

Chapter 1, Episode 3: Situational impairments, aging, and inclusive design

Permanent

Touch



One arm

Permanent

Temporary

Touch



One arm



Arm injury

Permanent

Temporary

Situational

Touch



One arm






Arm injury















New parent

We all experience situational impairment in our daily lives. **Accessibility benefits everyone!**

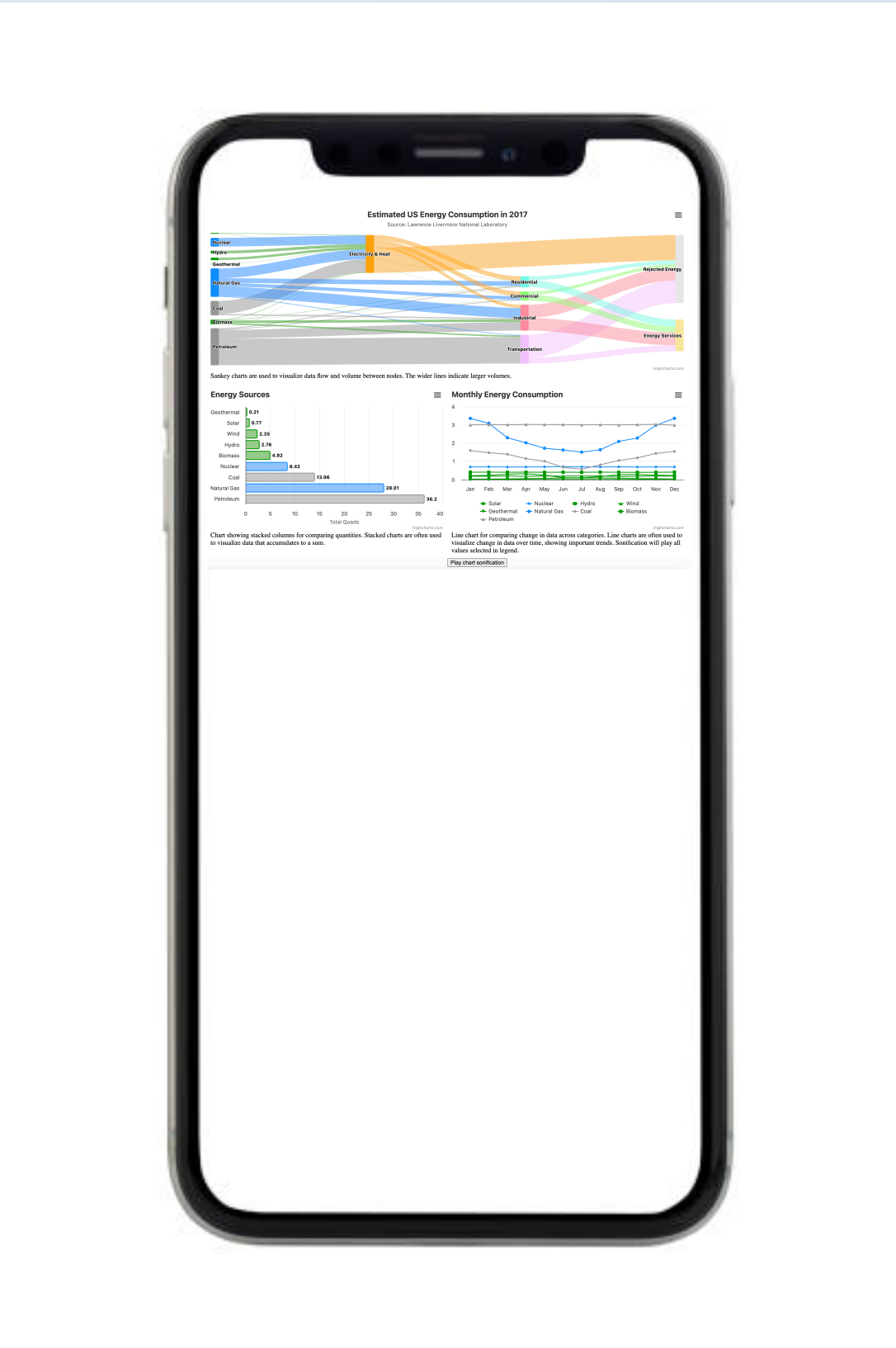
	Permanent	Temporary	Situational
Touch	 One arm	 Arm injury	 New parent

“Design for One, Extend to All”

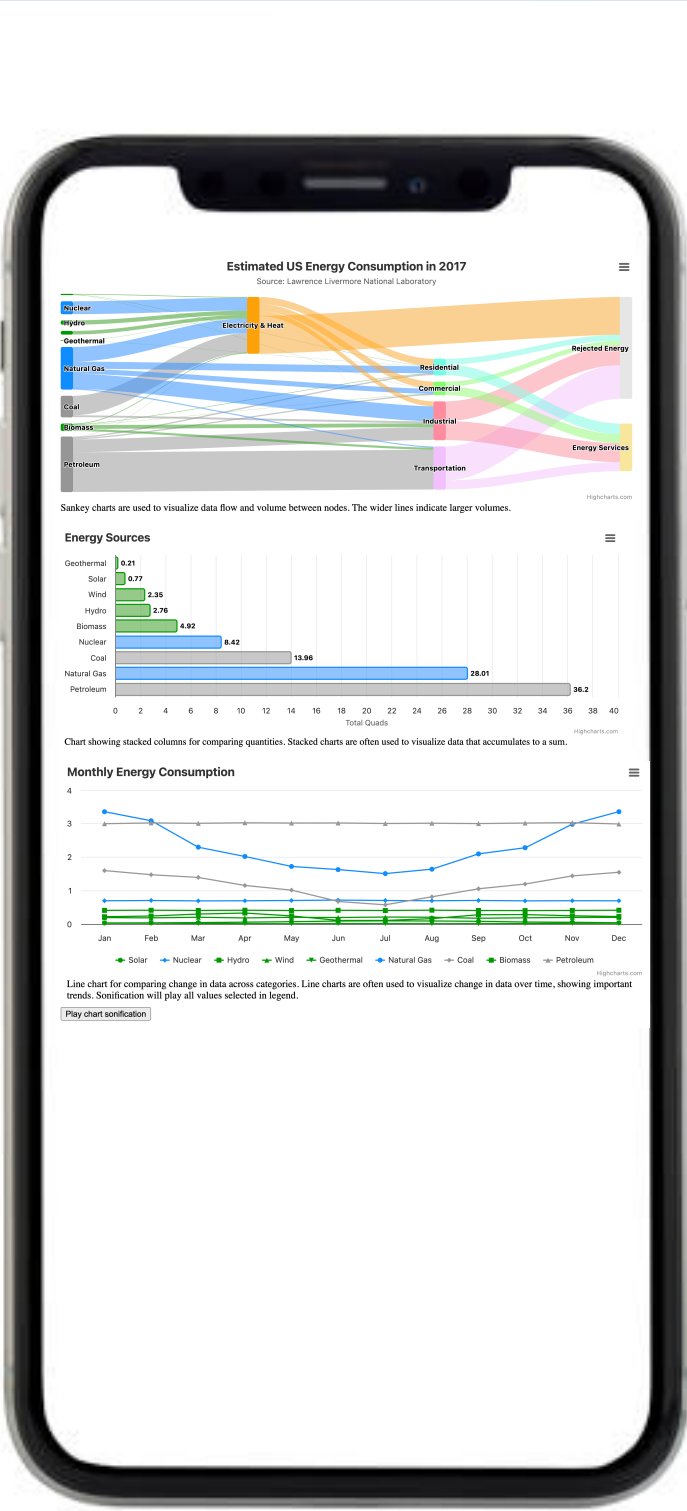
Microsoft’s Inclusive Design 101 Toolkit: https://download.microsoft.com/download/b/0/d/b0d4bf87-09ce-4417-8f28-d60703d672ed/inclusive_toolkit_manual_final.pdf

	Permanent	Temporary	Situational
Touch	 One arm	 Arm injury	 New parent
See	 Blind	 Cataract	 Distracted driver
Hear	 Deaf	 Ear infection	 Bartender
Speak	 Non-verbal	 Laryngitis	 Heavy accent

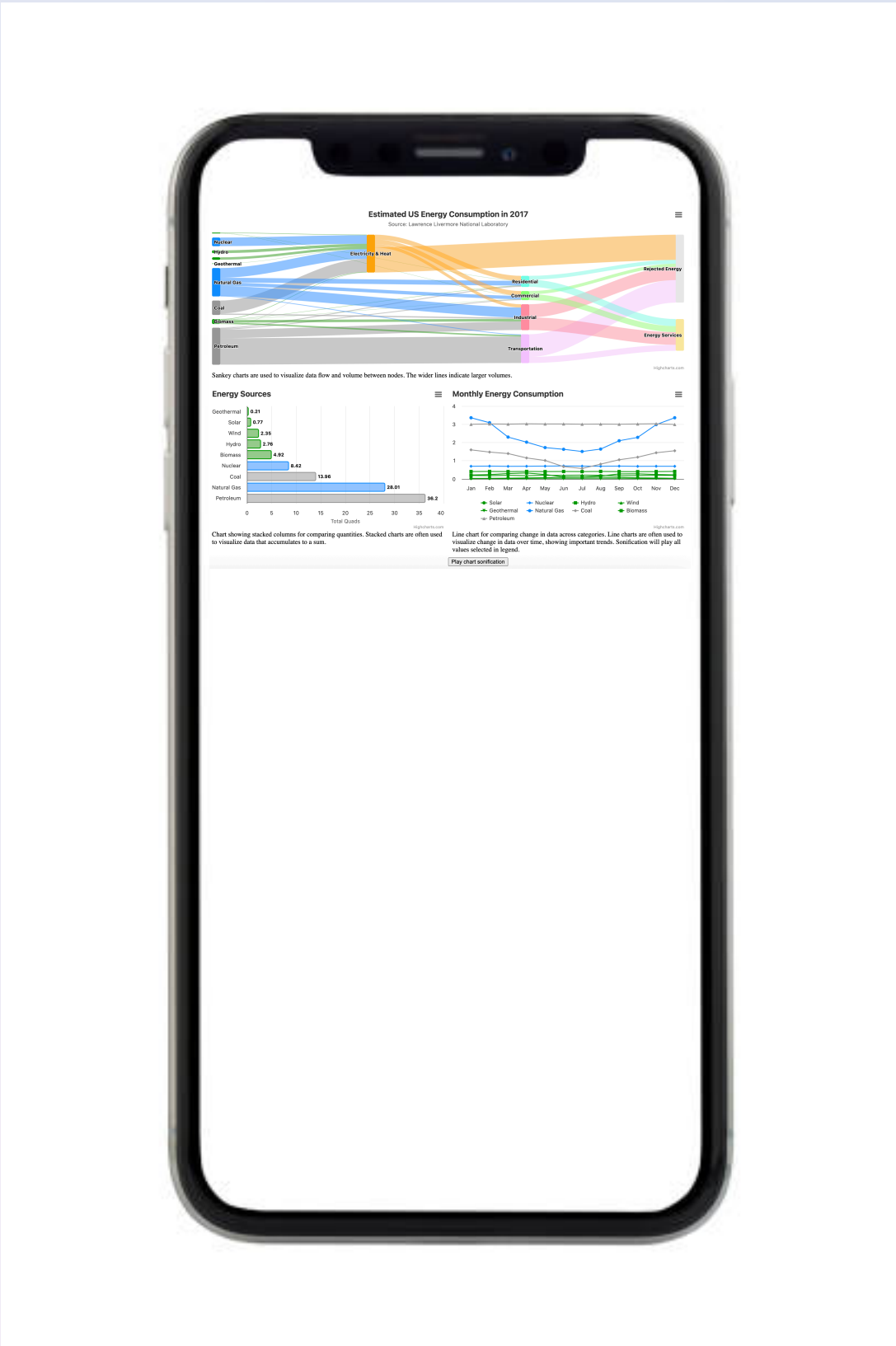
Check out this cool dashboard I made!



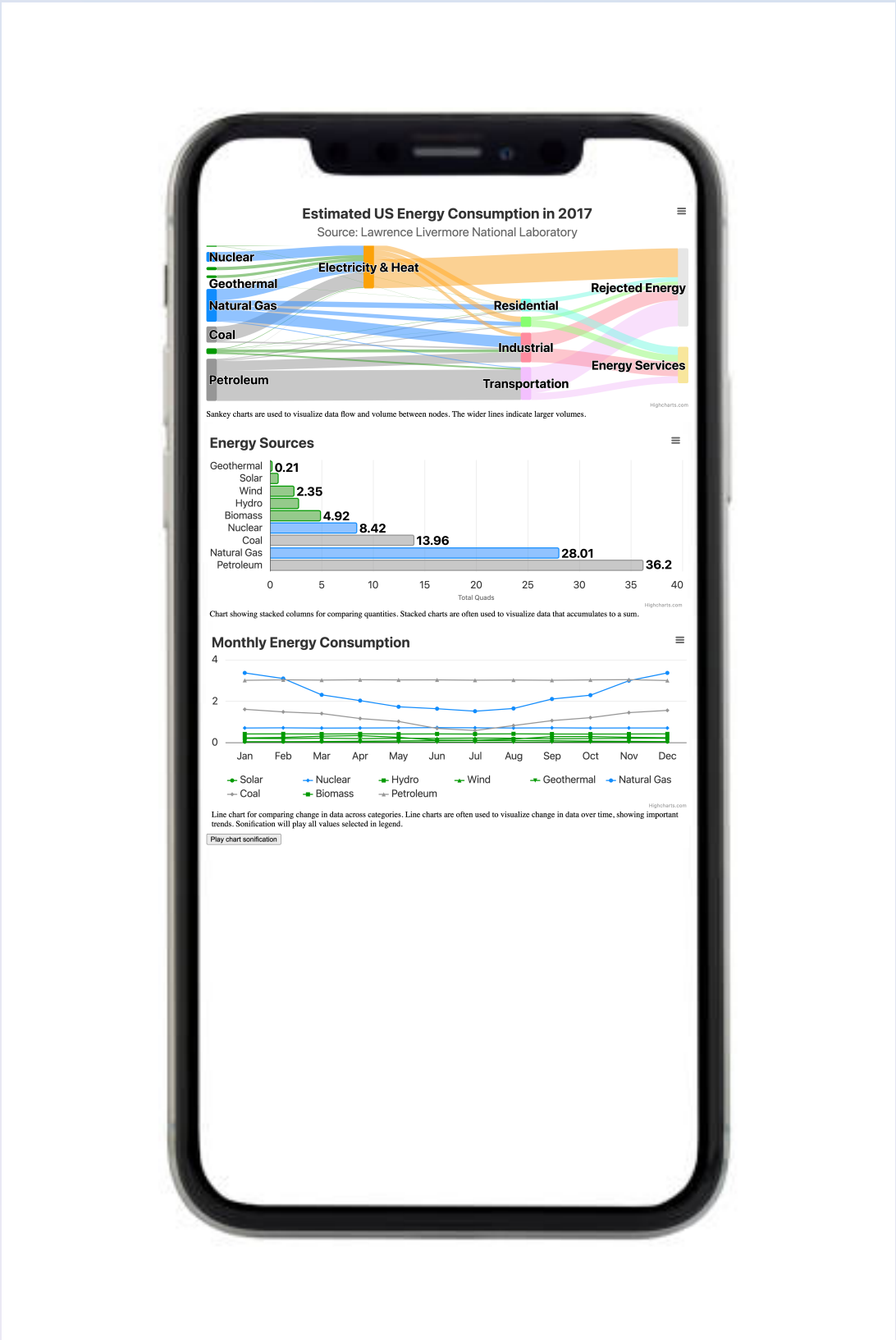
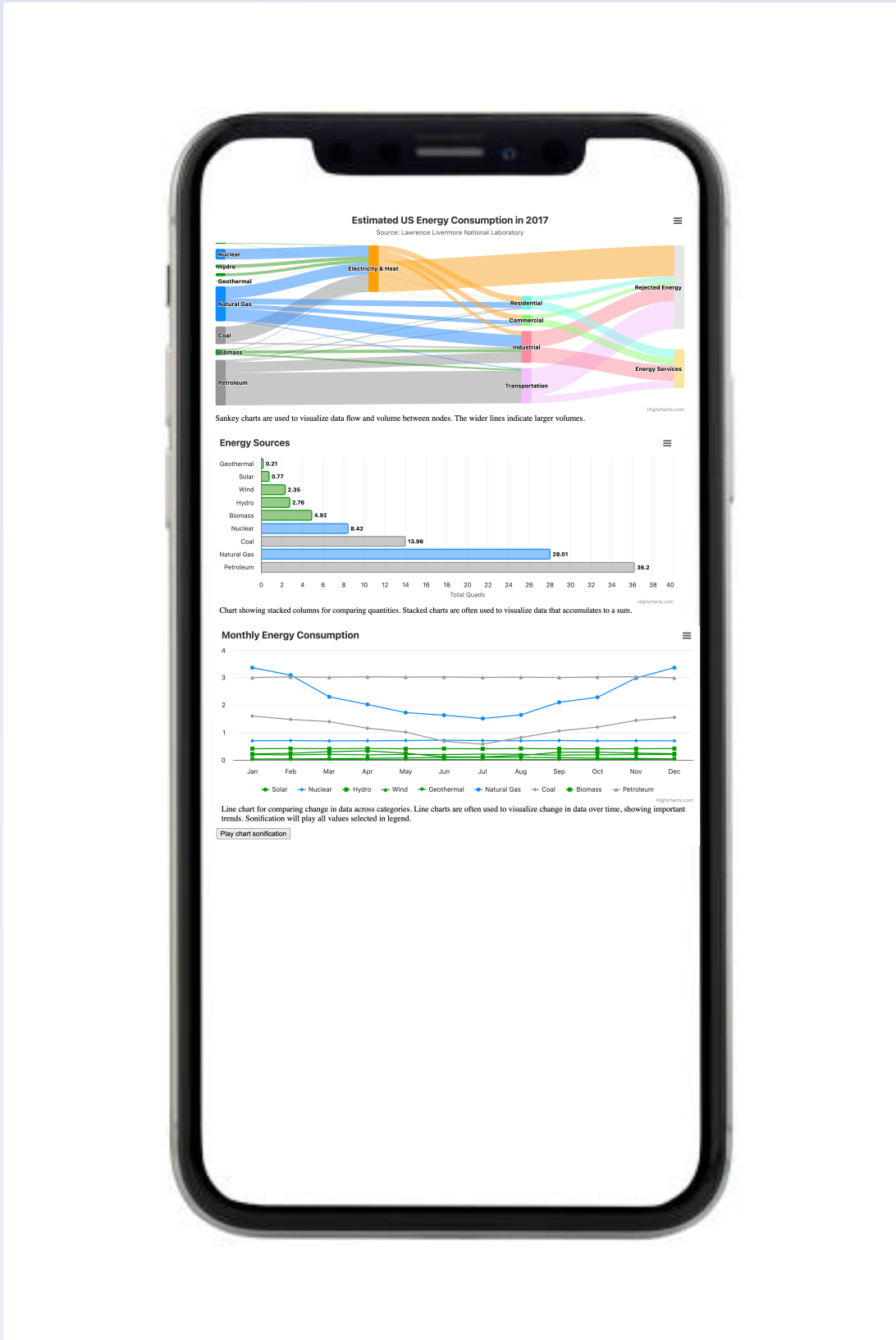
Oh, is it a layout problem?



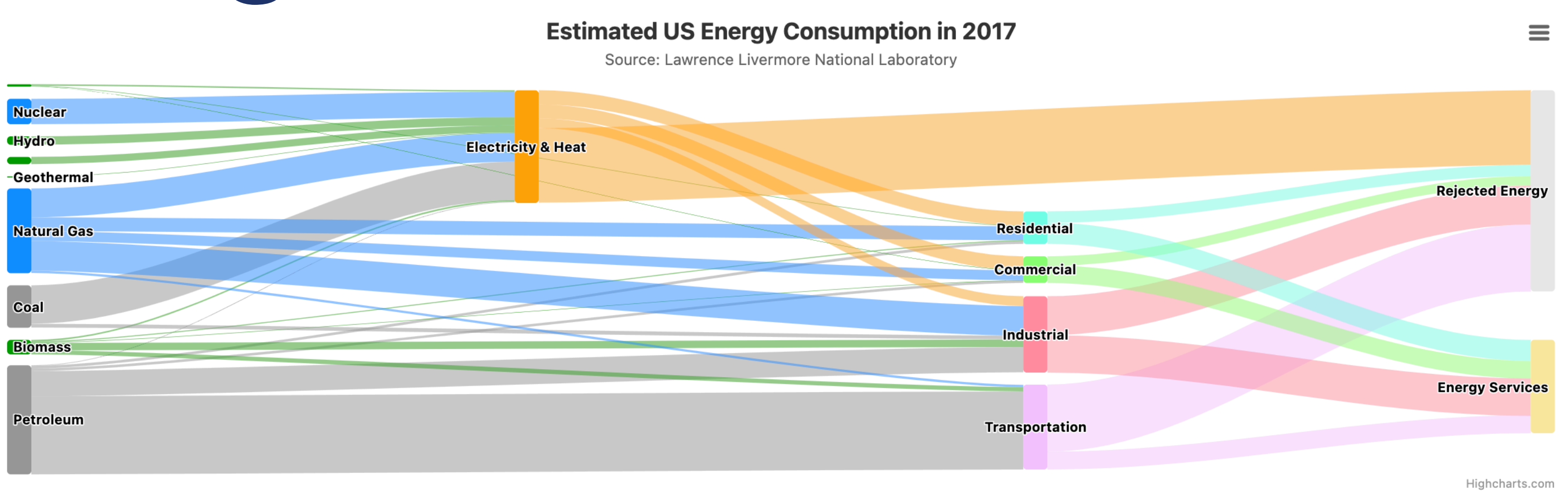
An obvious improvement!



Maybe font size?



Ah, wrong device!



Sankey charts are used to visualize data flow and volume between nodes. The wider lines indicate larger volumes.

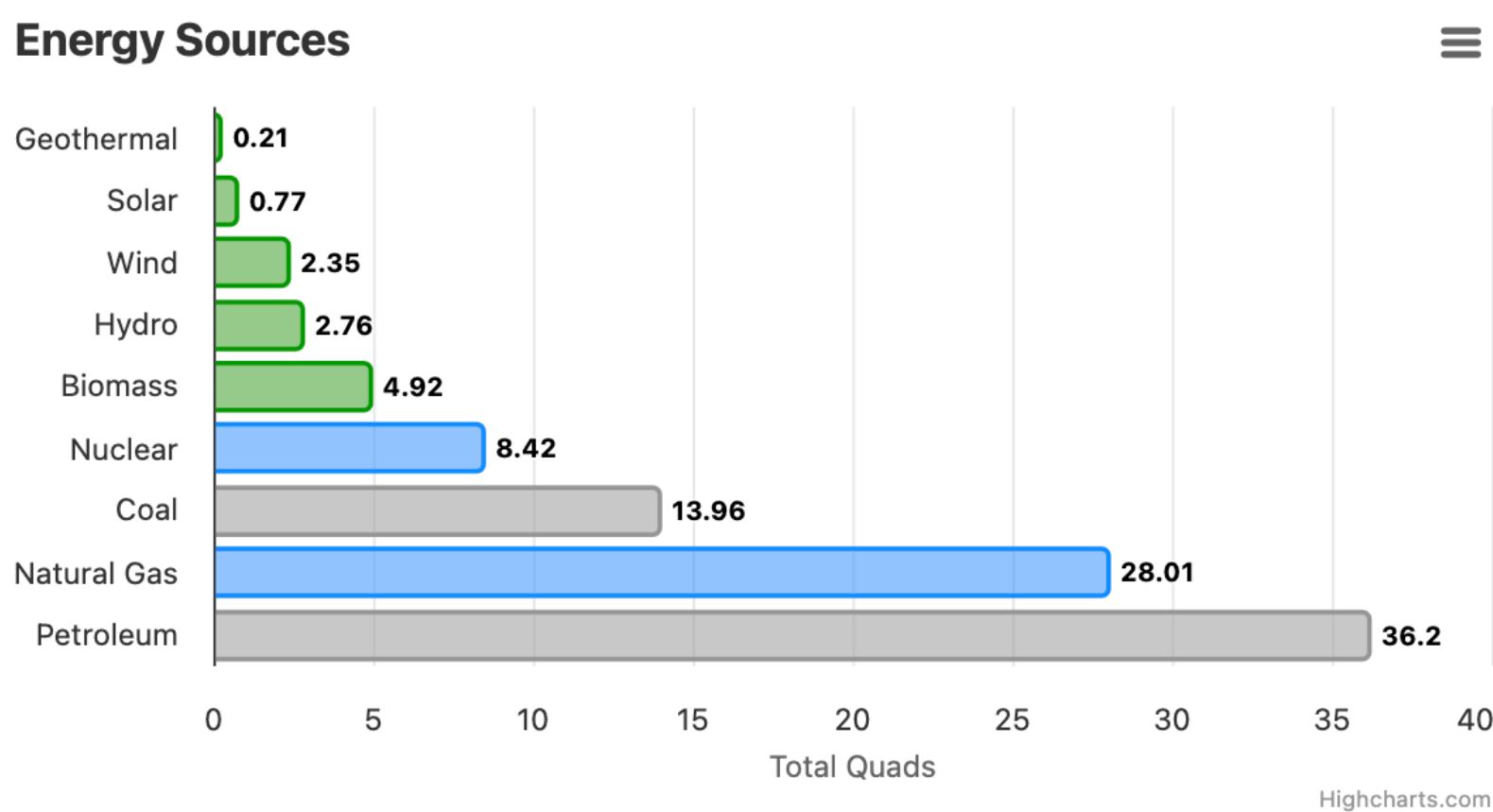
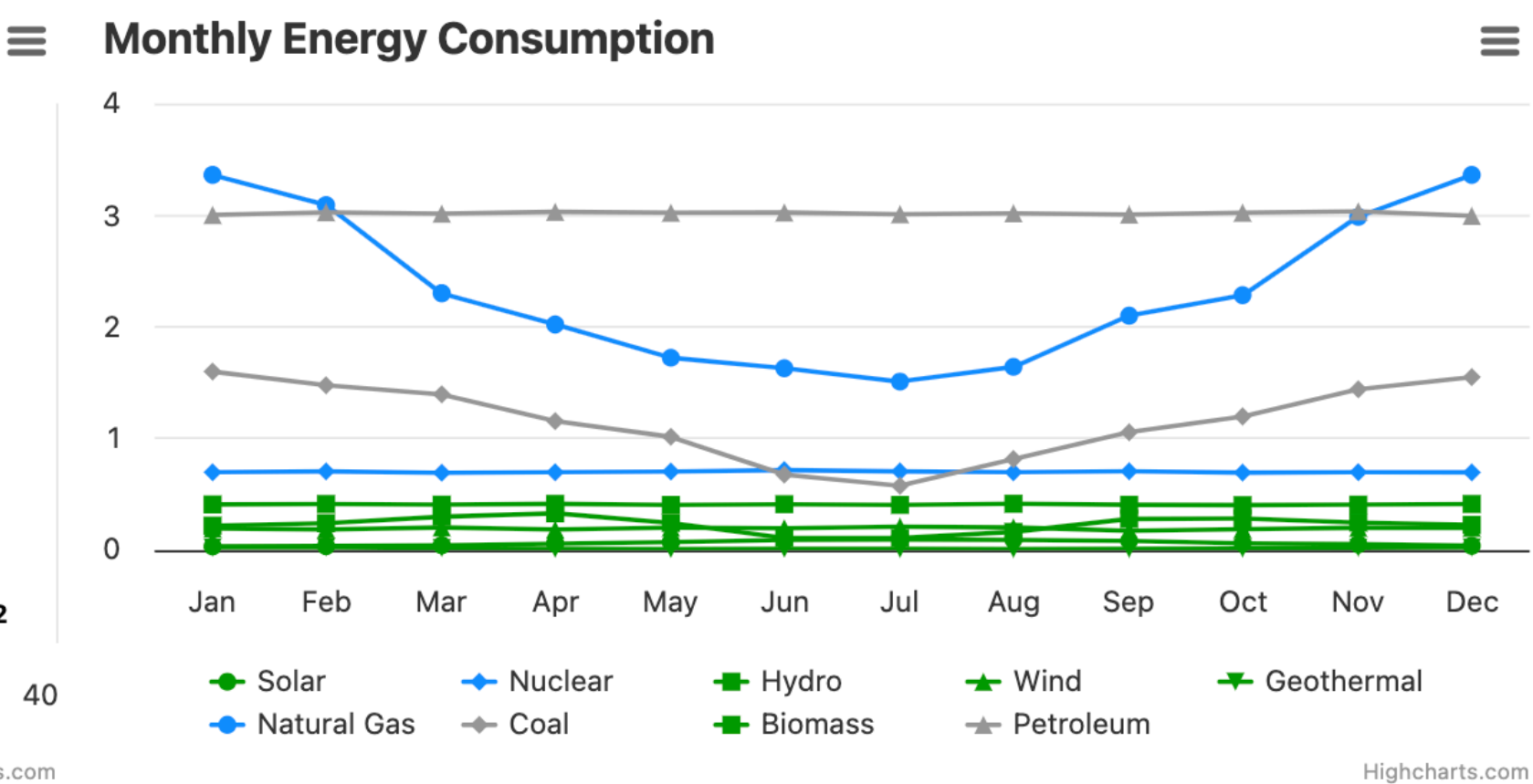


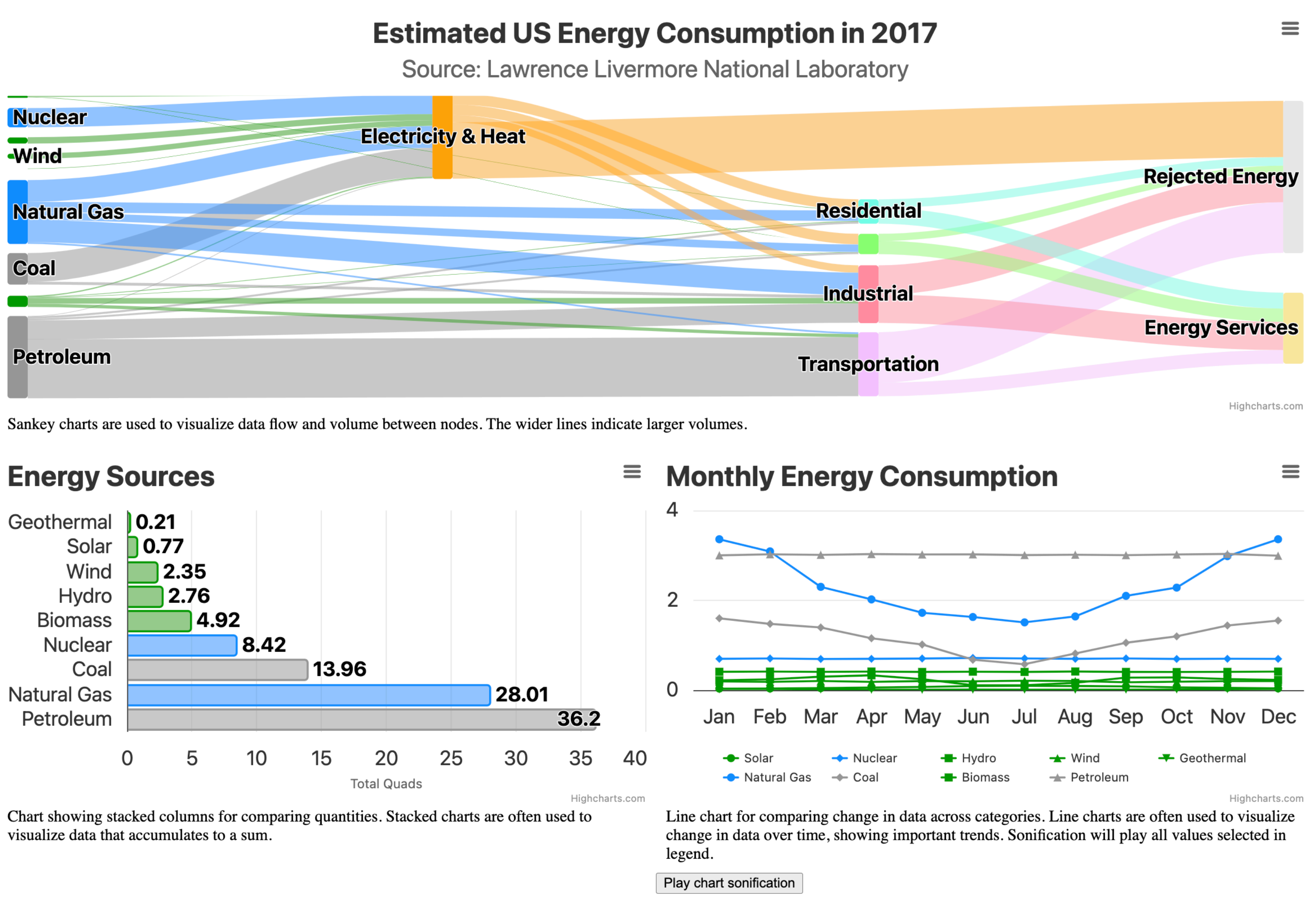
Chart showing stacked columns for comparing quantities. Stacked charts are often used to visualize data that accumulates to a sum.



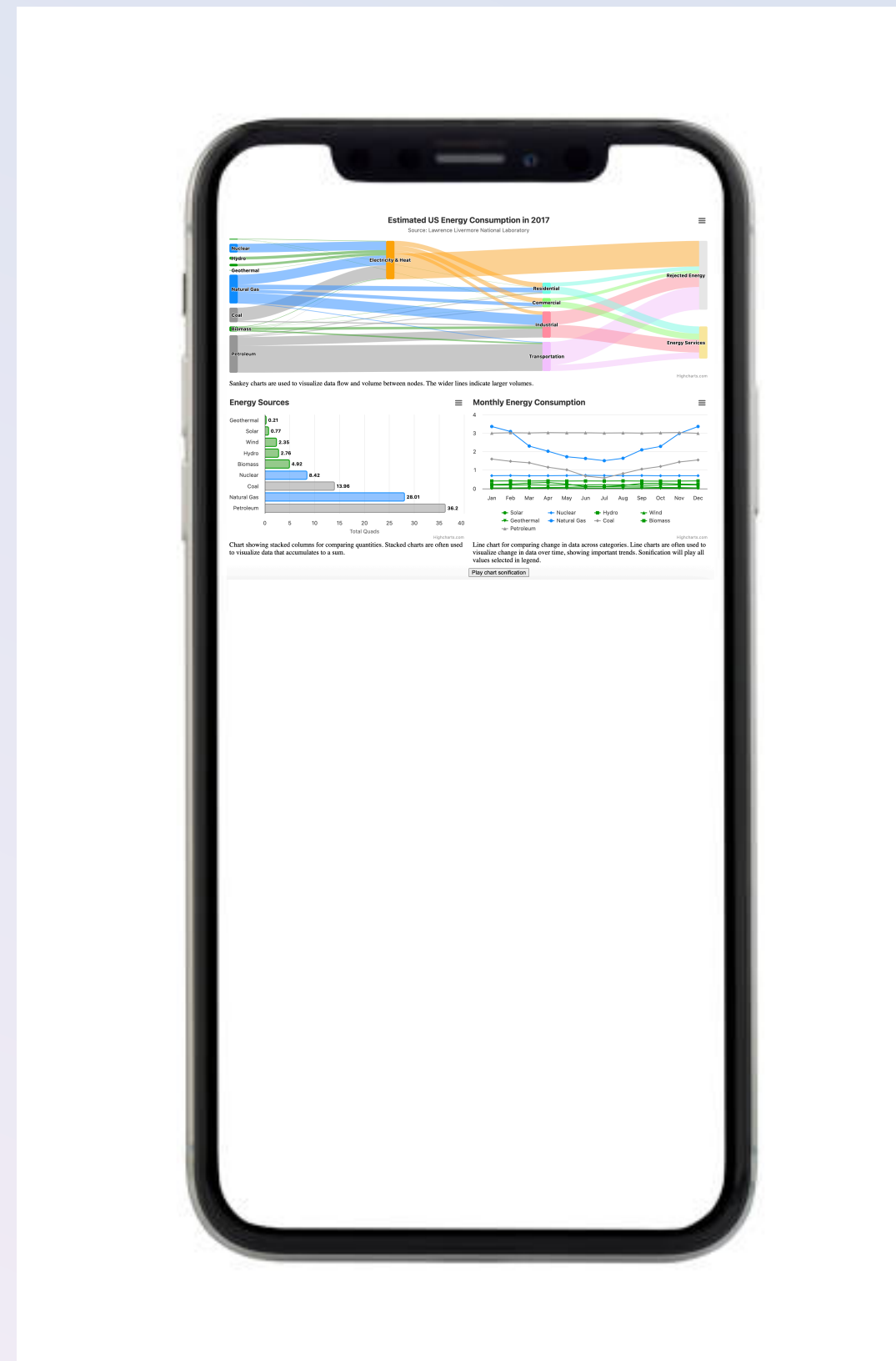
Line chart for comparing change in data across categories. Line charts are often used to visualize change in data over time, showing important trends. Sonification will play all values selected in legend.

Play chart sonification

A more *presentation-ready* dashboard?

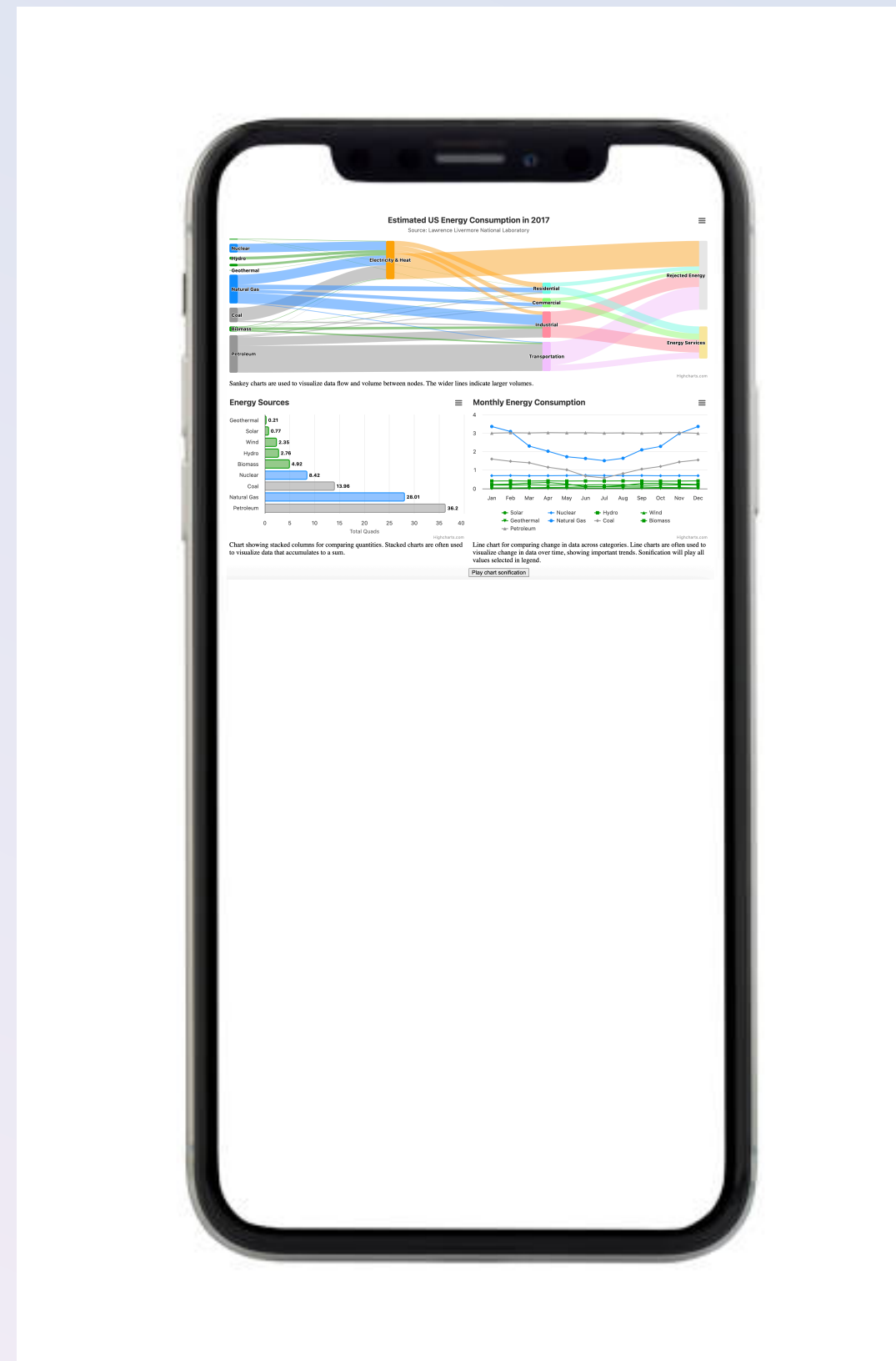


Situational barriers: inaccessibility due to external context, environment, or conditions



Situational barriers: inaccessibility due to external context, environment, or conditions

(This design and this device are both barriers if I want to give a good presentation)

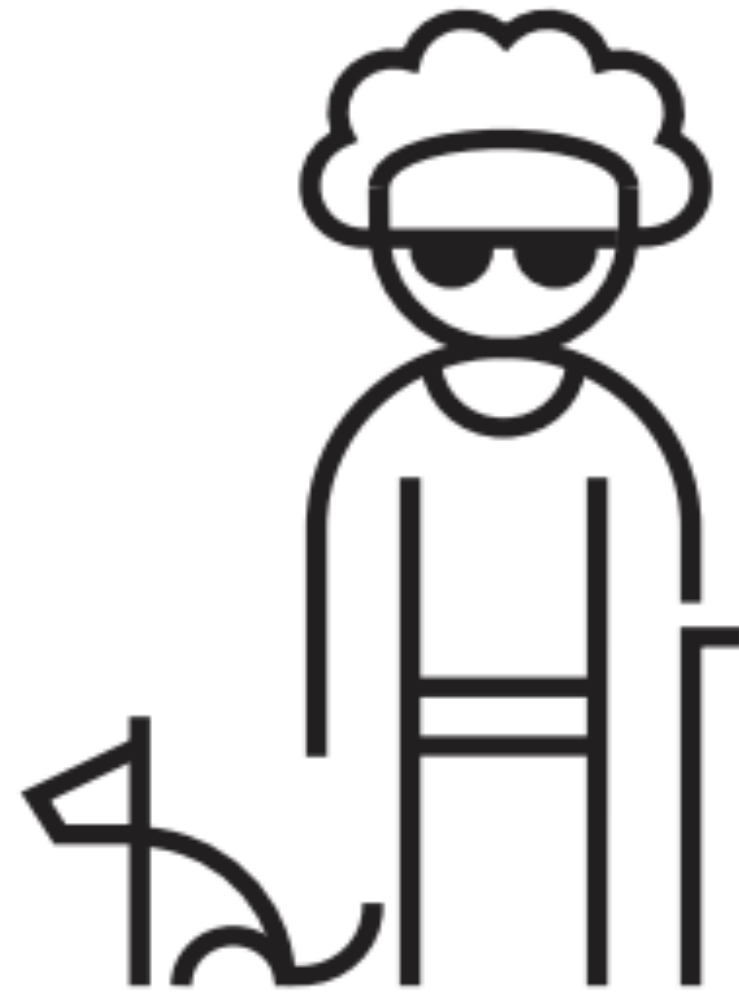


Permanent

Temporary

Situational

See



Blind



Cataract



Distracted driver

Poor design can create situational barriers

