Parking NL: accessibility audit (WCAG 2.2 AA)

11 Oct 2026, production https://parking.davidbroza.dev. Automated: axe-core (wcag2a/2aa/21a/21aa/22aa) on the app (/, detail card, phone search overlay) and /pricing, /terms, /api-terms, /privacy, /data-licenses, /colofon, /developers, /how-it-works, /about, /coverage, in light and dark on Pixel 7 and desktop 1440×900. Also checked: keyboard tab order and visible focus, 200 % text zoom at 320 px, reduced motion, and colour-blindness simulation of the zone palette. Screen-reader semantics were checked through the accessibility tree (names, roles, live regions); no real VoiceOver/TalkBack session was run. The axe check now runs in the `just ship` gate: any serious or critical violation rolls the deploy back.

axe violations (serious/critical, all pages × states × themes × devices): 71 before → 0 after. Lighthouse 12 mobile accessibility: 98.

Before → after by rule

Rule	Impact	Nodes before	Where	Nodes after	Fix
label-content-name-mismatch	serious	46	/ (desktop/dark), / (desktop/light), / (phone/dark), / (phone/light), /api-terms (desktop/dark), /api-terms (desktop/light), /api-terms (phone/dark), /api-terms (phone/light), /colofon (desktop/dark), /colofon (desktop/light), /colofon (phone/dark), /colofon (phone/light), /coverage (desktop/dark),	0	Accessible names now contain the visible text (search bar, language toggle, map menu)
color-contrast	serious	63	/ (desktop/dark), /about (desktop/dark), /about (desktop/light), /about (phone/dark), /about (phone/light), /colofon (desktop/light), /colofon (phone/light), /pricing (desktop/light), /pricing (phone/light)	0	Amber notes → amber-800 / amber-400 (dark); occupancy text via class colours with dark variants; /about now theme-aware
scrollable-region-focusable	serious	50	/coverage (phone/dark), /coverage (phone/light), /developers (desktop/dark), /developers (desktop/light), /developers (phone/dark), /developers (phone/light), /pricing (phone/dark), /pricing (phone/light)	0	Scrollable code blocks/tables are keyboard-focusable (tabindex=0, visible focus ring)

select-name	critical	8	/pricing (desktop/dark), /pricing (desktop/light), /pricing (phone/dark), /pricing (phone/light)	0	Pricing form selects have labels
aria-valid-attr-value	critical	4	/ (desktop/dark), / (desktop/light), detail (desktop/dark), detail (desktop/light)	0	Search combobox aria-controls always points to an existing listbox
link-in-text-block	serious	8	/ (desktop/dark), / (desktop/light), detail (desktop/dark), detail (desktop/light)	0	Map attribution links underlined and blue

WCAG 2.2 AA checklist

Criterion	Status	Evidence
1.1.1 Non-text content	pass	Icons aria-hidden or labelled; type icons role=img with name; map has a full list alternative
1.3.1 Info & relationships	pass	Landmarks (main, aside, dialog), tables with headers, live region for result count
1.4.1 Use of colour	pass	Prices shown as text everywhere; zones also have price labels; links underlined
1.4.3 Contrast (minimum)	pass	axe color-contrast: 0 in light + dark on all pages/states
1.4.4 Resize text (200 %)	pass	No horizontal scroll at 200 % text: {'/?lat=52.0786&lon=4.3134&q=Den%20Haag%20Centraal': 0, '/pricing': 0, '/terms': 0, '/developers': 0, '/how-it-works': 0}
1.4.10 Reflow (320 px)	pass	Tested at 320 css px with 200 % text
1.4.11 Non-text contrast	pass	Zone outlines, focus rings and controls ≥ 3:1; price ramp checked for colour-blindness
2.1.1 Keyboard	pass	60+ tab stops, every control reachable; search, list, detail, sheet chevron, menu all operable
2.4.1 Bypass blocks	pass	Skip link is the first tab stop (“Naar inhoud / Skip to content”)
2.4.3 Focus order	pass	Header → search → mode/time → best card → list → map menu
2.4.7 Focus visible	pass	Elements without visible focus: before ['INPUT:Adres, plaats of postcode'], after []

2.5.3 Label in name	**pass**	axe label-content-name-mismatch: 0
2.5.8 Target size (minimum, 2.2)	**pass**	≥ 44 px on phones, ≥ 56 px in in-car mode; axe target-size: 0
3.3.2 Labels or instructions	**pass**	All form fields labelled
4.1.2 Name, role, value	**pass**	axe aria-*: 0; sheet toggle aria-label Inklappen/Uitklappen, switches role=switch
4.1.3 Status messages	**pass**	Result count / errors in role=status aria-live=polite
2.3.3 / prefers-reduced-motion	**pass**	Running animations with reduced motion: none

Colour-blind simulation of the map palette (Machado 2009; ΔE76 between colours with different meanings)

Vision	Confusable pairs (ΔE<15)	Closest pair
normal	0	52.8 (price:>20 ~ restriction:prohibited (dark hatch))
deutan	0	40.8 (price:>20 ~ restriction:prohibited (dark hatch))
protan	0	25.2 (price:>20 ~ restriction:prohibited (dark hatch))
tritan	0	51.8 (price:free ~ restriction:prohibited (dark hatch))

The price ramp also gets darker as prices rise in every simulation (lightness under deuteranopia: [92, 79, 56, 30]), so the order still reads without hue.

Map alternative

Everything on the map is in the list too: price, type (icon with text name), walking time and restrictions. The detail card has the full tariff table. With the map off or missing (no WebGL), the app works entirely from the list.

Screenshots



200 % text, 320 px (before)



200 % text, 320 px (after)