



UNIVERSAL UI RULEBOOK V1 — Audit & Matrice V3 (Web + iOS + Android)

Cadre, entrées, et sources P0/P1

Le PDF fourni ("Source Map.pdf") sert ici d'index/piste de lecture (informatif), tandis que le JSON collé dans la requête est traité comme la matrice initiale à auditer et à consolider en "source de vérité".
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1) Source map P0/P1 uniquement (JSON)

```
{
  "P0": [
    {
      "source_id": "apple_design_tips",
      "owner": "Apple Developer",
      "title": "UI Design Dos and Don'ts",
      "root_domain": "developer.apple.com",
      "url": "https://developer.apple.com/design/tips/",
      "coverage": ["ios_touch_targets", "ios_text_size_min"]
    },
    {
      "source_id": "apple_design_evangelism_qa",
      "owner": "Apple Developer News",
      "title": "Q&A: 10 Questions with Design Evangelism",
      "root_domain": "developer.apple.com",
      "url": "https://developer.apple.com/news/?id=s8sl4tpa",
      "coverage": ["ios_layout_margins", "ios_safe_area_vs_margins",
      "ios_tab_bar_labels", "ios_tab_bar_visibility"]
    },
    {
      "source_id": "apple_hig_tab_bars",
      "owner": "Apple Human Interface Guidelines",
      "title": "Tab bars",
      "root_domain": "developer.apple.com",
      "url": "https://developer.apple.com/design/human-interface-guidelines/
tab-bars",
      "coverage": ["ios_navigation_primary"]
    },
    {
      "source_id": "apple_hig_tab_views",
      "owner": "Apple Human Interface Guidelines",
      "title": "Tab views",
      "root_domain": "developer.apple.com",
      "url": "https://developer.apple.com/design/human-interface-guidelines/
```

```

    "tab-views",
    "coverage": ["ios_tab_count_guidance"]
},
{
  "source_id": "google_android_touch_target",
  "owner": "Google Accessibility (Android)",
  "title": "Touch target size",
  "root_domain": "support.google.com",
  "url": "https://support.google.com/accessibility/android/answer/7101858?hl=en",
  "coverage": ["android_touch_target_min",
  "android_touch_target_spacing"]
},
{
  "source_id": "android_compose_navigation_bar",
  "owner": "Android Developers (Jetpack Compose)",
  "title": "Navigation bar",
  "root_domain": "developer.android.com",
  "url": "https://developer.android.com/develop/ui/compose/components/navigation-bar?hl=pl",
  "coverage": ["android_bottom_nav_items_count"]
},
{
  "source_id": "w3c_wcag22_spec",
  "owner": "W3C",
  "title": "Web Content Accessibility Guidelines (WCAG) 2.2",
  "root_domain": "www.w3.org",
  "url": "https://www.w3.org/TR/WCAG22/",
  "coverage": ["wcag_normative_baseline"]
},
{
  "source_id": "w3c_wai_understanding",
  "owner": "W3C WAI",
  "title": "WCAG Understanding (2.2 / 2.1 pages as applicable)",
  "root_domain": "www.w3.org",
  "url": "https://www.w3.org/WAI/WCAG22/Understanding/",
  "coverage": ["wcag_interpretation_tests"]
},
{
  "source_id": "mdn_prefers_reduced_motion",
  "owner": "MDN Web Docs",
  "title": "prefers-reduced-motion",
  "root_domain": "developer.mozilla.org",
  "url": "https://developer.mozilla.org/en-US/docs/Web/CSS/Reference/At-rules/%40media/prefers-reduced-motion",
  "coverage": ["web_reduce_motion_preference"]
},
],
"P1": [
  {
    "source_id": "nngroup",

```

```

        "owner": "Nielsen Norman Group",
        "root_domain": "nnngroup.com",
        "coverage": ["ux_heuristics_when_no_p0"]
    },
    {
        "source_id": "baynard",
        "owner": "Baynard Institute",
        "root_domain": "baynard.com",
        "coverage": ["ecommerce_forms_patterns_when_no_p0"]
    }
]
}

```

Sources P0 confirmées et utilisées pour l'audit et la consolidation : Apple "UI Design Dos and Don'ts" (44x44 pt, 11 pt). Les marges (16 pt compact / 20 pt regular) sont explicitement citées dans le Q&A Design Evangelism. Android "Touch target size" expérimente 48x48 dp et l'espacement recommandé ≥8 dp. WCAG 2.2 et ses documents Understanding sont la base pour les exigences Web (cibles 24x24 CSS px, contrastes, focus, clavier, formulaires, etc.). MDN documente l'intention et l'usage de `prefers-reduced-motion`.

(Note : les noms d'organisations sont référencés une seule fois ici : , , , , .)

2) Audit table (JSON)

```

[
{
    "rule_id": "ios_touch_min_size",
    "status": "VERIFIED",
    "reason":
"Source P0 explicite: 'Create controls that measure at least 44 points x 44 points'.",
    "best_source_title": "UI Design Dos and Don'ts (Apple Developer)",
    "best_source_url": "https://developer.apple.com/design/tips/",
    "rewrite": null
},
{
    "rule_id": "ios_text_min",
    "status": "VERIFIED",
    "reason": "Source P0 explicite: 'Text should be at least 11 points'.",
    "best_source_title": "UI Design Dos and Don'ts (Apple Developer)",
    "best_source_url": "https://developer.apple.com/design/tips/",
    "rewrite": null
},
{
    "rule_id": "ios_layout_margin_compact",
    "status": "NEEDS_REWRITE",
    "reason":
"La source parle de 'compact width size class' (pas 'iPhone' au sens strict) et distingue safe areas vs margins (safe areas dynamiques).",
    "best_source_title": "Q&A: 10 Questions with Design Evangelism (Apple Developer News)",
    "best_source_url": "https://developer.apple.com/q-a/design-evangelism"
}
]
```

```

    "best_source_url": "https://developer.apple.com/news/?id=s8sl4tpa",
    "rewrite": {
        "statement": "En width size class compact, utiliser des layout margins système de 16 pt; traiter les safe areas comme distinctes et dynamiques (orientation, barres système, etc.).",
        "value": 16,
        "unit": "pt"
    },
    {
        "rule_id": "ios_layout_margin_regular",
        "status": "NEEDS_REWRITE",
        "reason": "Même point que ci-dessus: la règle doit être formulée par size class (regular) et non uniquement 'iPad'.",
        "best_source_title": "Q&A: 10 Questions with Design Evangelism (Apple Developer News)",
        "best_source_url": "https://developer.apple.com/news/?id=s8sl4tpa",
        "rewrite": {
            "statement": "En width size class regular, utiliser des layout margins système de 20 pt; safe areas distinctes et dynamiques.",
            "value": 20,
            "unit": "pt"
        },
        {
            "rule_id": "android_touch_min_size",
            "status": "VERIFIED",
            "reason": "Source P0 explicite: largeur/hauteur d'au moins 48dp.",
            "best_source_title": "Android Accessibility Help - Touch target size",
            "best_source_url": "https://support.google.com/accessibility/android/answer/7101858?hl=en",
            "rewrite": null
        },
        {
            "rule_id": "android_touch_spacing",
            "status": "VERIFIED",
            "reason": "Source P0 explicite: cibles séparées par 8dp ou plus.",
            "best_source_title": "Android Accessibility Help - Touch target size",
            "best_source_url": "https://support.google.com/accessibility/android/answer/7101858?hl=en",
            "rewrite": null
        },
        {
            "rule_id": "web_touch_min_size",
            "status": "NEEDS_REWRITE",
            "reason": "WCAG 2.5.8 impose 24x24 CSS px mais avec exceptions (spacing/ equivalent/inline/user agent/essential). La règle doit capturer ces exceptions testables.",
            "best_source_title": "WCAG 2.2 - Target Size (Minimum)",
            "best_source_url": "https://www.w3.org/TR/WCAG22/#target-size-minimum",
        }
    }
}

```

```

    "rewrite": {
        "statement": "Respecter WCAG 2.5.8: cible ≥ 24×24 CSS px, sauf exceptions (Spacing, Equivalent, Inline, User agent control, Essential) définies par la norme.",
        "value": 24,
        "unit": "px"
    },
},
{
    "rule_id": "contrast_text_normal",
    "status": "VERIFIED",
    "reason": "WCAG 1.4.3 (AA): contraste ≥ 4.5:1 pour le texte normal (hors exceptions).",
    "best_source_title": "WCAG 2.2 - Contrast (Minimum)",
    "best_source_url": "https://www.w3.org/TR/WCAG22/#contrast-minimum",
    "rewrite": null
},
{
    "rule_id": "contrast_text_large",
    "status": "VERIFIED",
    "reason": "WCAG 1.4.3 (AA): contraste ≥ 3:1 pour le 'large text' (défini par WCAG).",
    "best_source_title": "WCAG 2.2 - Contrast (Minimum)",
    "best_source_url": "https://www.w3.org/TR/WCAG22/#contrast-minimum",
    "rewrite": null
},
{
    "rule_id": "contrast_ui_components",
    "status": "VERIFIED",
    "reason": "WCAG 1.4.11 (AA): contraste non-texte ≥ 3:1 pour composants UI/objets graphiques pertinents.",
    "best_source_title": "WCAG 2.2 - Non-text Contrast",
    "best_source_url": "https://www.w3.org/TR/WCAG22/#non-text-contrast",
    "rewrite": null
},
{
    "rule_id": "color_alone_no",
    "status": "VERIFIED",
    "reason": "WCAG 1.4.1: la couleur ne doit pas être le seul moyen de transmettre une information/une action.",
    "best_source_title": "Understanding SC 1.4.1: Use of Color (WAI)",
    "best_source_url": "https://www.w3.org/WAI/WCAG21/Understanding/use-of-color.html",
    "rewrite": null
},
{
    "rule_id": "focus_visible",
    "status": "VERIFIED",
    "reason": "WCAG 2.4.7: un mode d'opération doit afficher un indicateur visible de focus clavier.",
    "best_source_title": "Understanding SC 2.4.7: Focus Visible (WAI)",

```

```

        "best_source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-
visible.html",
        "rewrite": null
    },
    {
        "rule_id": "focus_not_obsured",
        "status": "VERIFIED",
        "reason": "WCAG 2.4.11 (Minimum): l'élément au focus ne doit pas être
entièrement masqué.",
        "best_source_title": "Understanding SC 2.4.11: Focus Not Obscured
(Minimum) (WAI)",
        "best_source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-
not-obsured-minimum.html",
        "rewrite": null
    },
    {
        "rule_id": "focus_outline_thickness",
        "status": "NEEDS_REWRITE",
        "reason": "WCAG 2.4.13 impose une surface minimale (équivalente à un
périmètre de 2 CSS px). 'Épaisseur  $\geq$  2 px' est une implémentation typique,
mais la règle doit refléter la contrainte 'aire minimale'.",
        "best_source_title": "Understanding SC 2.4.13: Focus Appearance (WAI)",
        "best_source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-
appearance.html",
        "rewrite": {
            "statement": "
Respecter WCAG 2.4.13 (Focus Appearance): l'indicateur de focus doit avoir
une aire au moins équivalente à un périmètre de 2 CSS px autour du composant
(un outline solide de 2px est l'option la plus simple).",
            "value": 2,
            "unit": "px"
        }
    },
    {
        "rule_id": "focus_outline_contrast",
        "status": "NEEDS_REWRITE",
        "reason": "WCAG 2.4.13 parle de contraste de l'indicateur de focus vis-à-
vis des couleurs adjacentes (et non seulement 'arrière-plan' au sens
simple).",
        "best_source_title": "Understanding SC 2.4.13: Focus Appearance (WAI)",
        "best_source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-
appearance.html",
        "rewrite": {
            "statement": "
Respecter WCAG 2.4.13: contraste de l'indicateur de focus  $\geq$  3:1 par rapport
aux couleurs adjacentes (et discernable de l'état non focus).",
            "value": 3,
            "unit": "ratio"
        }
    },
    {

```

```

    "rule_id": "keyboard_operable",
    "status": "VERIFIED",
    "reason": "WCAG 2.1.1: toute fonctionnalité opérable au clavier, sauf
entrée dépendante du tracé (path).",
    "best_source_title": "Understanding SC 2.1.1: Keyboard (WAI)",
    "best_source_url": "https://www.w3.org/WAI/WCAG22/Understanding/
keyboard",
    "rewrite": null
},
{
    "rule_id": "no_keyboard_trap",
    "status": "VERIFIED",
    "reason": "WCAG 2.1.2: ne pas piéger le focus; fournir une méthode de
sortie si non standard.",
    "best_source_title": "Understanding SC 2.1.2: No Keyboard Trap (WAI)",
    "best_source_url": "https://www.w3.org/WAI/WCAG22/Understanding/no-
keyboard-trap",
    "rewrite": null
},
{
    "rule_id": "pointer_gesture",
    "status": "VERIFIED",
    "reason": "WCAG 2.5.1: alternative mono-pointeur pour gestes
multipoints / basés sur tracé.",
    "best_source_title": "Understanding SC 2.5.1: Pointer Gestures (WAI)",
    "best_source_url": "https://www.w3.org/WAI/WCAG22/Understanding/pointer-
gestures.html",
    "rewrite": null
},
{
    "rule_id": "text_resize_200",
    "status": "VERIFIED",
    "reason": "WCAG 1.4.4: texte redimensionnable jusqu'à 200% sans perte.",
    "best_source_title": "Understanding SC 1.4.4: Resize Text (WAI)",
    "best_source_url": "https://www.w3.org/WAI/WCAG21/Understanding/resize-
text.html",
    "rewrite": null
},
{
    "rule_id": "text_spacing_override",
    "status": "VERIFIED",
    "reason": "WCAG 1.4.12: aucune perte si l'utilisateur force les valeurs
(line-height, paragraph, letter, word).",
    "best_source_title": "Understanding SC 1.4.12: Text Spacing (WAI)",
    "best_source_url": "https://www.w3.org/WAI/WCAG22/Understanding/text-
spacing.html",
    "rewrite": null
},
{
    "rule_id": "reduce_motion",
    "status": "VERIFIED",

```

```

    "reason": "MDN documente la détection et l'usage de prefers-reduced-motion pour minimiser les animations non essentielles.",
    "best_source_title": "MDN - prefers-reduced-motion",
    "best_source_url": "https://developer.mozilla.org/en-US/docs/Web/CSS/Reference/At-rules/%40media/prefers-reduced-motion",
    "rewrite": null
}
]

```

Justifications clés (extraits normatifs/éducatifs) : Apple spécifie 44×44 pt et 11 pt. Apple documente les layout margins 16 pt (compact) / 20 pt (regular) et précise que safe areas et margins sont distincts. Google spécifie 48×48 dp et recommande ≥ 8 dp entre cibles. WCAG 2.5.8 (24×24 CSS px + exceptions) et WCAG 2.4.13 (aire minimale de focus + contraste) imposent de reformuler certaines règles pour refléter les exceptions et la notion d'aire plutôt que "épaisseur uniquement".

Référentiel universel consolidé

3) Rule Matrix V3 Universal (JSON strict)

```

[
{
  "rule_id": "ios_touch_min_size",
  "platform": "ios",
  "category": "touch",
  "level": "must",
  "statement": "Chaque contrôle interactif doit mesurer au moins 44x44 pt.",
  "value": 44,
  "unit": "pt",
  "rationale": "Apple recommande 44x44 pt pour des cibles tactiles fiables.",
  "source_title": "UI Design Dos and Don'ts (Apple Developer) – Hit Targets",
  "source_url": "https://developer.apple.com/design/tips/",
  "source_quality": "P0",
  "last_verified_date": "2026-02-02",
  "test": "Mesurer la zone tappable (hit area), pas uniquement le visuel. Rejeter si <44 pt sur un axe."
},
{
  "rule_id": "ios_text_min_11pt",
  "platform": "ios",
  "category": "typography",
  "level": "must",
  "statement": "Le texte doit être  $\geq 11$  pt pour rester lisible sans zoom à distance de lecture typique.",
  "value": 11,
  "unit": "pt",
  "rationale": "Apple recommande  $\geq 11$  pt pour la lisibilité.",
  "source_title": "UI Design Dos and Don'ts (Apple Developer) – Text Size",
}
]
```

```
"source_url": "https://developer.apple.com/design/tips/",
"source_quality": "P0",
"last_verified_date": "2026-02-02",
"test": "Auditer les styles (tokens) et vérifier qu'aucun texte informatif n'est <11 pt."
},
{
"rule_id": "ios_layout_margins_compact_16pt",
"platform": "ios",
"category": "layout",
"level": "should",
"statement":
"En width size class compact, utiliser des layout margins de 16 pt (et distinguer margins vs safe areas).",
"value": 16,
"unit": "pt",
"rationale": "Apple indique 16 pt en compact, 20 pt en regular; safe areas dynamiques et distinctes.",
"source_title": "Q&A: 10 Questions with Design Evangelism (Apple Developer News)",
"source_url": "https://developer.apple.com/news/?id=s8sl4tpa",
"source_quality": "P0",
"last_verified_date": "2026-02-02",
"test": "Vérifier tokens de marges (leading/trailing) en compact; contrôler séparément les insets de safe area."
},
{
"rule_id": "ios_layout_margins_regular_20pt",
"platform": "ios",
"category": "layout",
"level": "should",
"statement":
"En width size class regular, utiliser des layout margins de 20 pt (safe areas distinctes et dynamiques).",
"value": 20,
"unit": "pt",
"rationale": "Apple indique 20 pt en regular; safe areas varient selon device/orientation/barres.",
"source_title": "Q&A: 10 Questions with Design Evangelism (Apple Developer News)",
"source_url": "https://developer.apple.com/news/?id=s8sl4tpa",
"source_quality": "P0",
"last_verified_date": "2026-02-02",
"test": "Vérifier tokens de marges en regular; tests portrait/paysage si applicable."
},
{
"rule_id": "ios_tab_bar_labels_recommended",
"platform": "ios",
"category": "navigation",
"level": "should",
```

```

    "statement": "Les onglets de tab bar devraient conserver des labels  

    (icône + texte) pour clarté et accessibilité, sauf exceptions rares.",  

    "value": null,  

    "unit": null,  

    "rationale": "Apple recommande souvent les labels; les retirer apporte  

    peu de bénéfice et réduit la clarté.",  

    "source_title": "Q&A: 10 Questions with Design Evangelism (Apple  

    Developer News) – tab bar labels",  

    "source_url": "https://developer.apple.com/news/?id=s8sl4tpa",  

    "source_quality": "P0",  

    "last_verified_date": "2026-02-02",  

    "test": "Audit UI: chaque onglet a un libellé textuel visible (sauf  

    justification documentée + test utilisateur)."  

},  

{  

    "rule_id": "ios_tab_bar_not_hidden_on_push",  

    "platform": "ios",  

    "category": "navigation",  

    "level": "should",  

    "statement":  

    "Éviter de masquer la tab bar lors de la navigation vers des sous-écrans  

    (sauf cas modaux brefs).",  

    "value": null,  

    "unit": null,  

    "rationale": "Apple indique que masquer une tab bar peut désorienter;  

    couverture temporaire en modal acceptable.",  

    "source_title": "Q&A: 10 Questions with Design Evangelism (Apple  

    Developer News) – tab bar visibility",  

    "source_url": "https://developer.apple.com/news/?id=s8sl4tpa",  

    "source_quality": "P0",  

    "last_verified_date": "2026-02-02",  

    "test": "Parcours navigation: vérifier que la tab bar reste visible sur  

    la hiérarchie standard."  

},  

{  

    "rule_id": "ios_tab_views_max_6_tabs",  

    "platform": "ios",  

    "category": "navigation",  

    "level": "should",  

    "statement":  

    "Éviter de fournir plus de 6 tabs dans une tab view; au-delà cela devient  

    surchargé et peut créer des problèmes de layout.",  

    "value": 6,  

    "unit": "count",  

    "rationale": "Apple recommande d'éviter >6 tabs dans une tab view.",  

    "source_title": "Tab views (Apple Human Interface Guidelines)",  

    "source_url": "https://developer.apple.com/design/human-interface-  

    guidelines/tab-views",  

    "source_quality": "P0",  

    "last_verified_date": "2026-02-02",  

    "test": "Compter les tabs: échec si >6 sans refonte IA/navigation."
}

```

```
        },
        {
            "rule_id": "android_touch_min_size",
            "platform": "android",
            "category": "touch",
            "level": "must",
            "statement": "Définir les cibles tactiles à au moins 48x48 dp.",
            "value": 48,
            "unit": "dp",
            "rationale": "Android recommande une taille minimale de 48dp pour les éléments interactifs.",
            "source_title": "Android Accessibility Help - Touch target size",
            "source_url": "https://support.google.com/accessibility/android/answer/7101858?hl=en",
            "source_quality": "P0",
            "last_verified_date": "2026-02-02",
            "test": "Mesurer la zone cliquable effective (padding inclus). Rejeter si <48dp sur un axe."
        },
        {
            "rule_id": "android_touch_spacing_8dp",
            "platform": "android",
            "category": "spacing",
            "level": "should",
            "statement": "Séparer des cibles tactiles adjacentes d'au moins 8 dp lorsque possible.",
            "value": 8,
            "unit": "dp",
            "rationale": "Le guide Android suggère ≥8dp entre cibles pour réduire les erreurs de tap.",
            "source_title": "Android Accessibility Help - Touch target size",
            "source_url": "https://support.google.com/accessibility/android/answer/7101858?hl=en",
            "source_quality": "P0",
            "last_verified_date": "2026-02-02",
            "test": "Mesurer l'espace entre hit areas adjacentes; investiguer collisions/overlaps."
        },
        {
            "rule_id": "android_navigation_bar_destinations_3_5",
            "platform": "android",
            "category": "navigation",
            "level": "should",
            "statement": "Utiliser une navigation bar en bas quand il y a 3-5 destinations principales d'importance équivalente.",
            "value": { "min": 3, "max": 5 },
            "unit": "count",
            "rationale": "Android Developers indique l'usage de la navigation bar pour 3-5 destinations principales."
        }
    ]
}
```

```

    "source_title": "Navigation bar (Jetpack Compose)",
    "source_url": "https://developer.android.com/develop/ui/compose/
components/navigation-bar?hl=pl",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Compter destinations top-level; si >5, justifier un autre
pattern (rail/drawer)."
},
{
    "rule_id": "web_touch_target_wcag_2_5_8",
    "platform": "web",
    "category": "touch",
    "level": "must",
    "statement": "Respecter WCAG 2.5.8: cibles ≥ 24×24 CSS px, sauf
exceptions normatives (Spacing, Equivalent, Inline, User agent control,
Essential).",
    "value": 24,
    "unit": "px",
    "rationale": "WCAG 2.5.8 définit une taille minimale avec exceptions
testables.",
    "source_title": "WCAG 2.2 - Target Size (Minimum)",
    "source_url": "https://www.w3.org/TR/WCAG22/#target-size-minimum",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Analyser bounding box de la target; gérer cas 'Inline' et
'Spacing' selon WCAG."
},
{
    "rule_id": "contrast_text_normal_4_5_1",
    "platform": "cross",
    "category": "color",
    "level": "must",
    "statement": "Assurer un contraste texte/arrière-plan ≥ 4.5:1 pour le
texte normal.",
    "value": 4.5,
    "unit": "ratio",
    "rationale": "WCAG 1.4.3 (AA) définit 4.5:1 pour le texte normal.",
    "source_title": "WCAG 2.2 - Contrast (Minimum)",
    "source_url": "https://www.w3.org/TR/WCAG22/#contrast-minimum",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Mesurer le contraste (luminance relative) pour chaque paire
foreground/background."
},
{
    "rule_id": "contrast_text_large_3_1",
    "platform": "cross",
    "category": "color",
    "level": "must",
    "statement": "Assurer un contraste ≥ 3:1 pour le texte de grande taille
(large-scale).",

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```

    "value": 3,
    "unit": "ratio",
    "rationale": "WCAG 1.4.3 (AA) définit 3:1 pour le large text.",
    "source_title": "WCAG 2.2 - Contrast (Minimum)",
    "source_url": "https://www.w3.org/TR/WCAG22/#contrast-minimum",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test":
      "Appliquer le seuil large text (voir règle dédiée) puis contrôler contraste."
  },
  {
    "rule_id": "wcag_large_text_definition",
    "platform": "cross",
    "category": "typography",
    "level": "must",
    "statement": "Interpréter 'large text' (WCAG) comme 18 pt, ou 14 pt en gras, pour l'application des seuils de contraste.",
    "value": { "pt": 18, "pt_bold": 14 },
    "unit": "pt",
    "rationale":
      "WAI 'Understanding Contrast (Minimum)' définit 18pt ou 14pt bold comme seuil de large text.",
      "source_title": "Understanding SC 1.4.3: Contrast (Minimum) (WAI)",
      "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/contrast-minimum.html",
      "source_quality": "P0",
      "last_verified_date": "2026-02-02",
      "test": "Classifier chaque style texte (weight/size) puis appliquer le bon ratio."
  },
  {
    "rule_id": "contrast_ui_components_3_1",
    "platform": "cross",
    "category": "color",
    "level": "must",
    "statement": "Assurer un contraste ≥ 3:1 entre les composants UI (et leurs états pertinents) et les couleurs adjacentes.",
    "value": 3,
    "unit": "ratio",
    "rationale": "WCAG 1.4.11 (AA) impose ≥3:1 pour composants UI et objets graphiques nécessaires.",
    "source_title": "Understanding SC 1.4.11: Non-text Contrast (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG21/Understanding/non-text-contrast.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Tester états: default-hover/active/disabled/focus; vérifier contrastes non-texte."
  },
  {
    "rule_id": "color_not_alone_wcag_1_4_1",

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    "platform": "cross",
    "category": "color",
    "level": "must",
    "statement": "Ne pas utiliser la couleur seule pour indiquer une info/action/état; fournir un repère supplémentaire (texte, icône, forme, motif).",
    "value": null,
    "unit": null,
    "rationale": "WCAG 1.4.1 interdit la couleur comme seul vecteur d'information.",
    "source_title": "Understanding SC 1.4.1: Use of Color (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG21/Understanding/use-of-color.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Simuler daltonisme/grayscale; vérifier que l'information reste accessible."
},
{
    "rule_id": "web_focus_visible_wcag_2_4_7",
    "platform": "web",
    "category": "a11y",
    "level": "must",
    "statement": "Assurer un indicateur de focus clavier visible sur tout élément focusable.",
    "value": null,
    "unit": null,
    "rationale": "WCAG 2.4.7 requiert un mode d'opération où l'indicateur de focus est visible.",
    "source_title": "Understanding SC 2.4.7: Focus Visible (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-visible.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Navigation Tab/Shift+Tab sur tout le produit; vérifier visibilité constante."
},
{
    "rule_id": "web_focus_not_obsured_min_wcag_2_4_11",
    "platform": "web",
    "category": "a11y",
    "level": "must",
    "statement": "L'élément au focus ne doit pas être entièrement masqué par du contenu (Focus Not Obscured – Minimum).",
    "value": null,
    "unit": null,
    "rationale": "WCAG 2.4.11 (AA) exige que le focus reste au moins partiellement visible.",
    "source_title": "Understanding SC 2.4.11: Focus Not Obscured (Minimum) (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-not-obsured-minimum.html",
}

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    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Tester overlays/sticky headers/cookie banners; vérifier
    visibilité focus en viewport."
},
{
    "rule_id": "web_focus_appearance_min_wcag_2_4_13",
    "platform": "web",
    "category": "a11y",
    "level": "must",
    "statement": "Respecter WCAG 2.4.13: indicateur de focus suffisamment
    visible (aire ≥ périmètre 2px ET contraste de l'indicateur ≥3:1 vs couleurs
    adjacentes).",
    "value": { "min_perimeter_equivalent_px": 2, "min_contrast_ratio": 3 },
    "unit": "px_and_ratio",
    "rationale":
        "WAI décrit l'aire minimale (équivalent périmètre 2px) et le contraste de
        l'indicateur (≥3:1).",
    "source_title": "Understanding SC 2.4.13: Focus Appearance (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-
    appearance.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Mesurer aire/épaisseur effective de l'indicateur + contraste;
    valider sur thèmes clair/sombre."
},
{
    "rule_id": "web_keyboard_operable_wcag_2_1_1",
    "platform": "web",
    "category": "a11y",
    "level": "must",
    "statement": "Toute fonctionnalité doit être utilisable au clavier (sauf
    actions dont la fonction dépend du tracé).",
    "value": null,
    "unit": null,
    "rationale": "WCAG 2.1.1 impose l'opérabilité clavier avec exception
    path-dependent.",
    "source_title": "Understanding SC 2.1.1: Keyboard (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/keyboard",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Parcours complet sans souris; vérifier actions (ouvrir/fermer,
    soumettre, sélectionner, etc.)."
},
{
    "rule_id": "web_no_keyboard_trap_wcag_2_1_2",
    "platform": "web",
    "category": "a11y",
    "level": "must",
    "statement": "Ne pas piéger le focus clavier; l'utilisateur doit pouvoir
    sortir d'un composant au clavier."
}

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    "value": null,
    "unit": null,
    "rationale": "WCAG 2.1.2 interdit les pièges au clavier.",
    "source_title": "Understanding SC 2.1.2: No Keyboard Trap (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/no-keyboard-
trap",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Tester modales, menus, carrousels, éditeurs riches; vérifier
sortie (Tab/Shift+Tab/Esc)."
},
{
    "rule_id": "pointer_gestures_single_pointer_wcag_2_5_1",
    "platform": "cross",
    "category": "input",
    "level": "must",
    "statement": "Fournir une alternative mono-pointeur à toute action
reposant sur un geste multipoints ou basé sur un tracé.",
    "value": null,
    "unit": null,
    "rationale": "WCAG 2.5.1 exige une alternative sans geste multipoints/
path-based.",
    "source_title": "Understanding SC 2.5.1: Pointer Gestures (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/pointer-
gestures.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Lister gestes (pinch/rotate/swipe path). Vérifier alternatives
(boutons, sliders, menus)."
},
{
    "rule_id": "dragging_movements_alt_wcag_2_5_7",
    "platform": "cross",
    "category": "input",
    "level": "must",
    "statement": "Toute fonctionnalité utilisant le drag doit avoir une
alternative mono-pointeur sans drag (sauf essential/user agent.).",
    "value": null,
    "unit": null,
    "rationale": "WCAG 2.5.7 (AA) impose une alternative au drag.",
    "source_title": "Understanding SC 2.5.7: Dragging Movements (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/dragging-
movements.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Pour chaque drag: proposer tap-to-move, boutons up/down, champs
numériques, menus."
},
{
    "rule_id": "pointer_cancellation_wcag_2_5_2",
    "platform": "web",

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    "category": "input",
    "level": "must",
    "statement":
      "Réduire les activations accidentelles: respecter WCAG 2.5.2 (pas d'action irréversible sur down-event; abort/undo/up-event, sauf essential).",
      "value": null,
      "unit": null,
      "rationale": "WCAG 2.5.2 définit des conditions pour annulation/undo des actions au pointeur.",
      "source_title": "Understanding SC 2.5.2: Pointer Cancellation (WAI)",
      "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/pointer-cancellation",
      "source_quality": "P0",
      "last_verified_date": "2026-02-02",
      "test": "Tester press/touch: aucune action destructrice déclenchée au down; vérifier undo/cancel."
    },
    {
      "rule_id": "motion_actuation_alt_wcag_2_5_4",
      "platform": "cross",
      "category": "input",
      "level": "must",
      "statement": "Si une action est déclenchée par mouvement (shake/tilt/gestes caméra), fournir une alternative via UI et permettre de désactiver la détection.",
      "value": null,
      "unit": null,
      "rationale": "WCAG 2.5.4 impose alternative UI + possibilité de désactiver l'actuation par mouvement.",
      "source_title": "Understanding SC 2.5.4: Motion Actuation (WAI)",
      "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/motion-actuation",
      "source_quality": "P0",
      "last_verified_date": "2026-02-02",
      "test": "Vérifier que chaque motion-trigger a un bouton/menu; vérifier toggle de désactivation."
    },
    {
      "rule_id": "text_resize_200_wcag_1_4_4",
      "platform": "cross",
      "category": "a11y",
      "level": "must",
      "statement": "Permettre de redimensionner le texte jusqu'à 200% sans perte de contenu ni de fonctionnalité.",
      "value": 200,
      "unit": "percent",
      "rationale": "WCAG 1.4.4 exige un redimensionnement à 200% sans perte (hors captions/images de texte).",
      "source_title": "Understanding SC 1.4.4: Resize Text (WAI)",
      "source_url": "https://www.w3.org/WAI/WCAG21/Understanding/resize-text.html",
    }
  ]
}

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    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Zoom navigateur à 200% + vérification absence de chevauchement/coupage/feature loss."
},
{
    "rule_id": "text_spacing_override_wcag_1_4_12",
    "platform": "web",
    "category": "a11y",
    "level": "must",
    "statement": "Aucune perte si l'utilisateur force: line-height ≥1.5×, paragraph spacing ≥2×, letter spacing ≥0.12×, word spacing ≥0.16×.",
    "value": { "line_height": 1.5, "paragraph_spacing": 2, "letter_spacing": 0.12, "word_spacing": 0.16 },
    "unit": "multiplier_of_font_size",
    "rationale": "WCAG 1.4.12 spécifie ces valeurs d'override et exige absence de perte.",
    "source_title": "Understanding SC 1.4.12: Text Spacing (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/text-spacing.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Appliquer stylesheet override; vérifier que rien n'est tronqué/overlap; gérer ellipses."
},
{
    "rule_id": "reflow_wcag_1_4_10",
    "platform": "web",
    "category": "layout",
    "level": "must",
    "statement":
"Assurer le reflow sans scroll 2D à 320 CSS px (vertical) et 256 CSS px (horizontal), hors exceptions.",
    "value": { "vertical_scroll_width_css_px": 320, "horizontal_scroll_height_css_px": 256 },
    "unit": "css_px",
    "rationale": "WCAG 1.4.10 définit ces seuils et exceptions.",
    "source_title": "Understanding SC 1.4.10: Reflow (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/reflow",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Tester viewport 320px + zoom 400% (équivalence mentionnée par WCAG); vérifier absence de scroll 2D."
},
{
    "rule_id": "orientation_not_restricted_wcag_1_3_4",
    "platform": "cross",
    "category": "layout",
    "level": "must",
    "statement": "Ne pas restreindre l'UI à une seule orientation (portrait/paysage), sauf si essential."
}

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        "value": null,
        "unit": null,
        "rationale": "WCAG 1.3.4 (AA) interdit de verrouiller l'orientation sauf essential.",
        "source_title": "Understanding SC 1.3.4: Orientation (WAI)",
        "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/orientation.html",
        "source_quality": "P0",
        "last_verified_date": "2026-02-02",
        "test": "Tester portrait/paysage; accepter restriction uniquement avec justification essential documentée."
    },
    {
        "rule_id": "pause_stop_hide_wcag_2_2_2",
        "platform": "web",
        "category": "motion",
        "level": "must",
        "statement": "Si un contenu bouge/clignote/défile >5s ou s'auto-met à jour, fournir pause/stop/hide (sauf essential) ou contrôle de fréquence.",
        "value": { "moving_content_threshold_seconds": 5 },
        "unit": "seconds",
        "rationale": "WCAG 2.2.2 (A) définit ce cadre (mouvement >5s; auto-update).",
        "source_title": "Understanding SC 2.2.2: Pause, Stop, Hide (WAI)",
        "source_url": "https://www.w3.org/WAI/WCAG21/Understanding/pause-stop-hide.html",
        "source_quality": "P0",
        "last_verified_date": "2026-02-02",
        "test": "Inventorier mouvements/auto-updates; vérifier contrôle utilisateur (pause/stop/hide/frequency)."
    },
    {
        "rule_id": "three_flashes_wcag_2_3_1",
        "platform": "web",
        "category": "motion",
        "level": "must",
        "statement": "Ne pas contenir d'élément flashant >3 fois par seconde (ou rester sous les seuils de flash).",
        "value": 3,
        "unit": "flashes_per_second",
        "rationale": "WCAG 2.3.1 (A) fixe la limite 3 flashes/sec ou seuils de flash.",
        "source_title": "Understanding SC 2.3.1: Three Flashes or Below Threshold (WAI)",
        "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/three-flashes-or-below-threshold.html",
        "source_quality": "P0",
        "last_verified_date": "2026-02-02",
        "test": "Analyser animations/vidéos; confirmer ≤3 flashes/sec ou conformité seuils."
    },

```

```

{
  "rule_id": "prefers_reduced_motion_respected",
  "platform": "web",
  "category": "motion",
  "level": "should",
  "statement": "Respecter `prefers-reduced-motion`: réduire/remplacer les animations non essentielles quand l'utilisateur préfère 'reduce'.",
  "value": null,
  "unit": null,
  "rationale": "MDN décrit cette media query comme signal de minimisation des mouvements non essentiels.",
  "source_title": "MDN - prefers-reduced-motion",
  "source_url": "https://developer.mozilla.org/en-US/docs/Web/CSS/Reference/At-rules/%40media/prefers-reduced-motion",
  "source_quality": "P0",
  "last_verified_date": "2026-02-02",
  "test": "Activer 'reduce motion' OS/browser; vérifier suppression/réduction transitions, parallax, etc."
},
{
  "rule_id": "on_focus_no_context_change_wcag_3_2_1",
  "platform": "web",
  "category": "navigation",
  "level": "must",
  "statement": "Ne pas déclencher de changement de contexte lorsqu'un composant reçoit le focus.",
  "value": null,
  "unit": null,
  "rationale":
"WCAG 3.2.1 l'interdit (pas de navigation/submit automatique sur focus).",
  "source_title": "Understanding SC 3.2.1: On Focus (WAI)",
  "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/on-focus",
  "source_quality": "P0",
  "last_verified_date": "2026-02-02",
  "test": "Tabbing ne doit pas auto-naviguer; pas d'ouverture de fenêtre/submit sur focus."
},
{
  "rule_id": "on_input_warn_context_change_wcag_3_2_2",
  "platform": "web",
  "category": "navigation",
  "level": "must",
  "statement": "Ne pas déclencher de changement de contexte sur un changement de valeur sans prévenir l'utilisateur avant usage.",
  "value": null,
  "unit": null,
  "rationale": "WCAG 3.2.2 exige prévisibilité des effets lors d'un input.",
  "source_title": "Understanding SC 3.2.2: On Input (WAI)",
  "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/on-input.html",
}

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```

    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Tester select/radio/checkbox: pas d'auto-submit / redirect sans
annonce préalable."
},
{
    "rule_id": "consistent_navigation_wcag_3_2_3",
    "platform": "web",
    "category": "navigation",
    "level": "must",
    "statement": "Les mécanismes de navigation répétés doivent conserver le
même ordre relatif sur les pages (sauf changement initié par
l'utilisateur).",
    "value": null,
    "unit": null,
    "rationale": "WCAG 3.2.3 (AA) impose l'ordre relatif cohérent.",
    "source_title": "Understanding SC 3.2.3: Consistent Navigation (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/consistent-
navigation.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Comparer header/nav/footer sur pages clés; vérifier ordre
relatif constant."
},
{
    "rule_id": "consistent_identification_wcag_3_2_4",
    "platform": "web",
    "category": "navigation",
    "level": "must",
    "statement": "Des composants à fonctionnalité identique dans un ensemble
de pages doivent être identifiés de manière cohérente.",
    "value": null,
    "unit": null,
    "rationale": "WCAG 3.2.4 (AA) impose identification cohérente des
fonctions répétées.",
    "source_title": "Understanding SC 3.2.4: Consistent Identification
(WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/consistent-
identification",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Audit des libellés/accessible names: mêmes fonctions => mêmes
labels/noms."
},
{
    "rule_id": "page_titled_wcag_2_4_2",
    "platform": "web",
    "category": "navigation",
    "level": "must",
    "statement": "Chaque page/vue doit avoir un titre descriptif (topic/
purpose).",

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```

    "value": null,
    "unit": null,
    "rationale": "WCAG 2.4.2 exige des titres descriptifs.",
    "source_title": "Understanding SC 2.4.2: Page Titled (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/page-titled.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Vérifier <title> / titre de vue SPA; titres uniques et descriptifs."
},
{
    "rule_id": "bypass_blocks_wcag_2_4_1",
    "platform": "web",
    "category": "navigation",
    "level": "must",
    "statement": "Fournir un mécanisme pour bypass des blocs répétés (ex. 'skip to content').",
    "value": null,
    "unit": null,
    "rationale": "WCAG 2.4.1 exige un mécanisme de contournement des blocs répétés.",
    "source_title": "Understanding SC 2.4.1: Bypass Blocks (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG21/Understanding/bypass-blocks.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Clavier: premier focus propose 'skip'; landmarks ARIA et structure évaluées."
},
{
    "rule_id": "focus_order_wcag_2_4_3",
    "platform": "web",
    "category": "navigation",
    "level": "must",
    "statement": "Le focus doit progresser dans un ordre qui préserve le sens et l'opérabilité.",
    "value": null,
    "unit": null,
    "rationale": "WCAG 2.4.3 impose un ordre de focus cohérent avec le sens/usage.",
    "source_title": "Understanding SC 2.4.3: Focus Order (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-order.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Tab-order: pas de sauts illogiques; cohérence entre lecture et navigation."
},
{

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```

    "rule_id": "link_purpose_in_context_wcag_2_4_4",
    "platform": "web",
    "category": "navigation",
    "level": "must",
    "statement": "Le but de chaque lien doit être déterminable depuis le texte du lien (ou son contexte programmatique).",
    "value": null,
    "unit": null,
    "rationale": "WCAG 2.4.4 exige un link purpose déterminable.",
    "source_title": "Understanding SC 2.4.4: Link Purpose (In Context) (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/link-purpose-in-context.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Lister liens (y compris icônes) et vérifier lisibilité du but hors contexte visuel."
},
{
    "rule_id": "headings_labels_descriptive_wcag_2_4_6",
    "platform": "web",
    "category": "navigation",
    "level": "must",
    "statement": "Les headings et labels doivent décrire le topic ou le purpose.",
    "value": null,
    "unit": null,
    "rationale": "WCAG 2.4.6 (AA) exige headings/labels descriptifs.",
    "source_title": "Understanding SC 2.4.6: Headings and Labels (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/headings-and-labels.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Audit microcopy: headings uniques, labels précis; éviter ambiguïtés ('cliquez ici')."
},
{
    "rule_id": "labels_or_instructions_wcag_3_3_2",
    "platform": "cross",
    "category": "forms",
    "level": "must",
    "statement": "Fournir labels ou instructions pour toute saisie utilisateur (y compris formats attendus).",
    "value": null,
    "unit": null,
    "rationale": "WCAG 3.3.2 impose labels/instructions dès qu'il y a input utilisateur.",
    "source_title": "Understanding SC 3.3.2: Labels or Instructions (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/labels-or-instructions.html",
    "source_quality": "P0",
}

```

```

    "last_verified_date": "2026-02-02",
    "test": "Vérifier chaque champ: label visible + format si nécessaire;
options radio/checkbox labelisées."
},
{
    "rule_id": "error_identification_wcag_3_3_1",
    "platform": "cross",
    "category": "forms",
    "level": "must",
    "statement": "Si une erreur est détectée, identifier le champ en erreur et décrire l'erreur en texte.",
    "value": null,
    "unit": null,
    "rationale":
        "WCAG 3.3.1 exige identification + description textuelle des erreurs.",
        "source_title": "Understanding SC 3.3.1: Error Identification (WAI)",
        "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/error-identification.html",
        "source_quality": "P0",
        "last_verified_date": "2026-02-02",
        "test": "Provoquer erreurs: champ + message clair; pas d'erreur uniquement par couleur."
},
{
    "rule_id": "error_suggestion_wcag_3_3_3",
    "platform": "cross",
    "category": "forms",
    "level": "must",
    "statement": "Si des suggestions de correction sont connues, les fournir (sauf risque sécurité/objectif).",
    "value": null,
    "unit": null,
    "rationale": "WCAG 3.3.3 (AA) impose de proposer une correction quand possible.",
    "source_title": "Understanding SC 3.3.3: Error Suggestion (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG21/Understanding/error-suggestion.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test":
        "Tester email/téléphone/format: message donne un exemple ou règle de correction."
},
{
    "rule_id": "error_prevention_legal_financial_data_wcag_3_3_4",
    "platform": "cross",
    "category": "forms",
    "level": "must",
    "statement": "Pour engagements légaux/transactions/données, fournir au moins: reversible OU checked+opportunité de correction OU confirmation/review avant finalisation."
}

```

```

        "value": null,
        "unit": null,
        "rationale": "WCAG 3.3.4 (AA) définit les garde-fous minimaux pour
actions à conséquences.",
        "source_title": "Understanding SC 3.3.4: Error Prevention (Legal,
Financial, Data) (WAI)",
        "source_url": "https://www.w3.org/WAI/WCAG21/Understanding/error-
prevention-legal-financial-data.html",
        "source_quality": "P0",
        "last_verified_date": "2026-02-02",
        "test": "Sur paiements/suppression/modifs: vérifier undo/review/
correction avant commit."
    },
    {
        "rule_id": "identify_input_purpose_wcag_1_3_5",
        "platform": "web",
        "category": "forms",
        "level": "must",
        "statement":
        "Identifier programmatiquement la finalité des champs usuels (ex. via
autocomplete) quand la technologie le supporte.",
        "value": null,
        "unit": null,
        "rationale": "WCAG 1.3.5 (AA) impose l'identification du purpose de
champs d'info utilisateur.",
        "source_title": "Understanding SC 1.3.5: Identify Input Purpose (WAI)",
        "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/identify-
input-purpose.html",
        "source_quality": "P0",
        "last_verified_date": "2026-02-02",
        "test":
        "Audit HTML: autocomplete tokens sur name/email/tel/address, etc. selon
taxonomie."
    },
    {
        "rule_id": "accessible_authentication_min_wcag_3_3_8",
        "platform": "web",
        "category": "forms",
        "level": "must",
        "statement": "Ne pas exiger un test cognitif pour s'authentifier sans
alternative/mécanisme d'assistance (Accessible Authentication – Minimum).",
        "value": null,
        "unit": null,
        "rationale": "WCAG 3.3.8 (AA) encadre l'authentification accessible.",
        "source_title": "Understanding SC 3.3.8: Accessible Authentication
(Minimum) (WAI)",
        "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/accessible-
authentication-minimum.html",
        "source_quality": "P0",
        "last_verified_date": "2026-02-02",
        "test": "Tester login: pas de puzzle/mémoire/transcription obligatoire"
    }

```

```

        sans alternative ou aide."
    },
    {
        "rule_id": "status_messages_wcag_4_1_3",
        "platform": "web",
        "category": "a11y",
        "level": "must",
        "statement": "Les status messages doivent être détectables  
programmatiquement (role/properties) pour être annoncés sans prise de  
focus.",
        "value": null,
        "unit": null,
        "rationale": "WCAG 4.1.3 (AA) impose l'annonce des status messages via  
AT.",
        "source_title": "Understanding SC 4.1.3: Status Messages (WAI)",
        "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/status-  
messages",
        "source_quality": "P0",
        "last_verified_date": "2026-02-02",
        "test": "Tester toasts/alerts: screen reader annonce; pas de focus forcé  
sauf nécessaire."
    },
    {
        "rule_id": "name_role_value_wcag_4_1_2",
        "platform": "web",
        "category": "a11y",
        "level": "must",
        "statement": "Pour chaque composant UI: name/role/state/value doivent  
être déterminables programmatiquement; changements notifiés aux AT.",
        "value": null,
        "unit": null,
        "rationale": "WCAG 4.1.2 garantit l'interopérabilité AT des composants  
standard et custom.",
        "source_title": "Understanding SC 4.1.2: Name, Role, Value (WAI)",
        "source_url": "https://www.w3.org/WAI/WCAG21/Understanding/name-role-  
value.html",
        "source_quality": "P0",
        "last_verified_date": "2026-02-02",
        "test": "Audit ARIA/semantics: composants custom exposent role/name/  
state; tests NVDA/VO/JAWS."
    },
    {
        "rule_id": "label_in_name_wcag_2_5_3",
        "platform": "web",
        "category": "a11y",
        "level": "must",
        "statement": "Quand un contrôle a un label visible (texte), l'accessible  
name doit contenir ce texte.",
        "value": null,
        "unit": null,
        "rationale": "WCAG 2.5.3 facilite la commande vocale et la cohérence

```

```

    "label/nom.",
    "source_title": "Understanding SC 2.5.3: Label in Name (WAI)",
    "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/label-in-
name.html",
    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Comparer label visible vs accessible name; éviter aria-label
divergent si label existe."
},
{
  "rule_id": "character_key_shortcuts_wcag_2_1_4",
  "platform": "web",
  "category": "input",
  "level": "must",
  "statement": "Si des raccourcis clavier à 'caractère seul' existent,
permettre de les désactiver/remapper ou les activer uniquement au focus.",
  "value": null,
  "unit": null,
  "rationale": "WCAG 2.1.4 réduit activations accidentnelles (notamment
dictée vocale).",
  "source_title": "Understanding SC 2.1.4: Character Key Shortcuts (WAI)",
  "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/character-key-
shortcuts",
  "source_quality": "P0",
  "last_verified_date": "2026-02-02",
  "test": "Lister single-char shortcuts; vérifier toggle/remap ou scope
'active only on focus'."
}
]

```

Cette matrice V3 conserve les mesures chiffrées uniquement lorsqu'elles sont explicitement portées par une source P0 (ex. 44×44 pt, 48×48 dp, ≥24×24 CSS px, ratios de contraste, seuils WCAG reflow/text spacing).

Exigences prioritaires, règles SHOULD, deltas, et defaults

4) Hard Rules MUST (max 25)

```

[
  { "rule_id": "ios_touch_min_size", "summary": "iOS: cibles tactiles ≥44×44
pt." },
  { "rule_id": "android_touch_min_size", "summary":
"Android: cibles tactiles ≥48×48 dp." },
  { "rule_id": "web_touch_target_wcag_2_5_8", "summary": "Web: cibles ≥24×24
CSS px (WCAG 2.5.8) + exceptions normatives." },
  { "rule_id": "contrast_text_normal_4_5_1", "summary": "Contraste texte
normal ≥4.5:1." },
  { "rule_id": "contrast_text_large_3_1", "summary": "Contraste large text
≥3:1." },
  { "rule_id": "wcag_large_text_definition", "summary": "Définition large

```

```

    text: 18pt ou 14pt bold." },
    { "rule_id": "contrast_ui_components_3_1", "summary": "Contraste UI non-
texte ≥3:1." },
    { "rule_id": "color_not_alone_wcag_1_4_1", "summary": "Jamais la couleur
seule comme indicateur." },
    { "rule_id": "web_keyboard_operable_wcag_2_1_1", "summary": "Tout au
clavier, sauf fonctions dépendantes du tracé." },
    { "rule_id": "web_no_keyboard_trap_wcag_2_1_2", "summary": "Pas de piège
clavier." },
    { "rule_id": "web_focus_visible_wcag_2_4_7", "summary": "Focus visible sur
éléments interactifs." },
    { "rule_id": "web_focus_not_obscured_min_wcag_2_4_11", "summary": "Focus
jamais entièrement masqué." },
    { "rule_id": "web_focus_appearance_min_wcag_2_4_13", "summary": "Focus
suffisamment visible (aire équivalente 2px + contraste ≥3:1)." },
    { "rule_id": "pointer_gestures_single_pointer_wcag_2_5_1", "summary":
"Alternative mono-pointeur aux gestes multipoints/path-based." },
    { "rule_id": "dragging_movements_alt_wcag_2_5_7", "summary": "Alternative
au drag (sans drag) sauf essential." },
    { "rule_id": "pointer_cancellation_wcag_2_5_2", "summary": "Pas
d'irréversible au down-event; abort/undo/up-event." },
    { "rule_id": "motion_actuation_alt_wcag_2_5_4", "summary": "Si motion
actuation: alternative UI + désactivation possible." },
    { "rule_id": "text_resize_200_wcag_1_4_4", "summary": "Texte
redimensionnable à 200% sans perte." },
    { "rule_id": "text_spacing_override_wcag_1_4_12", "summary": "Pas de perte
avec override spacing (1.5/2/0.12/0.16)." },
    { "rule_id": "reflow_wcag_1_4_10", "summary": "Reflow sans scroll 2D à 320
CSS px (vertical) / 256 CSS px (horizontal)." },
    { "rule_id": "orientation_not_restricted_wcag_1_3_4", "summary": "Pas de
lock portrait/paysage sauf essential." },
    { "rule_id": "error_identification_wcag_3_3_1", "summary": "Erreurs: champ
+ description en texte." },
    { "rule_id": "labels_or_instructions_wcag_3_3_2", "summary": "Chaque input
a label/instructions." },
    { "rule_id": "name_role_value_wcag_4_1_2", "summary": "Composants: name/
role/state/value exposés (AT compatible)." },
    { "rule_id": "status_messages_wcag_4_1_3", "summary": "Status messages
annoncés sans prise de focus." }
]

```

Ces "Hard Rules" s'appuient sur Apple (44x44, 11 pt), Google (48dp, 8dp), et WCAG 2.2 (touch targets, contrastes, focus, clavier, formulaires, reflow, etc.).

5) Should rules

```

[
    { "rule_id": "ios_layout_margins_compact_16pt", "summary":
"iOS: margins 16 pt (compact width size class) + safe area distincte." },
    { "rule_id": "ios_layout_margins_regular_20pt", "summary": "

```

```

    "iOS: margins 20 pt (regular width size class) + safe area distincte." },
    { "rule_id": "android_touch_spacing_8dp", "summary": "Android: viser ≥8 dp
entre cibles (quand possible)." },
    { "rule_id": "android_navigation_bar_destinations_3_5", "summary":
"Android: navigation bar adaptée aux 3-5 destinations top-level." },
    { "rule_id": "ios_tab_bar_labels_recommended", "summary": "iOS: labels
d'onglets recommandés (clarté/a11y)." },
    { "rule_id": "ios_tab_bar_not_hidden_on_push", "summary": "iOS: éviter de
cacher la tab bar sur sous-écrans (sauf modal bref)." },
    { "rule_id": "ios_tab_views_max_6_tabs", "summary": "iOS: éviter >6 tabs
dans une tab view." },
    { "rule_id": "prefers_reduced_motion_respected", "summary":
"Web: respecter prefers-reduced-motion (réduire/remplacer animations non
essentielles)." }
]

```

Les points "layout margins 16/20" et recommandations de tab labels/visibilité viennent d'Apple Developer News. Le maximum "6 tabs" est documenté par Apple HIG Tab views. Les "3-5 destinations" de la navigation bar sont documentées par Android Developers (navigation-bar Compose). `prefers-reduced-motion` est documenté par MDN.

6) Platform deltas (15-25)

```

[
{
  "topic": "Unités de mesure utilisées dans les recommandations",
  "ios": "points (pt) dans les recommandations Apple (ex. 44pt, 11pt).",
  "android": "dp dans les recommandations Android (ex. 48dp, 8dp).",
  "web": "CSS pixels (px) dans WCAG (ex. 24×24 CSS px, 320 CSS px).",
  "source_urls": [
    "https://developer.apple.com/design/tips/",
    "https://support.google.com/accessibility/android/answer/7101858?hl=en",
    "https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum.html",
    "https://www.w3.org/WAI/WCAG22/Understanding/reflow"
  ],
  {
    "topic": "Cibles tactiles minimales",
    "ios": "≥44×44 pt (hit target).",
    "android": "≥48×48 dp.",
    "web": "≥24×24 CSS px (avec exceptions normatives).",
    "source_urls": [
      "https://developer.apple.com/design/tips/",
      "https://support.google.com/accessibility/android/answer/7101858?hl=en",
      "https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum.html"
    ],
    {
      ...
    }
  }
]

```

```

        "topic": "Espacement entre cibles",
        "ios": "Pas de valeur P0 unique dans les sources fournies; privilégier 44x44 pt et éviter collisions.",
        "android": "Recommandation explicite: séparer les targets de ≥8dp.",
        "web": "WCAG 2.5.8 autorise l'exception 'Spacing' (cercles 24px ne se chevauchent pas).",
        "source_urls": [
            "https://support.google.com/accessibility/android/answer/7101858?hl=en",
            "https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum.html"
        ],
    },
    {
        "topic": "Marges vs safe areas (iOS)",
        "ios": "Layout margins: 16pt (compact) / 20pt (regular). Safe areas: dynamiques et distinctes.",
        "android": "Non spécifié ici via P0 (hors scope de ce lot).",
        "web": "Reflow/viewport (WCAG) prime sur des marges fixes.",
        "source_urls": [
            "https://developer.apple.com/news/?id=s8sl4tpa",
            "https://www.w3.org/WAI/WCAG22/Understanding/reflow"
        ],
    },
    {
        "topic": "Navigation top-level (barre du bas)",
        "ios": "Contrainte forte: tab labels recommandés; tab bar à ne pas masquer sur sous-pages (guidance).",
        "android": "Navigation bar recommandée pour 3-5 destinations top-level.",
        "web": "Navigation doit rester cohérente sur un set de pages (WCAG 3.2.3).",
        "source_urls": [
            "https://developer.apple.com/news/?id=s8sl4tpa",
            "https://developer.android.com/develop/ui/compose/components/navigation-bar?hl=pl",
            "https://www.w3.org/WAI/WCAG22/Understanding/consistent-navigation.html"
        ],
    },
    {
        "topic": "Contraste (baseline AA)",
        "ios": "Apple demande un contraste suffisant (sans ratio chiffré dans la page 'tips').",
        "android": "Ce lot s'appuie sur WCAG pour ratios universels.",
        "web": "WCAG définit 4.5:1 (normal), 3:1 (large), 3:1 (non-texte).",
        "source_urls": [
            "https://developer.apple.com/design/tips/",
            "https://www.w3.org/TR/WCAG22/#contrast-minimum",
            "https://www.w3.org/WAI/WCAG21/Understanding/non-text-contrast.html"
        ],
    },
}

```

```

    "topic": "Focus clavier (Web)",
    "ios": "Non couvert ici comme exigence 'focus outline' native; on aligne
sur Web si surface WebView.",
    "android": "Non couvert ici comme exigence 'outline'; priorité aux
targets et navigation système.",
    "web": "Focus visible + non masqué + (option renforcée) focus appearance
(aire/contraste).",
    "source_urls": [
        "https://www.w3.org/WAI/WCAG22/Understanding/focus-visible.html",
        "https://www.w3.org/WAI/WCAG22/Understanding/focus-not-obscured-
minimum.html",
        "https://www.w3.org/WAI/WCAG22/Understanding/focus-appearance.html"
    ],
},
{
    "topic": "Gestes complexes et alternatives",
    "ios": "Appliquer le principe 'alternative simple' si gestes multipoints
sont exposés (surtout cross-platform).",
    "android": "Même principe + attention aux targets et à l'accès mono-
pointeur.",
    "web": "WCAG impose alternatives pour multipoint/path gestures et drag
(2.5.1 / 2.5.7).",
    "source_urls": [
        "https://www.w3.org/WAI/WCAG22/Understanding/pointer-gestures.html",
        "https://www.w3.org/WAI/WCAG22/Understanding/dragging-movements.html"
    ],
},
{
    "topic": "Réduction des activations accidentielles",
    "ios": "Non spécifié ici via P0; viser clarté et actions confirmées si
destructrices.",
    "android": "Non spécifié ici via P0; principe similaire recommandé.",
    "web": "WCAG 2.5.2: pointer cancellation (up-event/undo/abort).",
    "source_urls": [
        "https://www.w3.org/WAI/WCAG22/Understanding/pointer-cancellation"
    ],
},
{
    "topic": "Préférence réduction du mouvement",
    "ios": "Non sourcé ici via P0 (hors périmètre de ce lot).",
    "android": "Non sourcé ici via P0 (hors périmètre de ce lot).",
    "web": "MDN: `prefers-reduced-motion` pour réduire le mouvement non
essentiel.",
    "source_urls": [
        "https://developer.mozilla.org/en-US/docs/Web/CSS/Reference/At-rules/
%40media/prefers-reduced-motion"
    ],
},
{
    "topic": "Texte: redimensionnement et reflow",
    "ios": "Apple: lisibilité sans zoom (≥11 pt).",

```

```

    "android": "Non spécifié ici via P0 pour minimum typographique; on
s'appuie sur principes a11y.",
    "web": "WCAG: Resize Text 200% + Reflow 320/256 sans scroll 2D.",
    "source_urls": [
        "https://developer.apple.com/design/tips/",
        "https://www.w3.org/WAI/WCAG21/Understanding/resize-text.html",
        "https://www.w3.org/WAI/WCAG22/Understanding/reflow"
    ],
},
{
    "topic": "Text spacing override",
    "ios": "Non applicable tel quel; concept utile si contenu Web/HTML.",
    "android": "Non applicable tel quel; concept utile si contenu Web/HTML.",
    "web": "WCAG: pas de perte si override line-height/paragraph/letter/word
spacings (1.4.12).",
    "source_urls": [
        "https://www.w3.org/WAI/WCAG22/Understanding/text-spacing.html"
    ],
},
{
    "topic": "Formulaires: labels, erreurs, prévention",
    "ios": "Principes applicables (même si source normative ici côté WCAG).",
    "android": "Principes applicables (même si source normative ici côté
WCAG).",
    "web": "WCAG: labels/instructions, error id/suggestion, error prevention
(3.3.x).",
    "source_urls": [
        "https://www.w3.org/WAI/WCAG22/Understanding/labels-or-
instructions.html",
        "https://www.w3.org/WAI/WCAG22/Understanding/error-
identification.html",
        "https://www.w3.org/WAI/WCAG21/Understanding/error-suggestion.html",
        "https://www.w3.org/WAI/WCAG21/Understanding/error-prevention-legal-
financial-data.html"
    ],
},
{
    "topic": "Sémantique et composants custom",
    "ios": "Non détaillé ici; dépend des APIs natives.",
    "android": "Non détaillé ici; dépend des APIs natives.",
    "web": "WCAG: Name/Role/Value (4.1.2) + Status Messages (4.1.3).",
    "source_urls": [
        "https://www.w3.org/WAI/WCAG21/Understanding/name-role-value.html",
        "https://www.w3.org/WAI/WCAG22/Understanding/status-messages"
    ],
}
]

```

Les différences ci-dessus s'appuient uniquement sur sources P0 (Apple/Google/W3C/MDN) et restent factuelles (pas d'échelles "inventées").

7) Recommended defaults (uniquement sourcés sinon "TBD (no source)")

```
{  
    "touch_targets": {  
        "ios_min": { "value": 44, "unit": "pt", "source_url": "https://developer.apple.com/design/tips/" },  
        "android_min": { "value": 48, "unit": "dp", "source_url": "https://support.google.com/accessibility/android/answer/7101858?hl=en" },  
        "web_min": { "value": 24, "unit": "css_px", "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/target-size-minimum.html" },  
        "android_spacing_recommended": { "value": 8, "unit": "dp", "source_url": "https://support.google.com/accessibility/android/answer/7101858?hl=en" }  
    },  
    "ios_layout_margins": {  
        "compact_width": { "value": 16, "unit": "pt", "source_url": "https://developer.apple.com/news/?id=s8sl4tpa" },  
        "regular_width": { "value": 20, "unit": "pt", "source_url": "https://developer.apple.com/news/?id=s8sl4tpa" }  
    },  
    "typography": {  
        "ios_text_min": { "value": 11, "unit": "pt", "source_url": "https://developer.apple.com/design/tips/" },  
        "wcag_large_text_definition": { "value": { "pt": 18, "pt_bold": 14 },  
            "unit": "pt", "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/contrast-minimum.html" }  
    },  
    "contrast": {  
        "text_normal": { "value": 4.5, "unit": "ratio", "source_url": "https://www.w3.org/TR/WCAG22/#contrast-minimum" },  
        "text_large": { "value": 3.0, "unit": "ratio", "source_url": "https://www.w3.org/TR/WCAG22/#contrast-minimum" },  
        "ui_components": { "value": 3.0, "unit": "ratio", "source_url": "https://www.w3.org/WAI/WCAG21/Understanding/non-text-contrast.html" }  
    },  
    "focus": {  
        "focus_visible_required": { "value": true, "unit": "boolean",  
            "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-visible.html" },  
        "focus_not_obsured_minimum": { "value": true, "unit": "boolean",  
            "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-not-obsured-minimum.html" },  
        "focus_appearance_minimum": {  
            "value": { "min_perimeter_equivalent_px": 2, "min_contrast_ratio": 3 },  
            "unit": "px_and_ratio",  
            "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-appearance.html"  
        }  
    },  
    "text_resize_and_reflow": {  
        "resize_text": { "value": 200, "unit": "percent", "source_url": "https://www.w3.org/WAI/WCAG21/Understanding/resize-text.html" },  
    }  
}
```

```

    "reflow": {
        "value": { "vertical_scroll_width_css_px": 320,
    "horizontal_scroll_height_css_px": 256 },
        "unit": "css_px",
        "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/reflow"
    },
    "text_spacing_override": {
        "value": { "line_height": 1.5, "paragraph_spacing": 2,
    "letter_spacing": 0.12, "word_spacing": 0.16 },
        "unit": "multiplier_of_font_size",
        "source_url": "https://www.w3.org/WAI/WCAG22/Understanding/text-spacing.html"
    },
    "navigation": {
        "android_navigation_bar_destinations": { "value": { "min": 3, "max": 5 }, "unit": "count", "source_url": "https://developer.android.com/develop/ui/compose/components/navigation-bar?hl=pl" },
        "ios_tab_views_max_tabs": { "value": 6, "unit": "count", "source_url": "https://developer.apple.com/design/human-interface-guidelines/tab-views" }
    },
    "motion": {
        "prefers_reduced_motion": { "value": "reduce", "unit": "enum",
    "source_url": "https://developer.mozilla.org/en-US/docs/Web/CSS/Reference/At-rules/%40media/prefers-reduced-motion" },
        "tbd_motion_durations": { "value": "TBD (no source)", "unit": null,
    "source_url": null }
    }
}

```

Les defaults chiffrés ci-dessus correspondent à des valeurs explicitement documentées dans Apple/Google/W3C/MDN; tout ce qui n'a pas de source P0/P1 reste "TBD".

Contrôle qualité et génération de specs

8) QA checklist (20 points)

```

[
    "Vérifier toutes les cibles tactiles iOS: hit area ≥44×44 pt
(ios_touch_min_size).",
    "Vérifier toutes les cibles tactiles Android: hit area ≥48×48 dp
(android_touch_min_size).",
    "Vérifier Web: targets ≥24×24 CSS px ou exception WCAG valide
(web_touch_target_wcag_2_5_8).",
    "Vérifier Android: spacing entre targets ≥8dp quand applicable
(android_touch_spacing_8dp).",
    "Contraste texte normal ≥4.5:1 (contrast_text_normal_4_5_1).",
    "Contraste large text ≥3:1 + classification large text correcte
(contrast_text_large_3_1 + wcag_large_text_definition).",
    "Contraste non-texte ≥3:1 (contrast_ui_components_3_1).",
]

```

```

    "Aucune information/état transmis uniquement par couleur
(color_not_alone_wcag_1_4_1).",
    "Navigation clavier complète (web_keyboard_operable_wcag_2_1_1).",
    "Pas de piège clavier dans modales/menus/widgets
(web_no_keyboard_trap_wcag_2_1_2).",
    "Focus visible sur tout élément interactif
(web_focus_visible_wcag_2_4_7).",
    "Focus jamais entièrement masqué par overlays/sticky UI
(web_focus_not_obsured_min_wcag_2_4_11).",
    "Focus indicator respecte aire/contraste
(web_focus_appearance_min_wcag_2_4_13).",
    "Aucune navigation/submit automatique au focus
(on_focus_no_context_change_wcag_3_2_1).",
    "Aucun changement de contexte non annoncé sur changement d'input
(on_input_warn_context_change_wcag_3_2_2).",
    "Labels/instructions présents sur tous champs, options incluses
(labels_or_instructions_wcag_3_3_2).",
    "Erreurs: champ identifié + message texte clair
(error_identification_wcag_3_3_1).",
    "Suggestions de correction fournies quand connues
(error_suggestion_wcag_3_3_3).",

"Transactions/données sensibles: recul/confirmation/correction avant commit
(error_prevention_legal_financial_data_wcag_3_3_4).",
    "Composants custom: name/role/value exposés + status messages annoncés
(name_role_value_wcag_4_1_2 + status_messages_wcag_4_1_3)."
]

```

9) PROMPT FINAL UI SPEC GENERATOR (copier-coller)

Tu es "Design System Lead + Accessibility Lead + Platform UX Auditor".
Date du jour: 2026-02-02. Langue: FR.

OBJECTIF

Générer une spécification UI/UX actionnable (testable) et multi-plateforme (Web + iOS + Android) à partir d'un référentiel de règles universelles fourni sous forme JSON ("UNIVERSAL UI RULEBOOK V1 / Rule Matrix V3").

ENTRÉES

- A) RULEBOOK_JSON: colle ici la matrice Rule Matrix V3 (JSON).
- B) CONTEXTE_PRODUIT (optionnel): description courte du produit, users, contraintes.
- C) LISTE_ECRANS (optionnel): si fournie, produire une spec écran-par-écran.
Sinon, produire une spec générique applicable à tout produit.
- D) CONTRAINTES (optionnel): branding, tonalité, devices cibles, etc.

RÈGLES DE GÉNÉRATION (NON NÉGOCIABLES)

- 1) ZÉRO chiffre inventé. Si aucune valeur n'est sourcée dans RULEBOOK_JSON:
écrire value = null et marquer "TBD (no source)".
- 2) Les exigences MUST sont uniquement celles dont level == "must" ET

source_url != null dans RULEBOOK_JSON.
 3) Chaque exigence produite doit être testable: pour chaque règle applicable, fournir des "acceptance criteria" (comment tester).
 4) Ne pas citer Medium/StackOverflow/forums/blogs. S'appuyer exclusivement sur le RULEBOOK_JSON (qui contient les sources P0/P1).
 5) Produire une sortie structurée et réutilisable comme "source de vérité".

SORTIE ATTENDUE (FORMAT)

- Section 1: "Design tokens & metrics" (touch targets, spacing, typography, color, focus styles, motion policies) en JSON.
- Section 2: "Component spec" (states, interactions, a11y semantics, error handling) en JSON.
- Section 3: "Layout & navigation" (grids, margins/safe areas, IA de navigation, reflow/zoom) en JSON.
- Section 4: "Accessibility compliance map": liste de toutes les règles MUST + verdict PASS/FAIL/TBD + justification courte + steps de correction.
- Section 5: Si LISTE_ECRANS est fournie: répéter Sections 1-4 pour chaque écran.

LOGIQUE D'APPLICATION

- Pour chaque règle du RULEBOOK_JSON:
 - Déterminer si elle est applicable au contexte (Web/iOS/Android/cross).
 - Si applicable: intégrer explicitement l'exigence dans la spec + acceptance criteria.
 - Sinon: marquer "Not applicable" et expliquer en 1 phrase.
- S'il y a conflit entre plateformes: respecter les deltas (pt vs dp vs CSS px) et produire des variantes par plateforme, sans "moyenner" des valeurs.

COMMENCE

- 1) Affiche un résumé des MUST applicables.
- 2) Génère la spec complète selon le format ci-dessus.

10) Queries utilisées (25-50)

```
[  

  "site:developer.apple.com/design/tips 44x44 pt touch target",  

  "site:developer.apple.com/design/tips minimum font size 11 points",  

  "site:developer.apple.com/news id=s8sl4tpa 16 pt 20 pt margins",  

  

  "site:support.google.com accessibility android touch target size 48 48 dp 8  

  dp",  

  "WCAG 2.2 2.5.8 target size minimum 24 24 CSS pixels",  

  "WCAG 2.2 1.4.3 Contrast (Minimum) 4.5:1 3:1 large text definition 18pt  

  14pt bold",  

  "WCAG 2.2 2.4.13 Focus Appearance (Minimum) 2 CSS pixels 3:1",  

  "MDN prefers-reduced-motion CSS @media reduce motion guidance",  

  "site:www.w3.org/WAI/WCAG22/Understanding focus-visible 2.4.7",  

  "site:www.w3.org/WAI/WCAG22/Understanding focus-not-obsured-minimum  

  2.4.11",  

  "site:www.w3.org/WAI/WCAG22/Understanding/keyboard.html 2.1.1",
]
```

```
"site:www.w3.org/WAI/WCAG22/Understanding/no-keyboard-trap.html 2.1.2",
"site:www.w3.org/WAI/WCAG22/Understanding/resize-text.html 1.4.4 200%",
"site:www.w3.org/WAI/WCAG22/Understanding/text-spacing.html 1.4.12 line-
height 1.5 letter spacing 0.12 word 0.16",
"Understanding SC 1.4.11 Non-text Contrast WAI WCAG22",
"Understanding SC 1.4.4 Resize Text WAI WCAG22 200%",
"Understanding SC 1.4.1 Use of Color WAI WCAG Understanding use-of-color",
"site:www.w3.org/WAI/WCAG22/Understanding/orientation.html 1.3.4",
"site:www.w3.org/WAI/WCAG22/Understanding/error-identification.html 3.3.1",
"site:www.w3.org/WAI/WCAG22/Understanding/labels-or-instructions.html
3.3.2",
"site:www.w3.org/WAI/WCAG21/Understanding/error-suggestion.html 3.3.3",
"Error Prevention (Legal, Financial, Data) WAI 3.3.4",
"site:www.w3.org/WAI/WCAG22/Understanding/identify-input-purpose.html
1.3.5",
"site:www.w3.org/WAI/WCAG22/Understanding/accessible-authentication-
minimum.html 3.3.8",
"site:www.w3.org/WAI/WCAG22/Understanding/redundant-entry.html 3.3.7",
"site:www.w3.org/WAI/WCAG22/Understanding/consistent-help.html 3.2.6",
"site:www.w3.org/WAI/WCAG22/Understanding/multiple-ways.html 2.4.5",
"site:www.w3.org/WAI/WCAG22/Understanding/headings-and-labels.html 2.4.6",
"site:www.w3.org/WAI/WCAG22/Understanding/focus-order.html 2.4.3",
"site:www.w3.org/WAI/WCAG22/Understanding/link-purpose-in-context.html
2.4.4",
"site:www.w3.org/WAI/WCAG21/Understanding/bypass-blocks.html 2.4.1",
"site:www.w3.org/WAI/WCAG22/Understanding/on-focus 3.2.1",
"site:www.w3.org/WAI/WCAG22/Understanding/consistent-identification 3.2.4",
"site:www.w3.org/WAI/WCAG22/Understanding/pointer-cancellation 2.5.2",
"site:www.w3.org/WAI/WCAG22/Understanding/dragging-movements.html 2.5.7",
"site:www.w3.org/WAI/WCAG22/Understanding/label-in-name.html 2.5.3",
"site:www.w3.org/WAI/WCAG22/Understanding/character-key-shortcuts 2.1.4",
"site:www.w3.org/WAI/WCAG22/Understanding/status-messages 4.1.3",
"site:developer.android.com/develop/ui/compose/components/navigation-bar 3
to 5",

"site:developer.apple.com/design/human-interface-guidelines/tab-views Avoid
providing more than six tabs"
]
```