

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".

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_tabBars",
      "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": "nngroup.com",
    "coverage": ["ux_heuristics_when_no_p0"]
  },
  {
    "source_id": "baymard",
    "owner": "Baymard Institute",
    "root_domain": "baymard.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" (44×44 pt, 11 pt). Les marges (16 pt compact / 20 pt regular) sont explicitement citées dans le Q&A Design Evangelism. Android "Touch target size" explicite 48×48 dp et l'espacement recommandé ≥8 dp. WCAG 2.2 et ses documents Understanding sont la base pour les exigences Web (cibles 24×24 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/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_obscured",
    "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-obscured-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 ≥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 ≥ 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 44×44 pt.",
    "value": 44,
    "unit": "pt",
    "rationale": "Apple recommande 44×44 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 48×48 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).",
  }

```

```

    "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",

```

```

    "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_obscured_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-
obscured-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."
  }

```

```

    "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 essentiel).",
    "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",

```

```

    "source_quality": "P0",
    "last_verified_date": "2026-02-02",
    "test": "Zoom navigateur à 200% + vérification absence de chevauchement/
coupure/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 essentiel.",

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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/hidden (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, Hidden (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/hidden/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).",

```

```

    "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."
  },
  {

```

```

    "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 labélisées."
  },
  {
    "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 techno 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
programmatically (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 programmatically; 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 accidentelles (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 essentiel." },
  { "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 essentiel." },
  { "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 (44×44, 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 exigeance 'focus outline' native; on aligne
sur Web si surface WebView.",
    "android": "Non couvert ici comme exigeance '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 accidentelles",
    "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_obscured_minimum": { "value": true, "unit": "boolean",
"source_url": "https://www.w3.org/WAI/WCAG22/Understanding/focus-not-
obscured-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_obscured_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-obscured-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"
]
```