Blackboard Ally – Score Calculation

PDF

If Parsable (The document cannot be parsed) => 0
ElseIf Security (The document is password protected) => 0
ElseIf Scanned (The document is scanned) => 0
ElseIf LibraryReference (A valid library reference has been provided for the document) => 1
Else
    Multiply (
        If OCRd (The document is scanned but has been OCRd) => 0.66 Else => 1 *
        Contrast (Percentage of characters that have a contrast issue) *
        Weighted Average (
            0.05 (For fulfilling the Parsable, Security and Scanned checks)
            0.95
                If !Tagged (The document is not a tagged PDF) => 0
                ElseIf Tagged (The document is a tagged PDF)
                    Weighted Average (
                        0.05: LanguagePresence and LanguageCorrect (Does the document have the correct language set)
                        0.29925: HeadingsPresence (Are headings present in the document)
                        0.04275: HeadingsSequential (Are the headings correctly ordered)
                        0.04275: HeadingsHigherLevel (Are there any headings that go above level 6)
                        0. 04275: HeadingsStartAtOne (Does the heading structure start at level 1)
                        0.4275: AlternativeText (Percentage of images in the document that have a valid alternative description)
                        0.095: TableHeaders (Percentage of tables in the document that don't have semantic column headings)
)
)
)

Document (Word, etc.)

If Parsable (The document cannot be parsed) => 0
ElseIf Security (The document is password protected) => 0
ElseIf LibraryReference (A valid library reference has been provided for the document) => 1
Else
    Weighted Average (
        0.05 (For fulfilling the Parsable and Security checks)
        0.95: Multiply (
            Contrast (Percentage of characters that have a contrast issue) *
            Weighted Average (
                0.05: LanguagePresence and LanguageCorrect (Does the document have the correct language set)
                0.29925: HeadingsPresence (Are headings present in the document)
                0.04275: HeadingsSequential (Are the headings correctly ordered)
                0.04275: HeadingsHigherLevel (Are there any headings that go above level 6)
                0. 04275: HeadingsStartAtOne (Does the heading structure start at level 1)
                0.4275: AlternativeText (Percentage of images in the document that have a valid alternative description)
                0.095: TableHeaders (Percentage of tables in the document that don't have semantic column headings)
)
)
)

Presentation (Powerpoint, etc.)

If Parsable (The document can be parsed) => 0
ElseIf Security (The document is password protected) => 0
ElseIf LibraryReference (A valid library reference has been provided for the document) => 1
Else
    Weighted Average
        0.05 (For fulfilling the Parsable and Security checks)
        0.95: Multiply (
            Contrast (Percentage of characters that have a contrast issue) *
            Weighted Average (
                0.05: LanguagePresence and LanguageCorrect (Does the document have the correct language set)
                0.29925: HeadingsPresence (Are headings present in the document)
                0.04275: HeadingsSequential (Are the headings correctly ordered)
                0.04275: HeadingsHigherLevel (Are there any headings that go above level 6)
                0. 04275: HeadingsStartAtOne (Does the heading structure start at level 1)
                0.4275: AlternativeText (Percentage of images in the document that have a valid alternative description)
                0.095: TableHeaders (Percentage of tables in the document that don't have semantic column headings)
)
)
)

Image

If ImageSeizure (Can the image cause seizures) => 1
Else
    If ImageDecorative (Has the image been marked as decorative) => 1
    Else
        Weighted Average (
            0.50: ImageDescription (Does the image have an alternative description)
            0.25: ImageOcr (Are there any keywords in the image that are not in the description)
            0.25: ImageContrast (Is there any text in the image that has low contrast compared to its background)
)

HTML

Multiply (
    HtmlColorContrast (Percentage of characters that have a contrast issue) *
    Weighted Average (
        0.25: HtmlHeadingsPresence (Are headings present in the document)
        0.07: HtmlEmptyHeading (Are there any empty heading tags in the document)
        0.03: HtmlHeadingOrder (Are the heading tags correctly ordered)
        0.25: HtmlImageAlt (Percentage of images in the document that have a valid alternative description)
        0.05: HtmlObjectAlt (Percentage of object tags in the document that have a valid alternative description)
        0.05: HtmlImageRedundantAlt (The document contains buttons/links with text that is repeated in the containing image's alternative description)
        0.15: HtmlTdHasHeader (Percentage of tables in the document that don't have semantic column headings)
        0.05: HtmlLinkName (The document contains links without discernable text)
        0.04: HtmlLabel (The document has form elements without a label)
        0.02: HtmlTitle (The document is missing a title)
        0.02: HtmlHasLang (The document does not have a language set)
        0.01: HtmlList (The document has malformed lists)
        0.01: HtmlDefinitionList (The document has malformed definition lists)
)
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