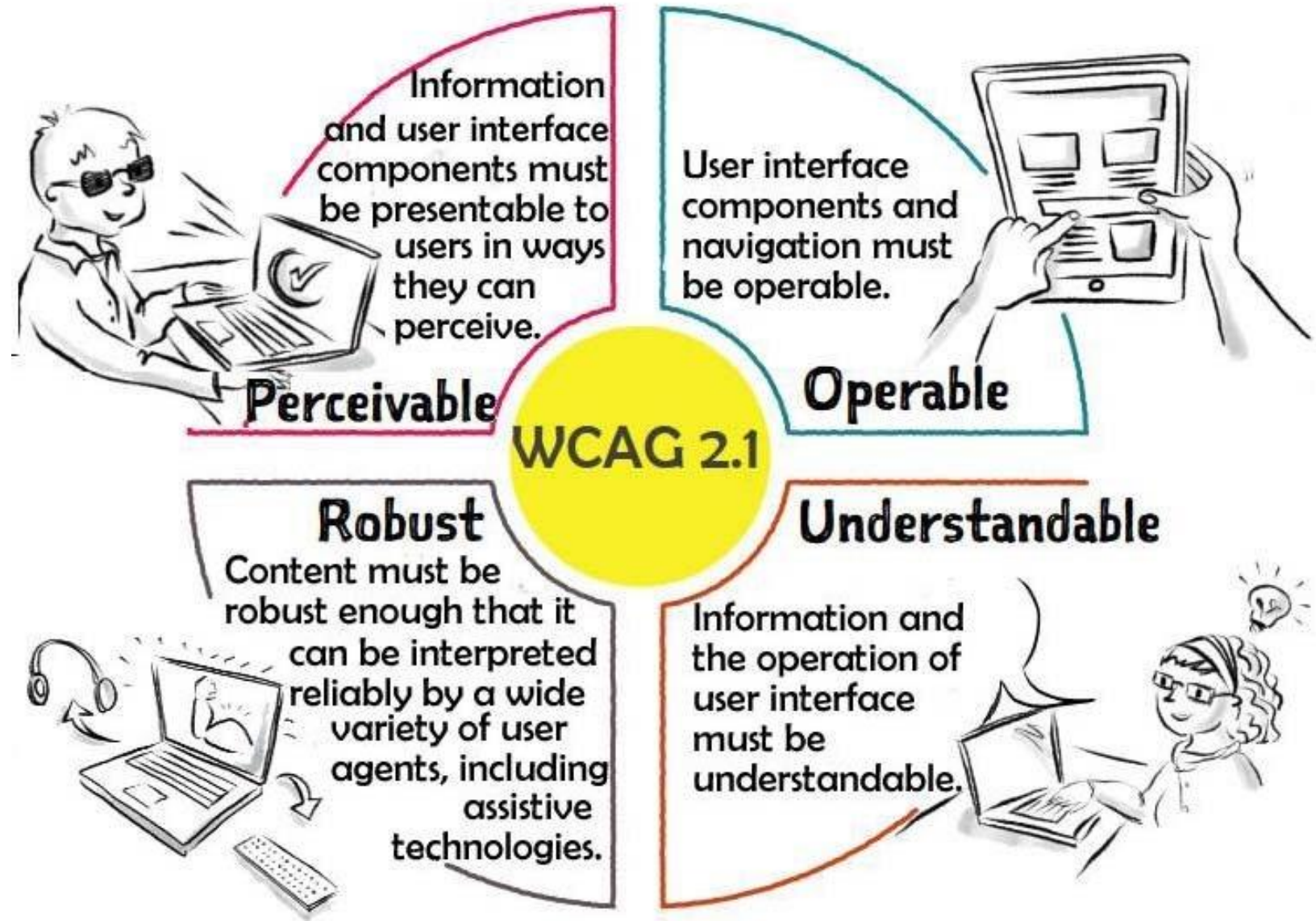


SEO - Search engine optimization

1. Continuously improving performance/page speed
2. Optimizing the mobile version
3. Setting canonicals URLs



WCAG 2.1



Change link in notes (Footnotes)

- Translate Link from HTML to Markdown in Notes
- Changes because of security

[linktext](<https://foo.bar>)

[<https://foo.bar/>](https://foo.bar)



New solutions in a new interface

- Saved Query instead of algorithm
- Change saved query to another format
- Convert old saved queries



Change options in PxWeb 2.0

Main goals – easy to change before and after installation, possible to see that it is a Px product

- Colors
- Font
- Rounding in the corners of element



Test and Quality in PxWeb 2.0

-  **Dedicated test leader from SSB** to ensure scalable and reliable quality
-  **Test strategy defined:** environments, test types, tools, responsibilities
-  Combination of **automated, manual, and user testing**
-  **Performance focus with JMeter load tests**, including comparison between Px-API v1.0 and v2.0

Testing Approach and Collaboration

- 🤖 **Automation with Mabl**
 - End-to-end regression tests across tables and browsers
 - Accessibility and API test coverage
 - Runs scheduled and integrated into pull requests
- 💻 **Manual testing** by colleagues from SCB and SSB, plus several user tests



Project experience

Risk – can affect schedule

- New development language
- New technical platform
- PxWebApi 2 was not in production
- Few resources and sickness in the team
- New collaboration tools for the team
- Four departments divided between SCB and SSB will work together



Team work accross boards - experiences

- Different routines
- New programming language
- Many new programs to learn
- Things take time
- Access and license to common tools
i.e.
 - Jira, Figma, Storybook, Chromatic, Teams, Confluence
- Book meetings



Daily work in Teams-channel

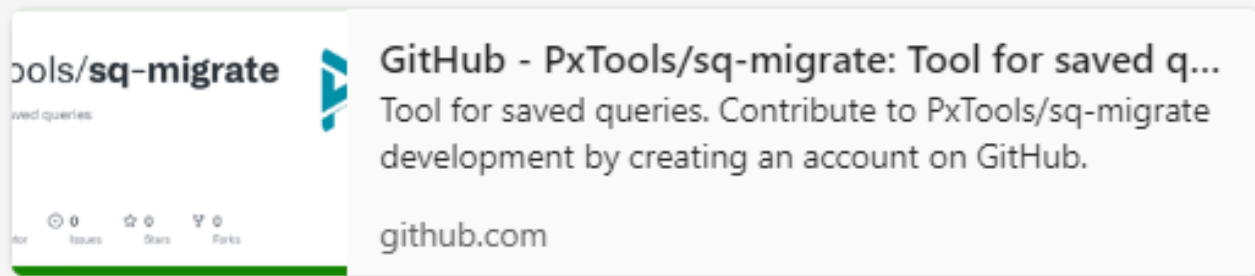


18.9 12:36 Møtet startet

Petros Likidis (Ekstern) 18.9 12:46



<https://github.com/PxTools/sq-migrate.git>



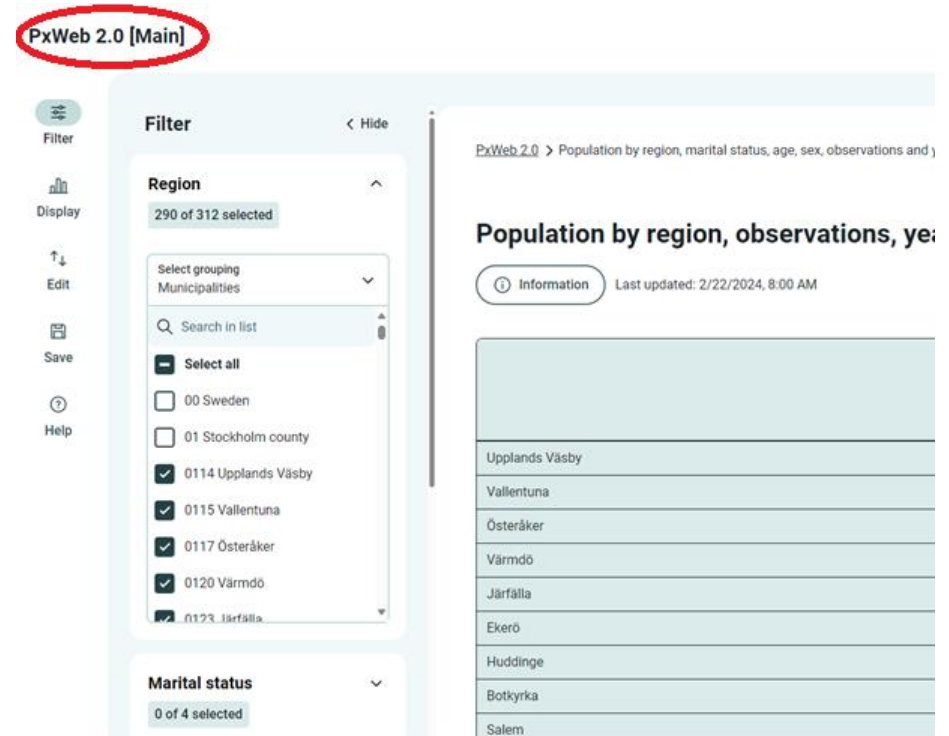
18.9 15:48 Møtet avsluttet: 3h 12m 15s



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Definition of Done

- Acceptance criterias are fulfilled
- UX and testers has approved
- Code is double checked
- Unit tests are completed
- Automatic tests end to end tests (to come)
- Done - merged to the main branch



Continuous releases

- End of each sprint - release to Github
- Test tables
 - [PxTools/PxWeb2](#)
 - [Project page](#)



What the project participants have liked:

- Learning and development
- Good design and sketches
- Frequent code deployments, good testing, good tools
- Project management and organization
- Collaboration and team dynamics



What we where missing in the project

- More physical meetings
- Celebrating all the goals we have reached together
- More help from experienced react-developers at first
- Work 100% on the project



What we have learned

- Important to maintain good communication
- Shared goals
- Collaboration between the two countries works very well



Project deliverable

Main deliverable

- PxWebAPI 2 was launched as planned september 1
- We launch PxWeb 2 here today - october 8



New logo in PxWeb 2



PxWeb



PxWin



PxEdit



PxMeta



PxWebApi



PxTools



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New startpage for PxWeb 2

Search table

Filter with different options

- Topic
- Year
- Variable
- Region

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3 språk 

 Søk

[Forsiden](#) > [Statistikkbanken](#)

Statistikkbanken

Her finner du alle tallene våre samlet på ett sted. Bruk søk og filtrering for å finne tabellene du trenger. På grunn av personvern hensyn kan ikke tabellene kombineres. Oppdatering av Statistikkbanken skjer hver dag klokken 08:00.

[Mer om Statistikkbanken](#) 

 Søk i Statistikkbanken

Filter

 **Emne**

 Arbeid og lønn (1 250)

 Bygg, bolig og eiendom (698)

 Energi og industri (799)

 Helse (571)

 Inntekt og forbruk (528)

 Innvandring og innvandrere (2 281)

 Jord, skog, jakt og fiskeri (600)

 Kultur og fritid (475)

 Nasjonalregnskap og konjunkturer (141)

 Natur og miljø (652)

 Offentlig sektor (915)

 **Årstall**

 **Regionalt nivå**

 **Alder**

 **Tidsintervall**

 **Variabel**

Treff på 7 291 tabeller

 **Utenrikshandel med varer, etter varenummer (HS) og land**

1988–2024 Månedlig  Oppdatert 15.10.2024

08799

 **Konsumprisindeks, etter konsumgruppe (2015=100)**

1979–2024 Månedlig  Oppdatert 10.10.2024

03013

 **Yrkesfordelt månedslønn, etter sektor, kjønn og arbeidstid**

2015–2023 Årlig  Oppdatert 05.02.2024

11418

 **Sysselsetting, arbeidsledighet, arbeidsstyrken og utførte ukeverk, etter kjønn og alder. Sesongjusterte tall og trend, 3-måneders glidende gjennomsnitt (avslutta serie)**

2006–2020 Månedlig  Oppdatert 28.01.2021

08931

 **Endringer i befolkninga i løpet av kvartalet, for kommunar, fylke og heile landet (K)**

1997–2024 Kvartalsvis  Oppdatert 21.08.2024

01222

 **Utenrikshandel med varer, hovedtall, etter land/handelsområde/ verdensdel (mill. kr)**

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Tablepage for PxWeb 2

PxWeb 2.0 [Main]

Svenska

- Algorithm for displaying the best table when you start
- Choose more values from filter

Filter

Display

Edit

Save

Help

Filter

< Hide

Region

14 of 290 selected Mandatory

Select grouping Municipalities

Search in list

Select all

☒ 0114 Upplands Väsby

☒ 0115 Vallentuna

☐ 0117 Österåker

☐ 0120 Värmdö

☐ 0123 Järfälla

☒ 0125 Ekerö

☐ 0126 Uddevalla

Marital status

0 of 4 selected

Age

0 of 101 selected

Sex

2 of 2 selected

PxWeb 2.0 > Population by region, marital status, age, sex, observations and year

Population by region, sex, observations and year

Information Last updated: 2/21/2025, 8:00 AM

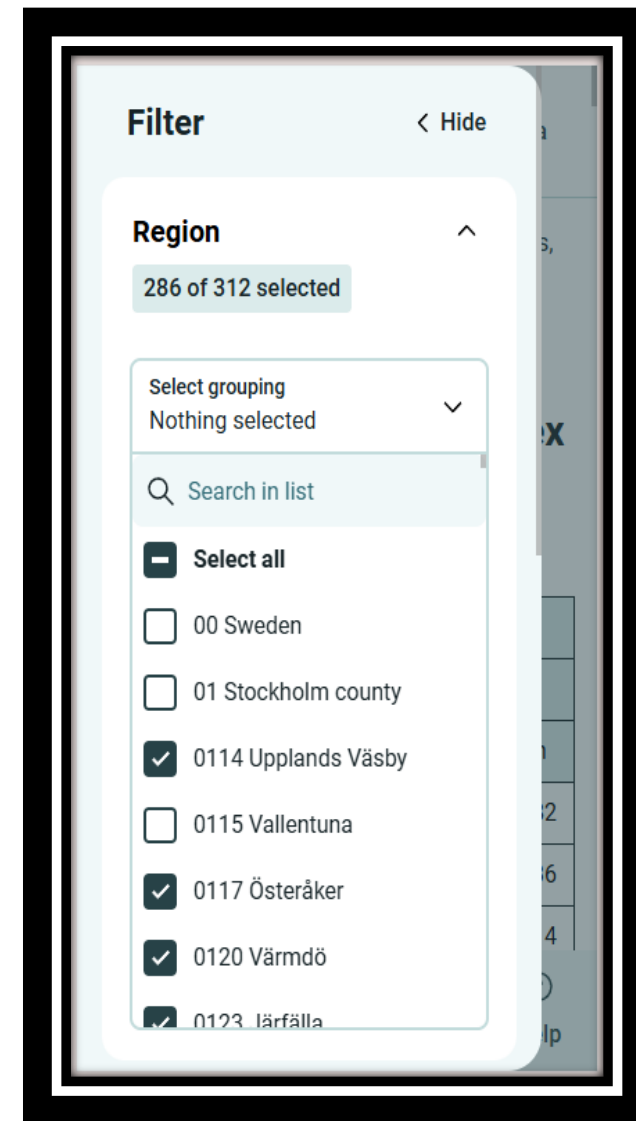
	Population			
	2023		2024	
	Men	Women	Men	Women
0114 Upplands Väsby	25,328	24,782	25,395	24,928
0115 Vallentuna	17,811	17,265	17,778	17,341
0125 Ekerö	14,539	14,269	14,590	14,320
0139 Upplands-Bro	16,668	15,785	16,834	16,034
0380 Uppsala	120,818	124,511	121,624	126,392
0686 Eksjö	8,917	8,833	8,974	8,818
0760 Uppvidinge	4,848	4,415	4,749	4,312
1264 Skurup	8,476	8,385	8,576	8,523
1484 Lysekil	7,017	6,952	6,985	6,922
1485 Uddevalla	28,563	28,482	28,511	28,499
1814 Lekeberg	4,454	4,152	4,454	4,152
2029 Leksand	8,098	7,945	8,158	7,979
2184 Hudiksvall	18,886	18,759	18,824	18,704
2281 Sundsvall	49,837	49,376	49,666	49,382



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Mobile

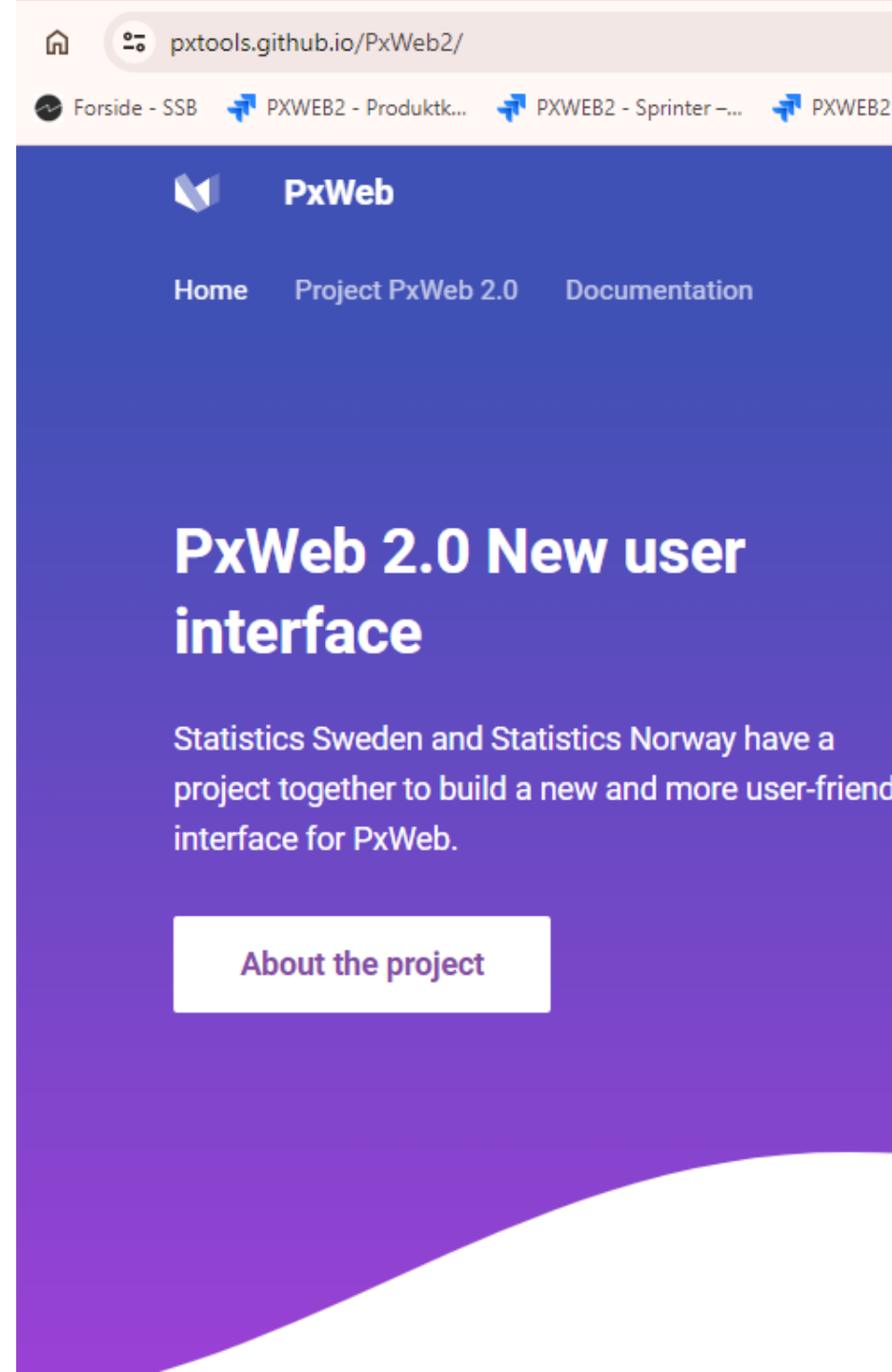
- Table with one column
- Tools at the bottom of screen
- Open filter as in desktop



Information about the project on GitHub

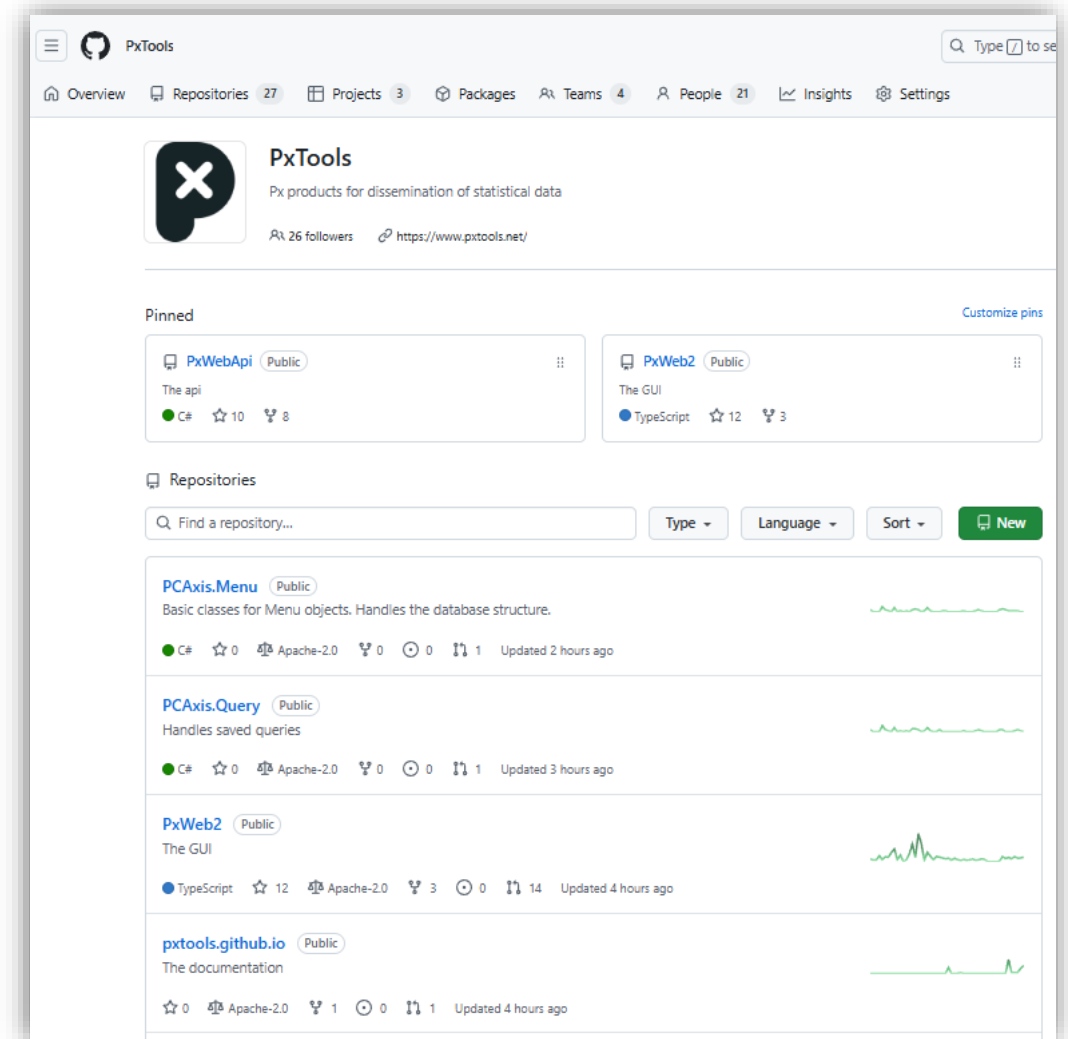
<https://pxtools.github.io/PxWeb2/>

- Information hub



PxWeb Open Source on GITHUB

- Product page on GITHUB
- New user-interface with installation link for PxWeb 2 and documentation can be found on this page
- How to get an overview of user organisations?
- Open-source means that everyone can use PxWeb 2



Thank you!

