

VISUELLE UNTERSCHIEDE IN SCREENSHOTS VON ARCHIVIERTEN WEBSEITEN

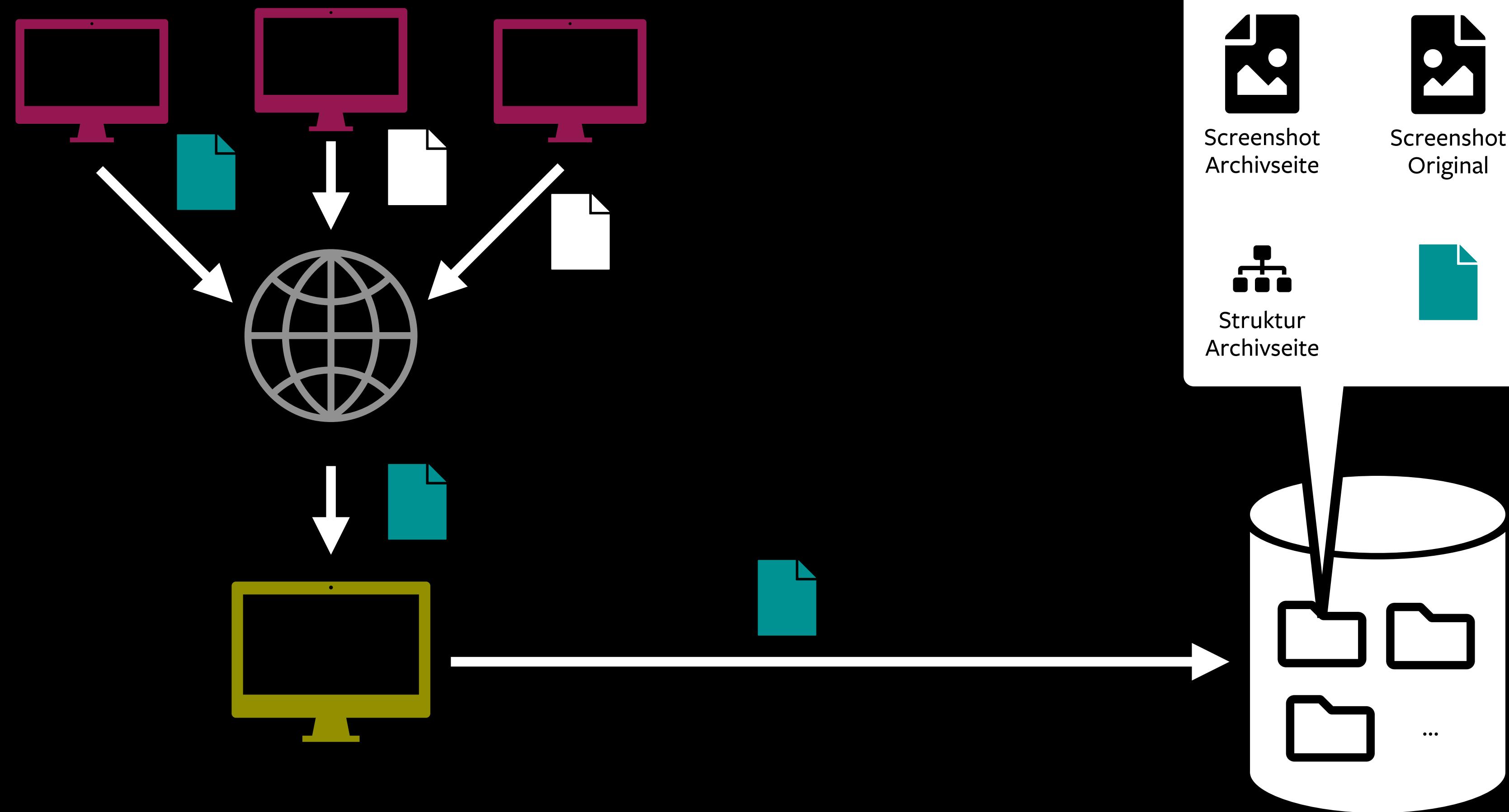
Masterarbeit von Theresa Elstner

INHALT

- ▶ MOTIVATION: QUALITÄTSBEWERTUNG VON WEBARCHIVEN
- ▶ ARCHIVIERUNGSFEHLER
 - ▶ FEHLERTYPEN
 - ▶ FEHLERMAß
- ▶ GENERELLES FRAMEWORK ZUR QUALITÄTSBEWERTUNG
- ▶ UMSETZUNG DES FRAMEWORKS
 - ▶ VERSCHIEBUNGEN
- ▶ ZUSAMMENFASSUNG

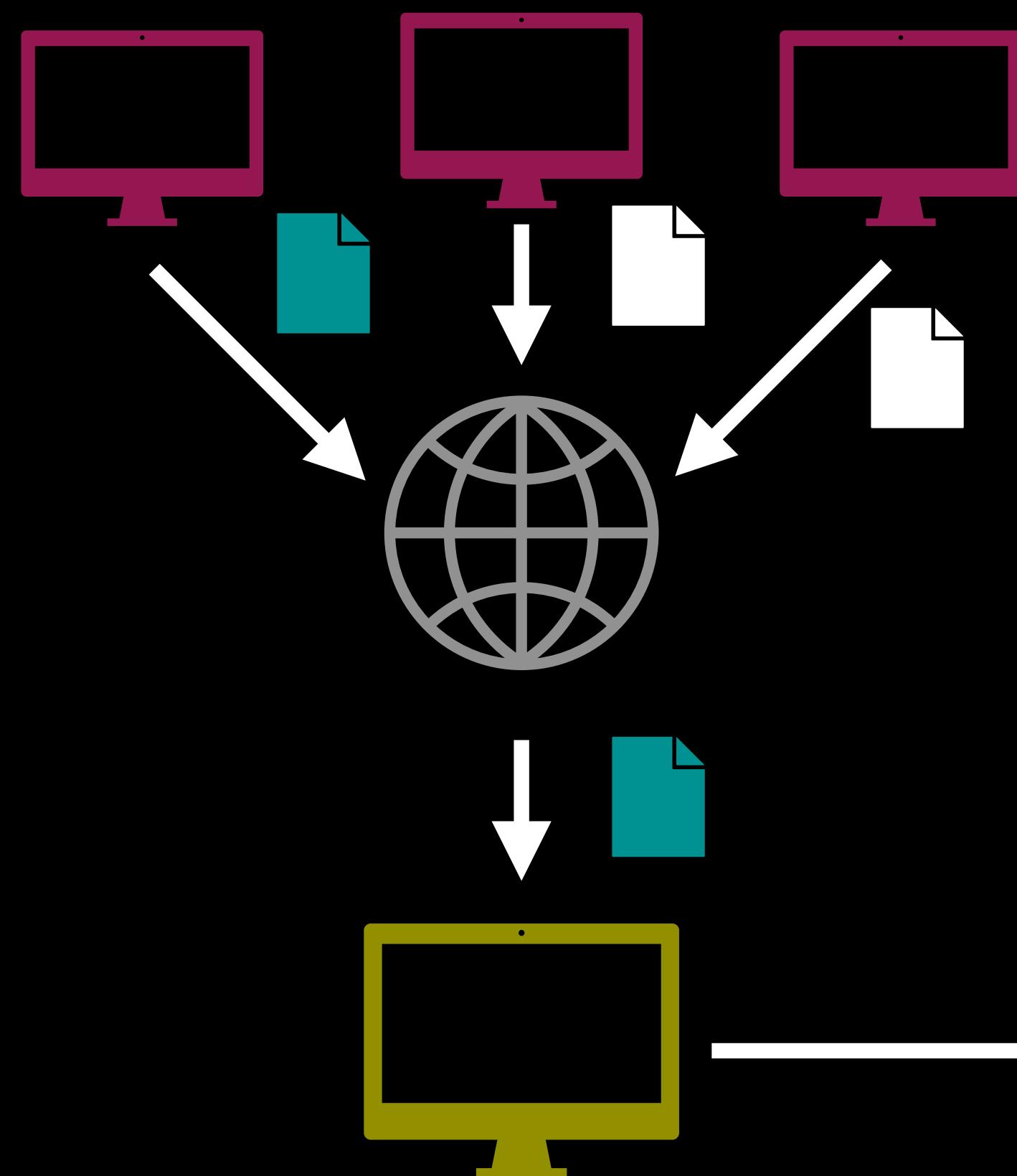
MOTIVATION

WEBARCHIVE

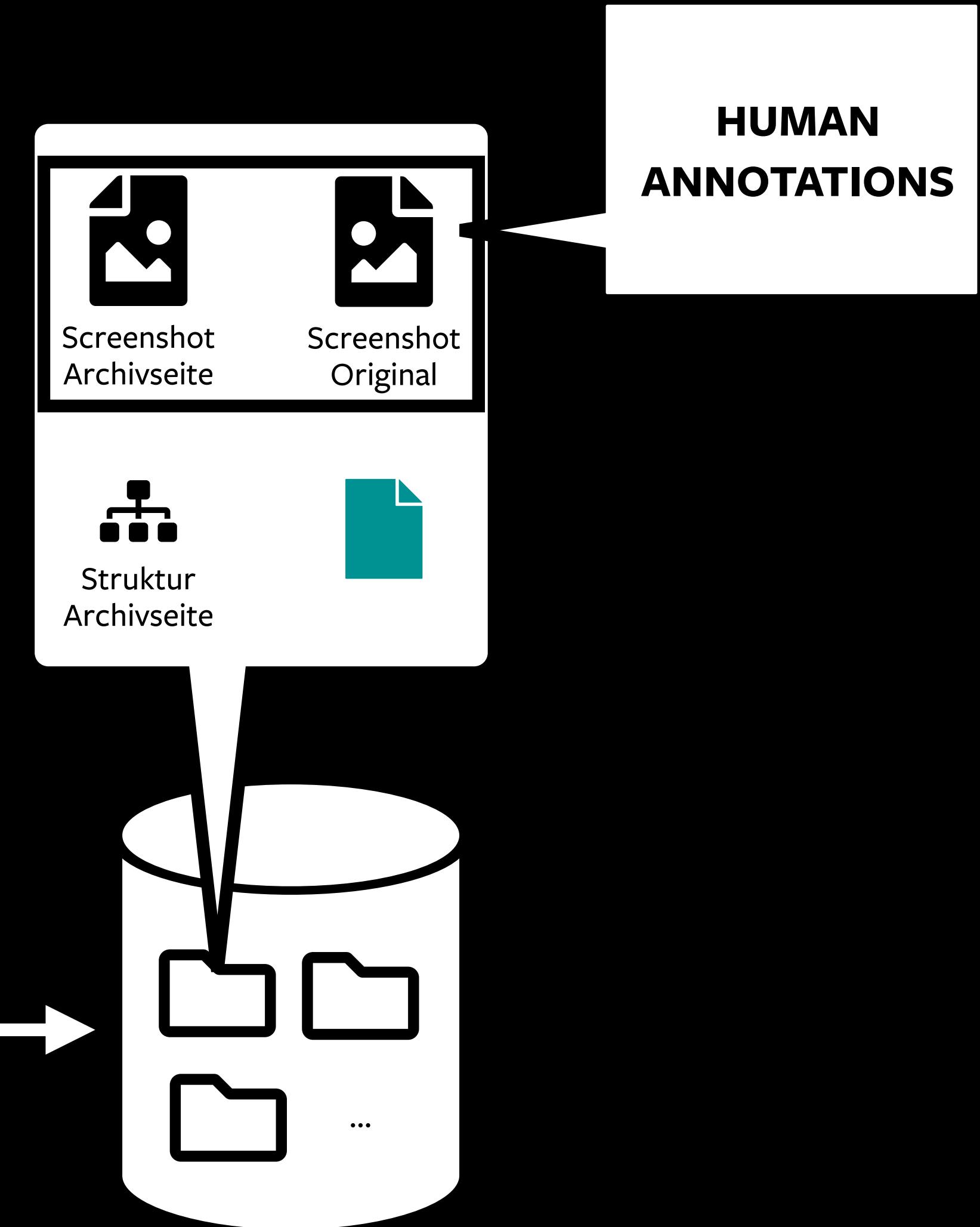


MOTIVATION

WEBARCHIVE



WEBARCHIVIERUNG



DAS WEBARCHIV

MOTIVATION QUALITÄT VON WEBARCHIVEN

► PROBLEM

- archivierte Seite ist nicht immer identisch zur originalen Webseite
- einige archivierte Webseiten unbrauchbar
- Qualitätsbewertung der archivierten Webseiten benötigt
- manuell?
- automatisiert!

Creators Remix Roundup: Top 10 Remixes Of The Year



<p>Including Florence + the Machine, DJ Wordy, Glasser, Major Lazer, Mark Ronson, G-Dragon, Gang Gang Dance and James Lavelle.</p>

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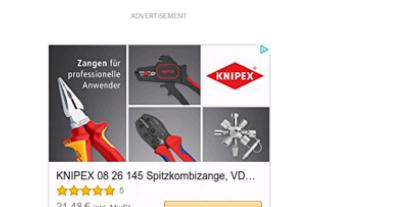
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Mark Ronson: "Record Collection" (Felix Bloxom aka Plastic Plates remix)

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MOTIVATION

QUALITÄTSBEWERTUNG

► 1. Idee: Pixelvergleich

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- je größer die Anzahl der unterschiedlichen Pixel, umso schlechter die Qualität
- ABER...

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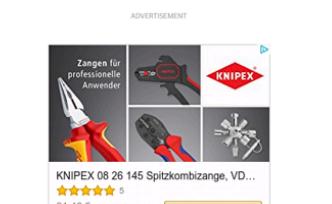
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- ... Anzahl unterschiedlicher Pixel sagt wenig über Qualität:
- relativer Fehler: ca. 32 %

MUSIC Creators Remix Roundup: Top 10 Remixes Of The Year

KATHLEEN FLOOD Nov 11, 2011, 6:02pm

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5 ★★★★
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■: gleich ■: verschieden

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► Intuition:

- rekonstruiere die originale Webseite *so gut es geht* aus der archivierten Webseite
- z.B. verschiebe falsch positionierte Elemente
- vergleiche die Rekonstruktion mit dem Original
- erhalte einen Fehler
- wenn Fehler zu hoch, markiere die archivierte Seite als unbrauchbar

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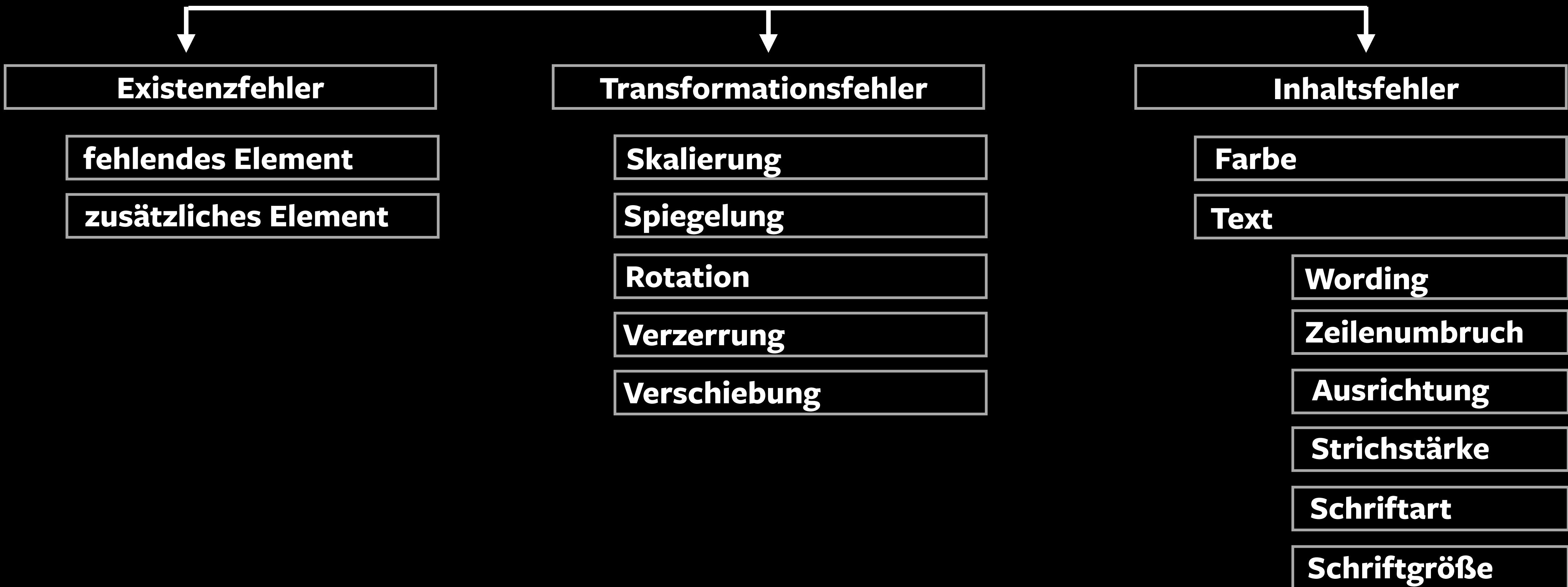
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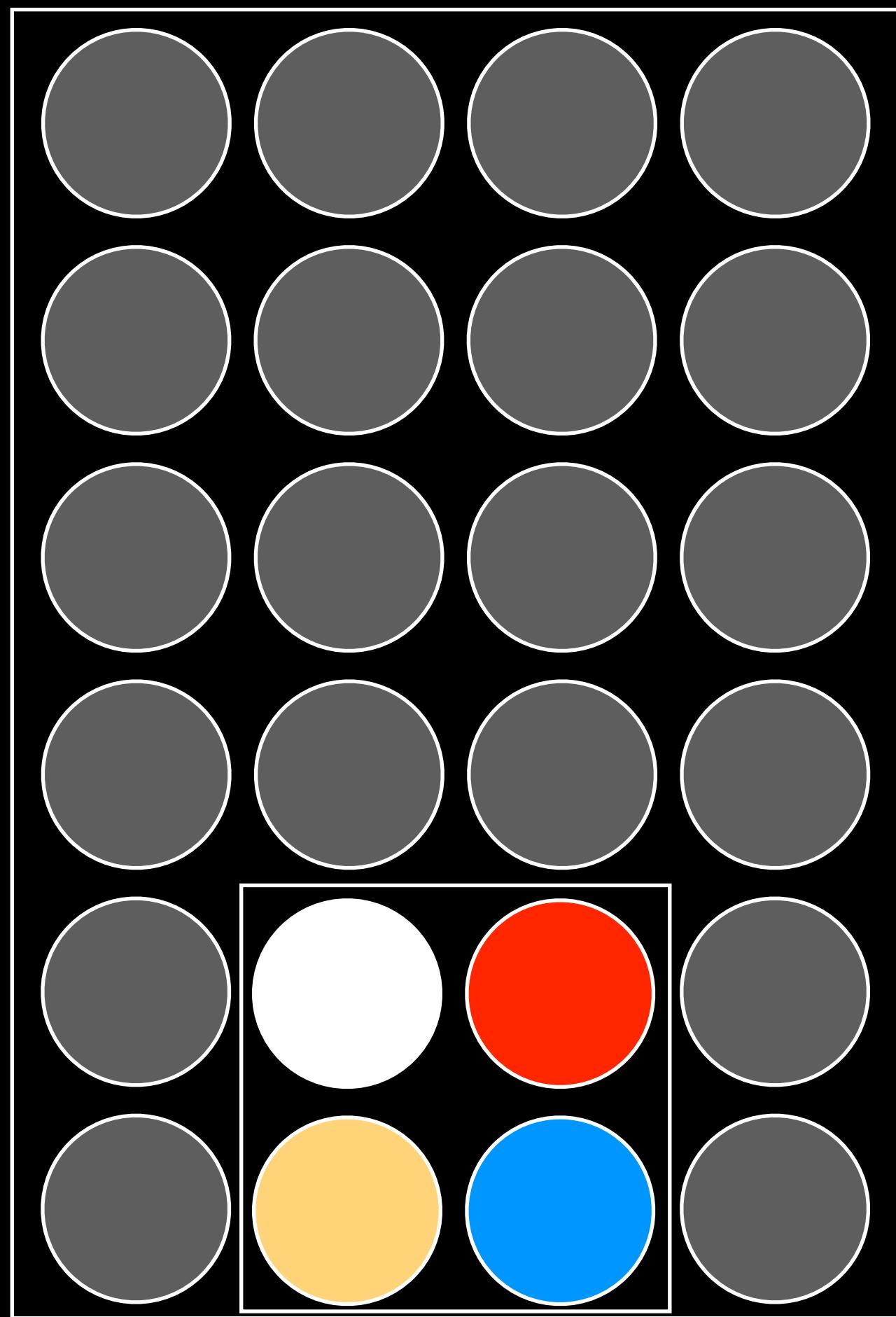
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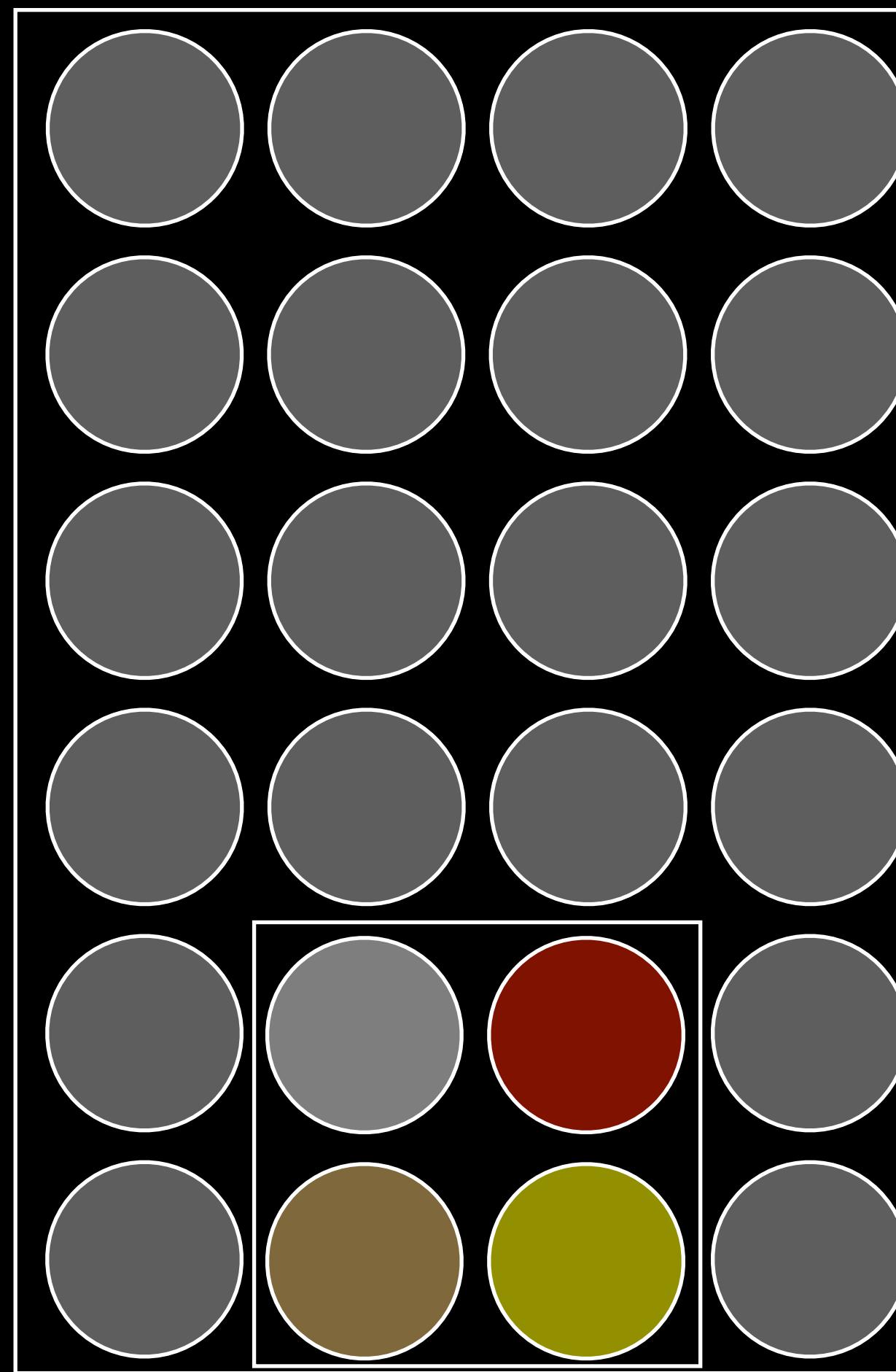


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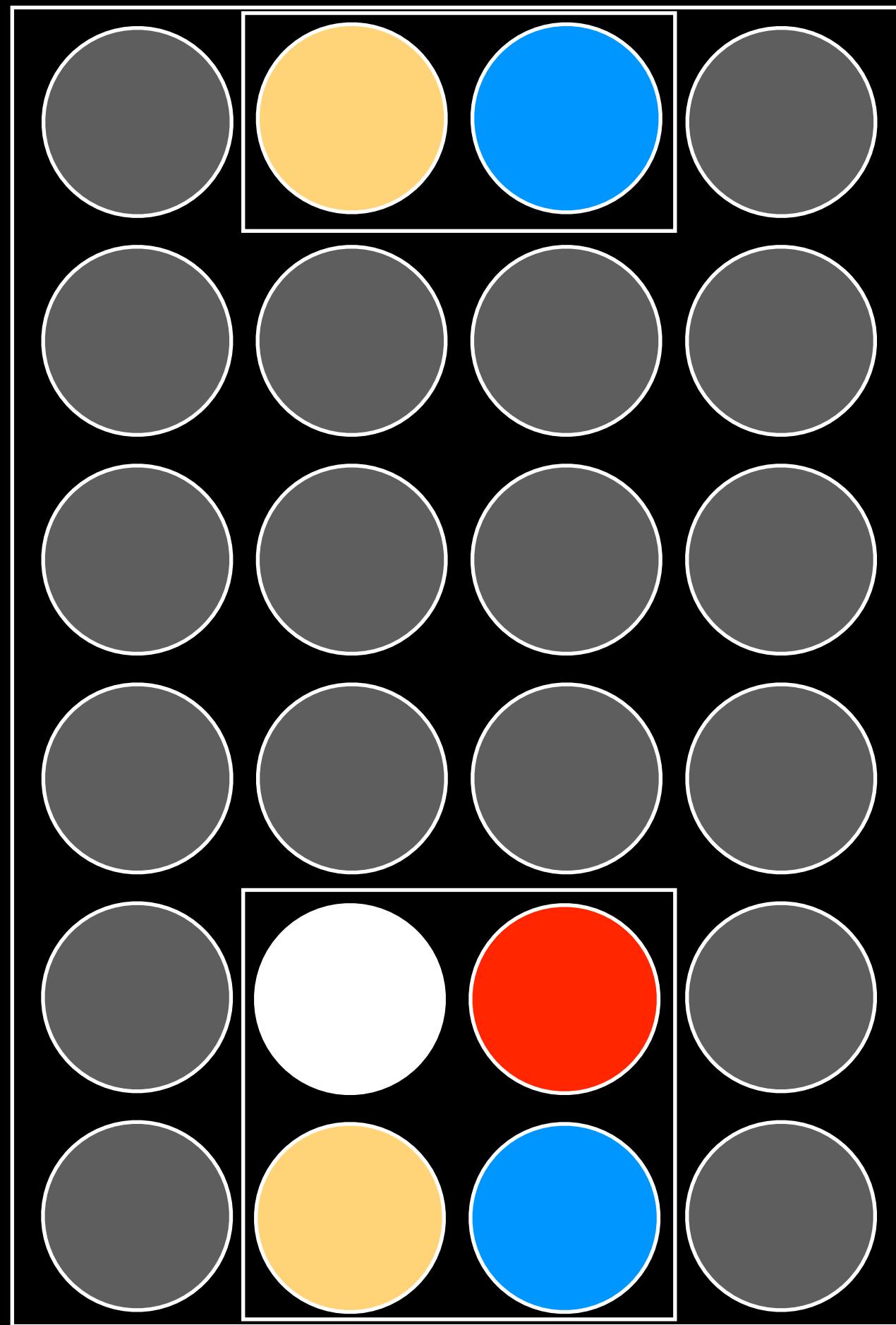
Screenshot Original



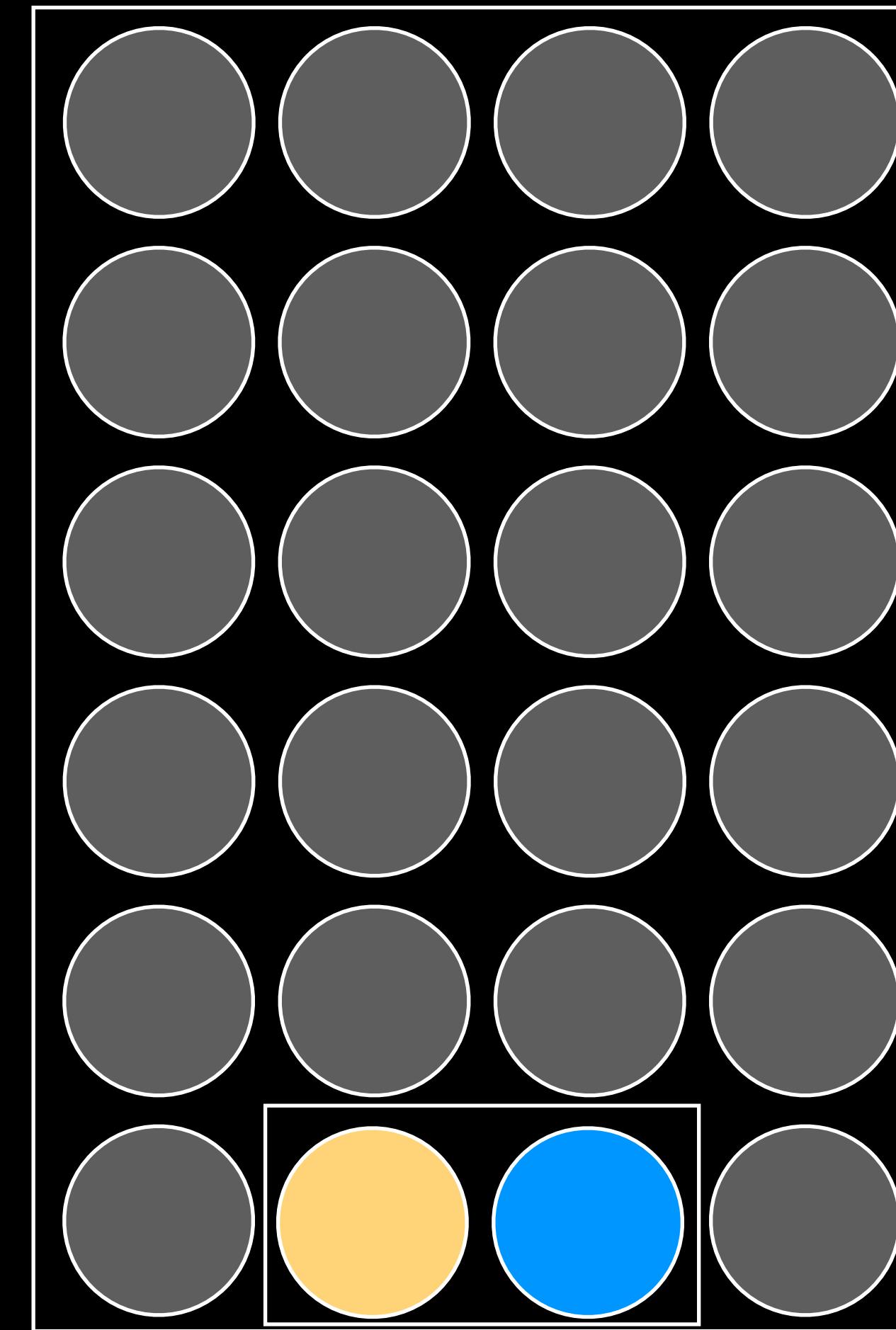
Screenshot Archiv

ARCHIVIERUNGSFEHLER

PROBLEM: ZUORDNUNG KORRESPONDIERENDER ELEMENTE



Screenshot Original



Screenshot Archiv

ARCHIVIERUNGSFEHLER

IMPLIKATIONEN

- ▶ Fehlerkategorisierung:
 - ▶ nicht alle Fehler sind eindeutig kategorisierbar
 - ▶ perfekte Zuordnung korrespondierender Elemente ist darum nicht möglich
- ▶ d.h. korrekte Rekonstruktion der originalen Webseite aus der archivierten Webseite sind nicht mit Sicherheit für alle Webseiten möglich
- ▶ es heißt aber nicht, dass nicht für einige Webseiten eine perfekte Rekonstruktion existieren kann
- ▶ automatisierte Qualitätsbewertung möglich

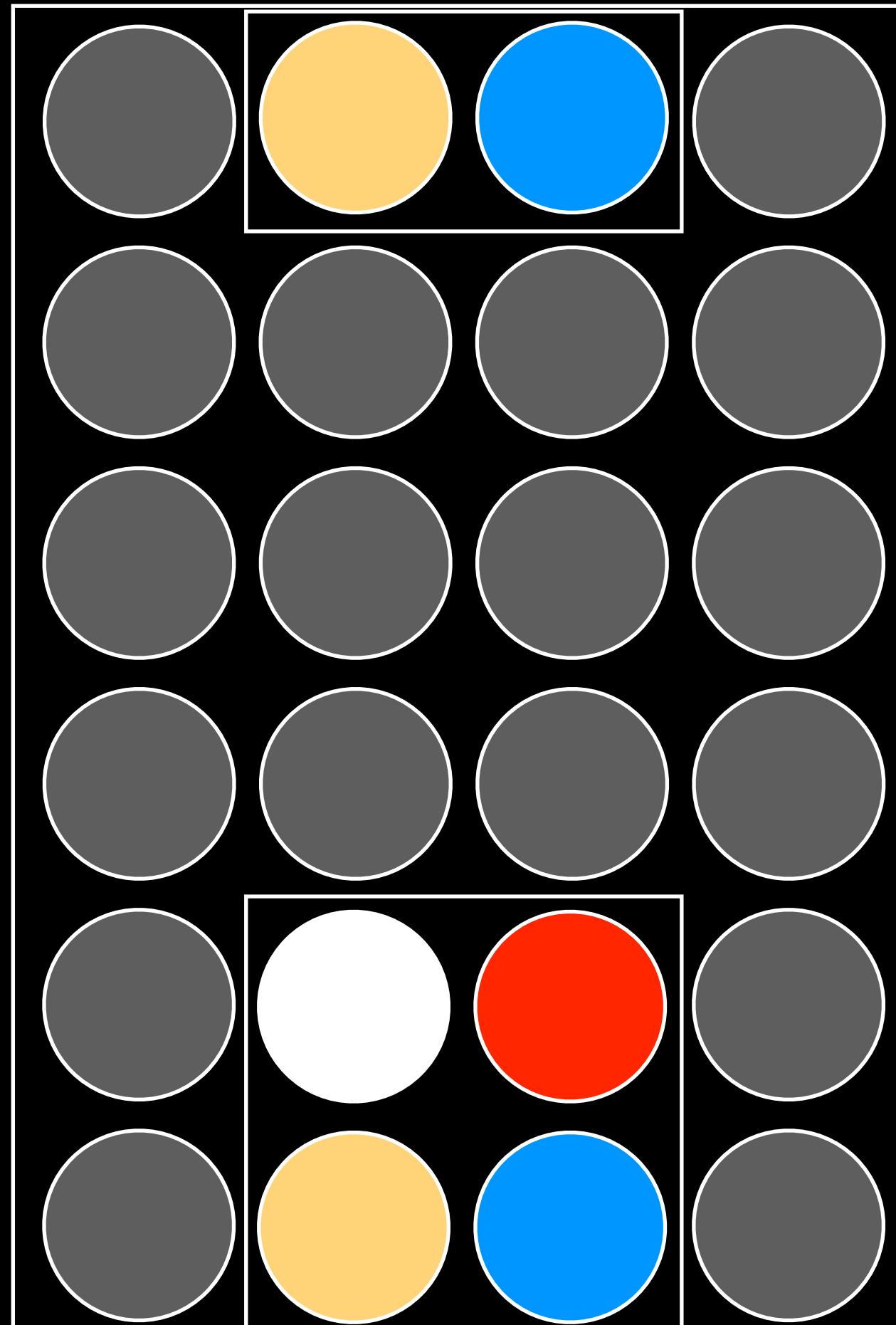
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FEHLERMAß

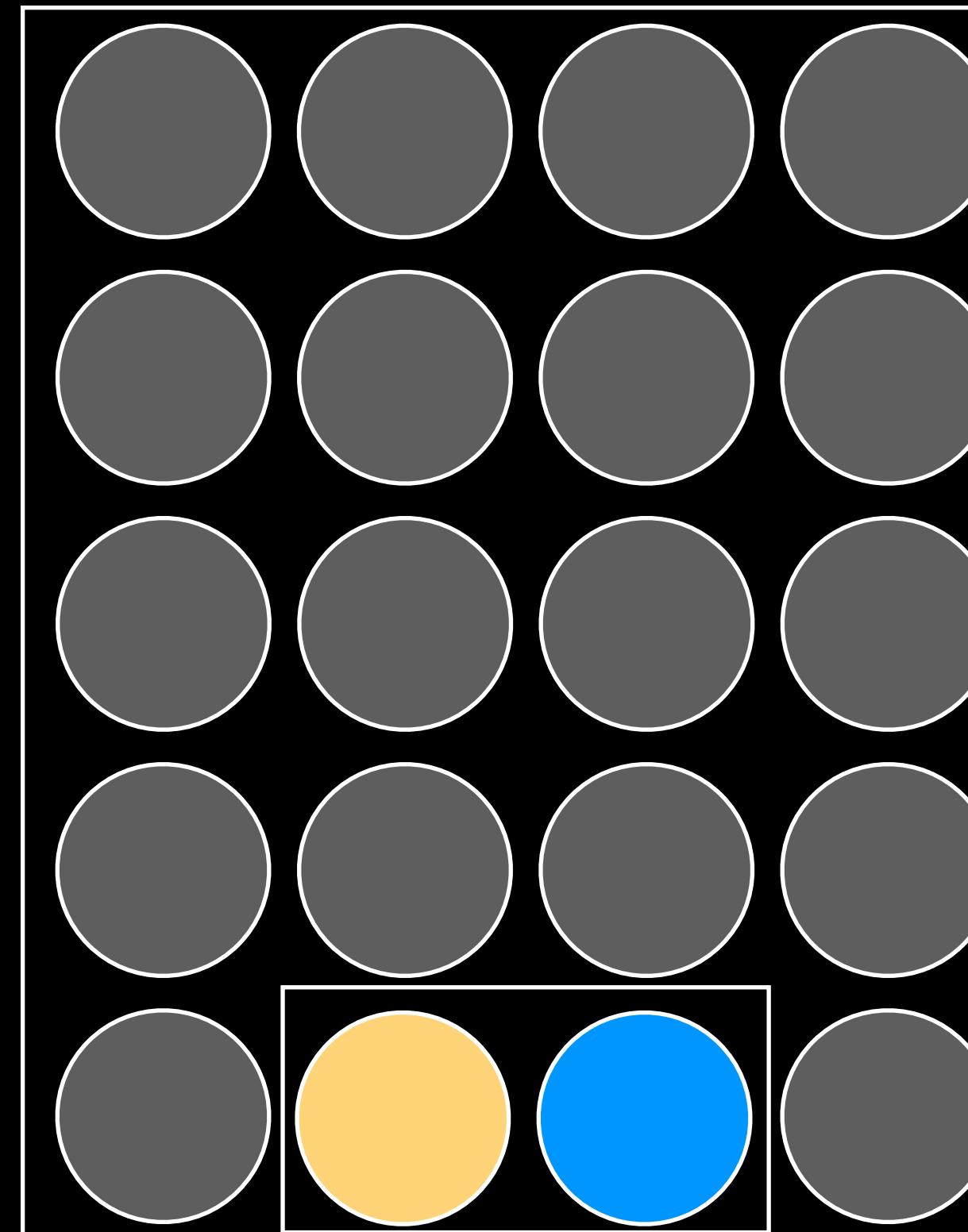
- ▶ Pixel-zu-Pixel-Vergleich zwischen archiviertem und originalem Screenshot
- ▶ angepasste Edit-Distanz nach Levenshtein:
 - ▶ **Insertion** = Pixel einfügen
 - ▶ **Deletion** = Pixel löschen
 - ▶ **Substitution** = Pixel durch einen Pixel in einer anderen Farbe ersetzen
- ▶ Fehler = minimale Anzahl der Pixel auf denen Operationen nötig sind um das Original aus dem Archivbild zu erzeugen

ARCHIVIERUNGSFEHLER

FEHLERMAß BEISPIEL



VS.



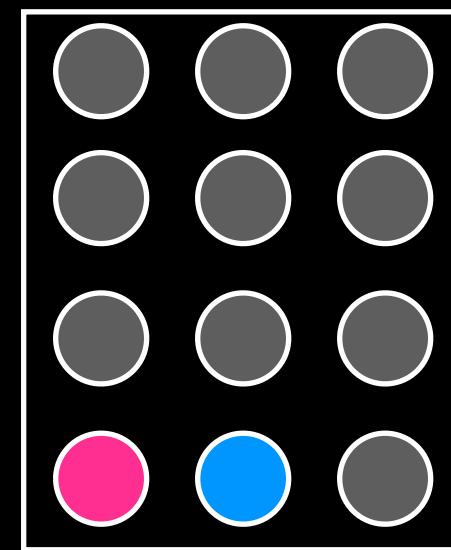
= 4 Insertion + 2 Substitution = 6 Px

Screenshot Original

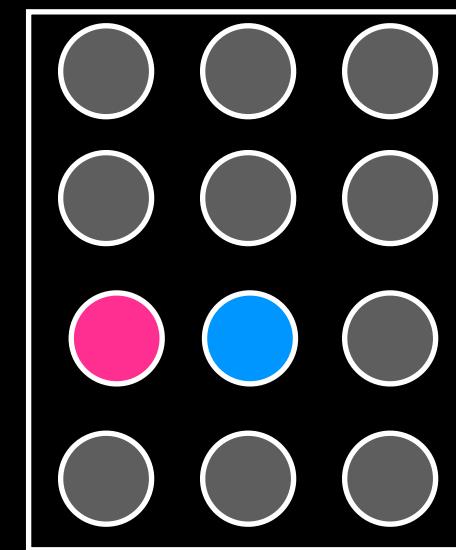
Screenshot Archiv

ARCHIVIERUNGSFEHLER

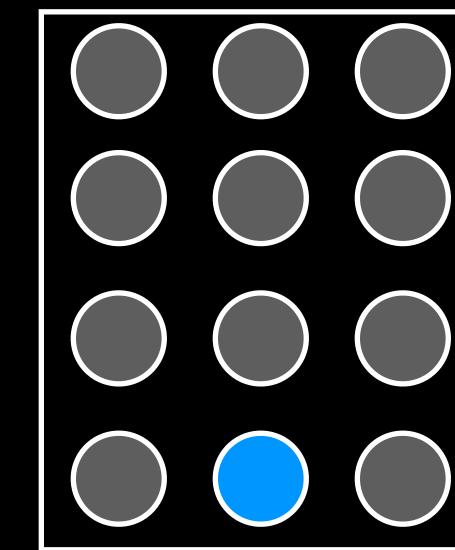
FEHLERMAß KRITIK



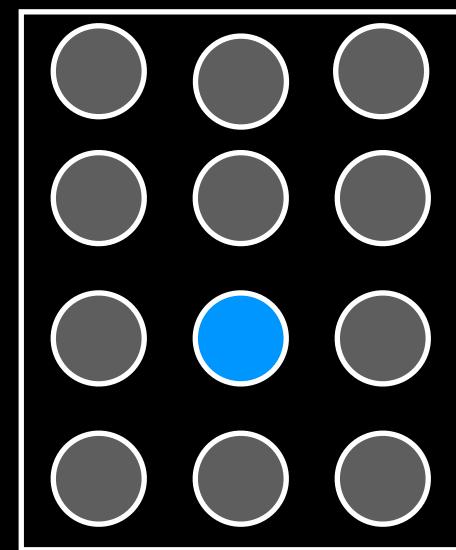
vs.



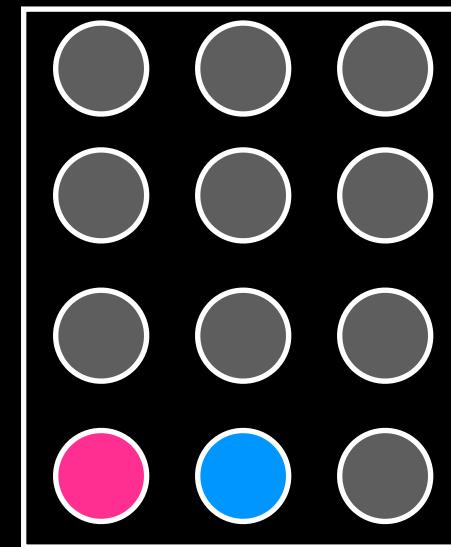
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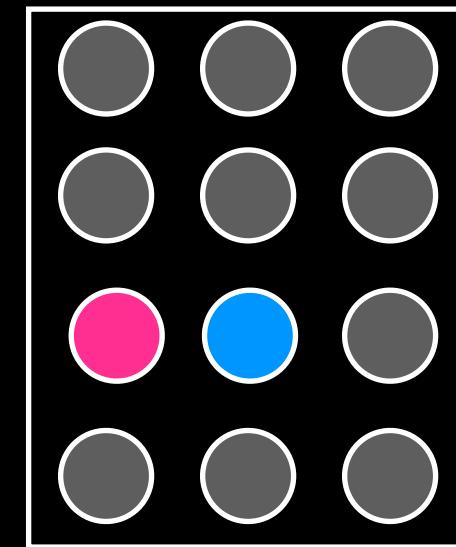
vs.



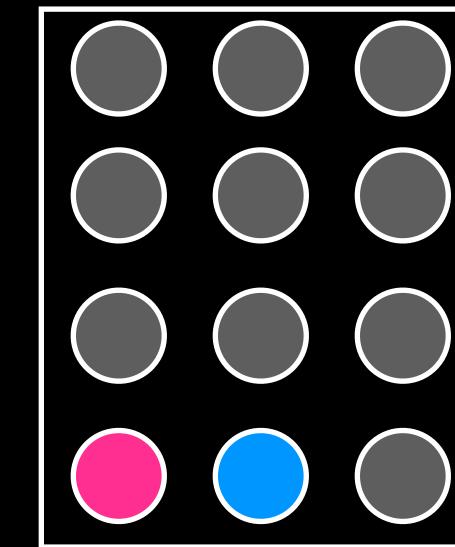
► Fehler abhängig von Elementgröße



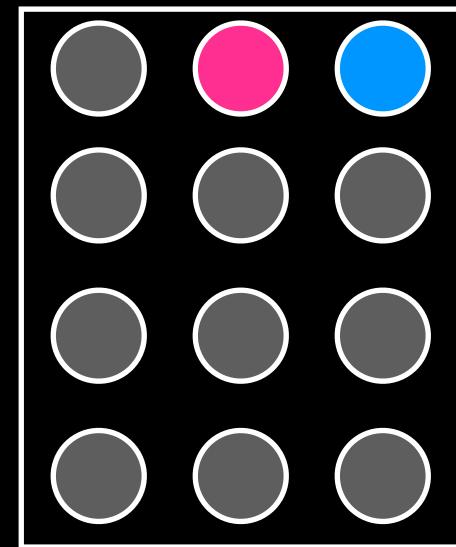
vs.



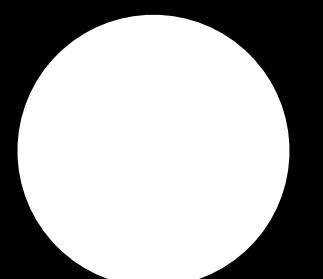
=



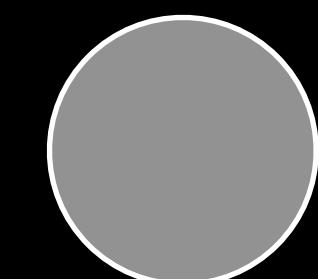
vs.



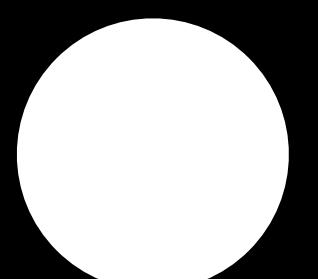
► unterschiedliche Verschiebungslängen resultieren in gleich große Fehler



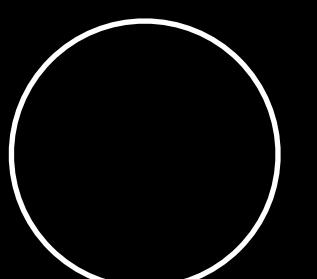
vs.



=



vs.

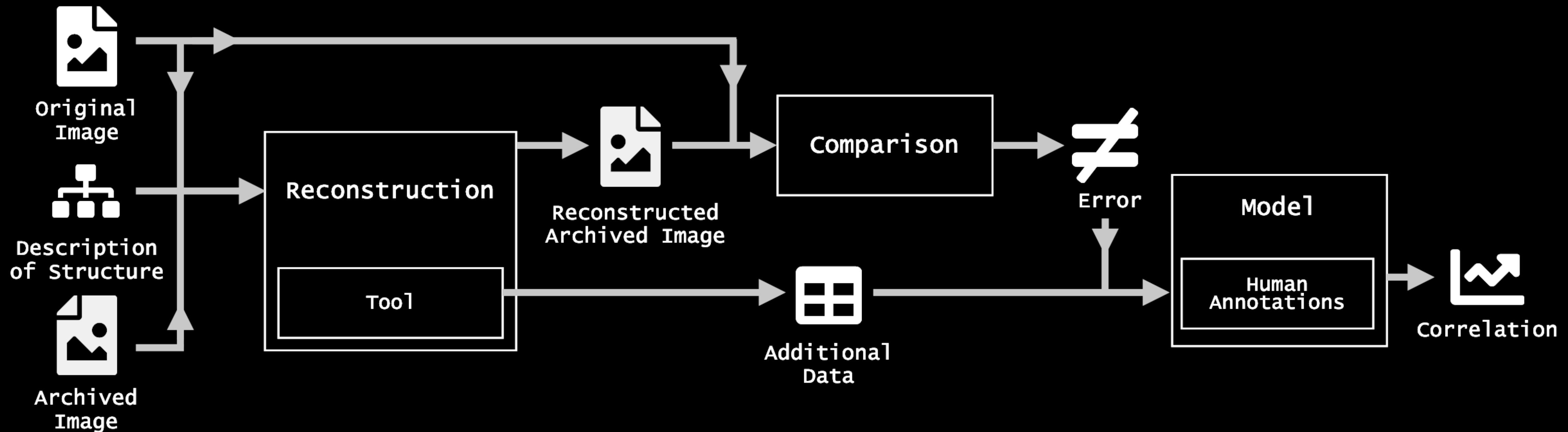


► keine Unterscheidung zwischen kleinen und großen Farbabweichungen

GENERELLES FRAMEWORK

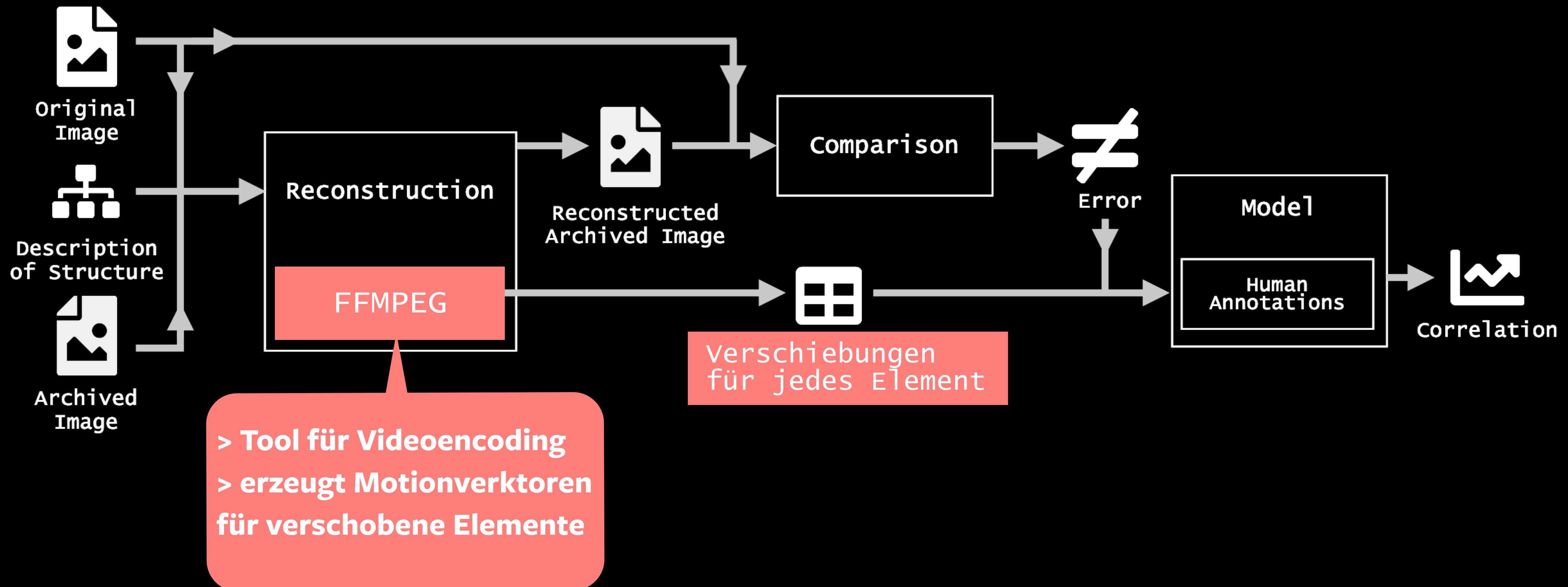
ENTWICKLUNG EINER AUTOMATISIERTEN QUALITÄTSBEWERTUNG

► Ablauf



UMSETZUNG DES FRAMEWORKS

VERSCHIEBUNGEN REDUZIEREN



UMSETZUNG DES FRAMEWORKS

VERSCHIEBUNGEN REDUZIEREN

The screenshot shows the original AdFly homepage. At the top, there's a yellow banner with the text "Get paid to share your links on the Internet!". Below it, three boxes promote account creation, earnings per visitor, and social sharing. A green box highlights a user review from "Will Miles from United States". A red box highlights a statistics section showing "Links clicked today: 7 4 3 8 2 2 1" and "Users registered: 5 3 7 3 9 0 7". The bottom features a dark footer with navigation links and payment method icons.

originale Seite

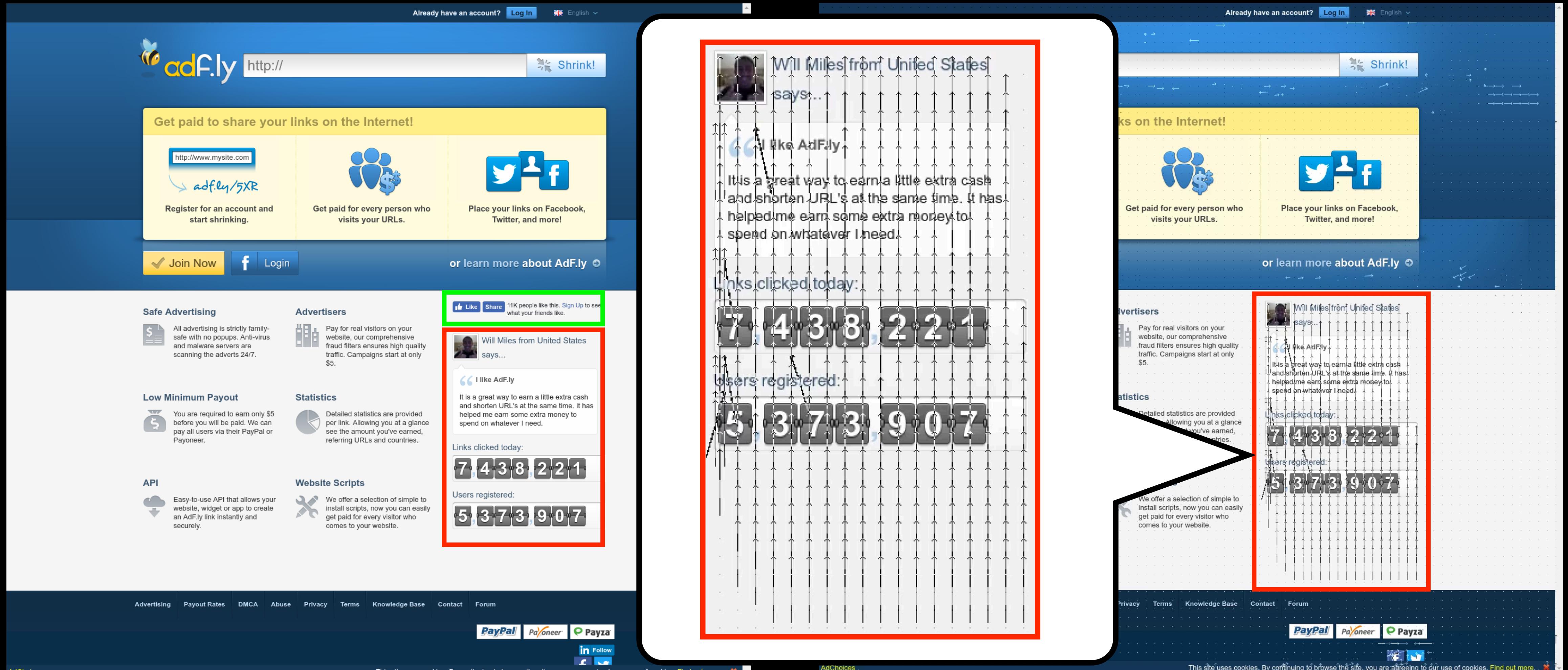
The screenshot shows the archived version of the AdFly homepage. The layout is identical to the original, but the user review and statistics sections have been modified. The user review now reads: "Will Miles from United States says... I like AdFly. It is a great way to earn a little extra cash and shorten URL's at the same time. It has helped me earn some extra money to spend on whatever I need." The statistics section also appears different, though the numbers remain the same. The bottom features a dark footer with navigation links and payment method icons.

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archivierte Seite

UMSETZUNG DES FRAMEWORKS

VERSCHIEBUNGEN REDUZIEREN: MOTIONVEKTOREN



originale Seite

19

archivierte Seite mit Motionvektoren

UMSETZUNG DES FRAMEWORKS

VERSCHIEBUNGEN REDUZIEREN

The screenshot shows the original version of the AdFly website. At the top, there's a yellow banner with the text "Get paid to share your links on the Internet!". Below it, three boxes promote account creation, earnings per visitor, and social sharing. A green box highlights a Facebook post from "Will Miles from United States". A red box highlights a section showing "Links clicked today" (7 4 3 8 2 2 1) and "Users registered" (5 3 7 3 9 0 7). The bottom features a dark footer with navigation links and payment method icons.

originale Seite

The screenshot shows the archived version of the AdFly website. The layout is identical to the original, but the highlighted sections are different. A red box highlights a comment from "Will Miles from United States" about liking AdFly. Another red box highlights the "Links clicked today" and "Users registered" statistics. The footer is also identical to the original.

archivierte Seite

UMSETZUNG DES FRAMEWORKS

VERSCHIEBUNGEN REDUZIEREN + FEHLENDE ELEMENTE FINDEN?

The screenshot shows the official AdFly homepage. At the top, there's a navigation bar with links for 'Already have an account?' and 'Log In', and a language selector for 'English'. Below the header is a yellow banner with the text 'Get paid to share your links on the Internet!'. Three main sections are displayed: 'Register for an account and start shrinking.', 'Get paid for every person who visits your URLs.', and 'Place your links on Facebook, Twitter, and more!'. Below these sections are buttons for 'Join Now' and 'Login', along with social media links for Facebook and Twitter. A large blue section below contains sections for 'Safe Advertising', 'Advertisers', 'Low Minimum Payout', 'Statistics', 'API', and 'Website Scripts'. A testimonial from 'Will Miles from United States' is highlighted with a red box. The footer includes links for 'Advertising', 'Payout Rates', 'DMCA', 'Abuse', 'Privacy', 'Terms', 'Knowledge Base', 'Contact', and 'Forum', as well as payment method icons for PayPal, Payoneer, and Payza. A 'Follow' button for LinkedIn is also present.

originale Seite

The screenshot shows a reconstructed version of the AdFly homepage. The layout is identical to the original, including the header, yellow banner, and main sections. However, the testimonial from 'Will Miles' has been moved to a separate, larger box at the top right of the page. The rest of the content, including the sections for advertising, payout, and statistics, remains in their original positions. The footer is also identical to the original version.

21

rekonstruierte archivierte Seite

UMSETZUNG DES FRAMEWORKS

VERSCHIEBUNGEN REDUZIEREN + FEHLENDE ELEMENTE FINDEN?

originale Seite

22

rekonstruierte archivierte Seite

UMSETZUNG DES FRAMEWORKS

VERSCHIEBUNGEN REDUZIEREN + FEHLENDE ELEMENTE FINDEN?

The screenshot shows the original AdFly homepage. At the top, there's a navigation bar with links for 'Already have an account?' and 'Log In', and a language selector for 'English'. Below the header is a yellow banner with the text 'Get paid to share your links on the Internet!'. Three main features are highlighted: 'Register for an account and start shrinking.', 'Get paid for every person who visits your URLs.', and 'Place your links on Facebook, Twitter, and more!'. Below the banner are two calls-to-action: 'Join Now' and 'Login'. A blue bar at the bottom contains links for 'Advertising', 'Payout Rates', 'DMCA', 'Abuse', 'Privacy', 'Terms', 'Knowledge Base', 'Contact', and 'Forum'. Payment method icons for 'PayPal', 'Payoneer', and 'Payza' are also present. A small 'AdChoices' link is located at the very bottom.

originale Seite

The screenshot shows a reconstructed version of the AdFly homepage. The layout is identical to the original, including the header, yellow banner, feature cards, and calls-to-action. However, several elements are highlighted with green boxes: the 'Safe Advertising' section, the 'Advertisers' section, the 'Low Minimum Payout' section, the 'Statistics' section, the 'API' section, and the 'Website Scripts' section. The payment method icons at the bottom are also highlighted with a green box. A large green box spans across the bottom of the page, covering the 'AdChoices' link and the footer text.

23

rekonstruierte archivierte Seite

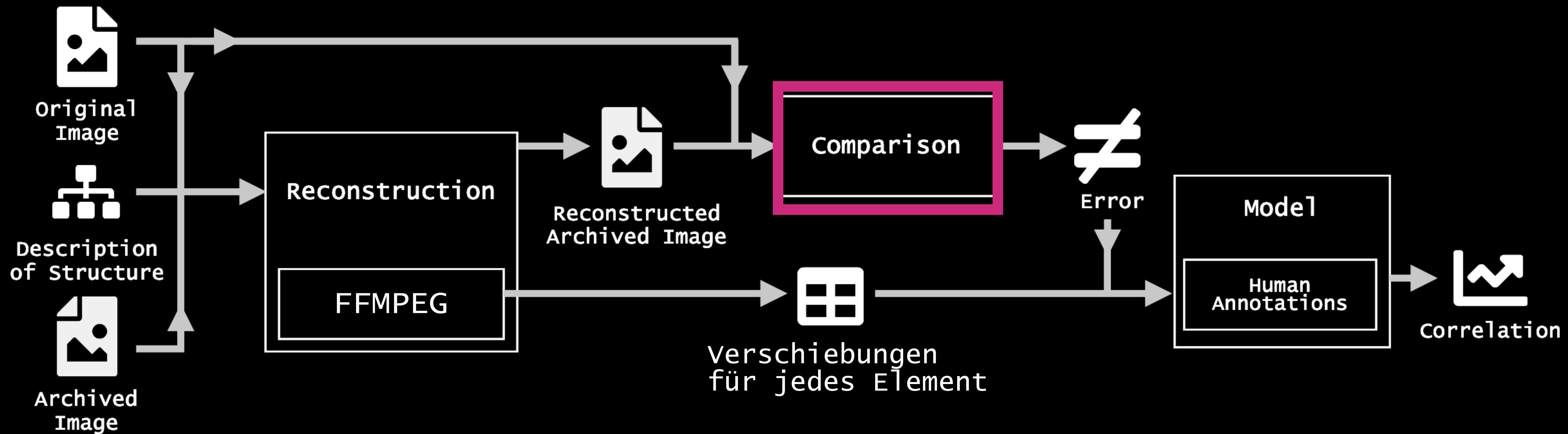
UMSETZUNG DES FRAMEWORKS

VERSCHIEBUNGEN REDUZIEREN + FEHLENDE ELEMENTE FINDEN?

- ▶ **PROBLEM:**
- ▶ Lücken der verschobenen Elemente korrespondieren nicht immer mit den fehlenden Elementen im Original

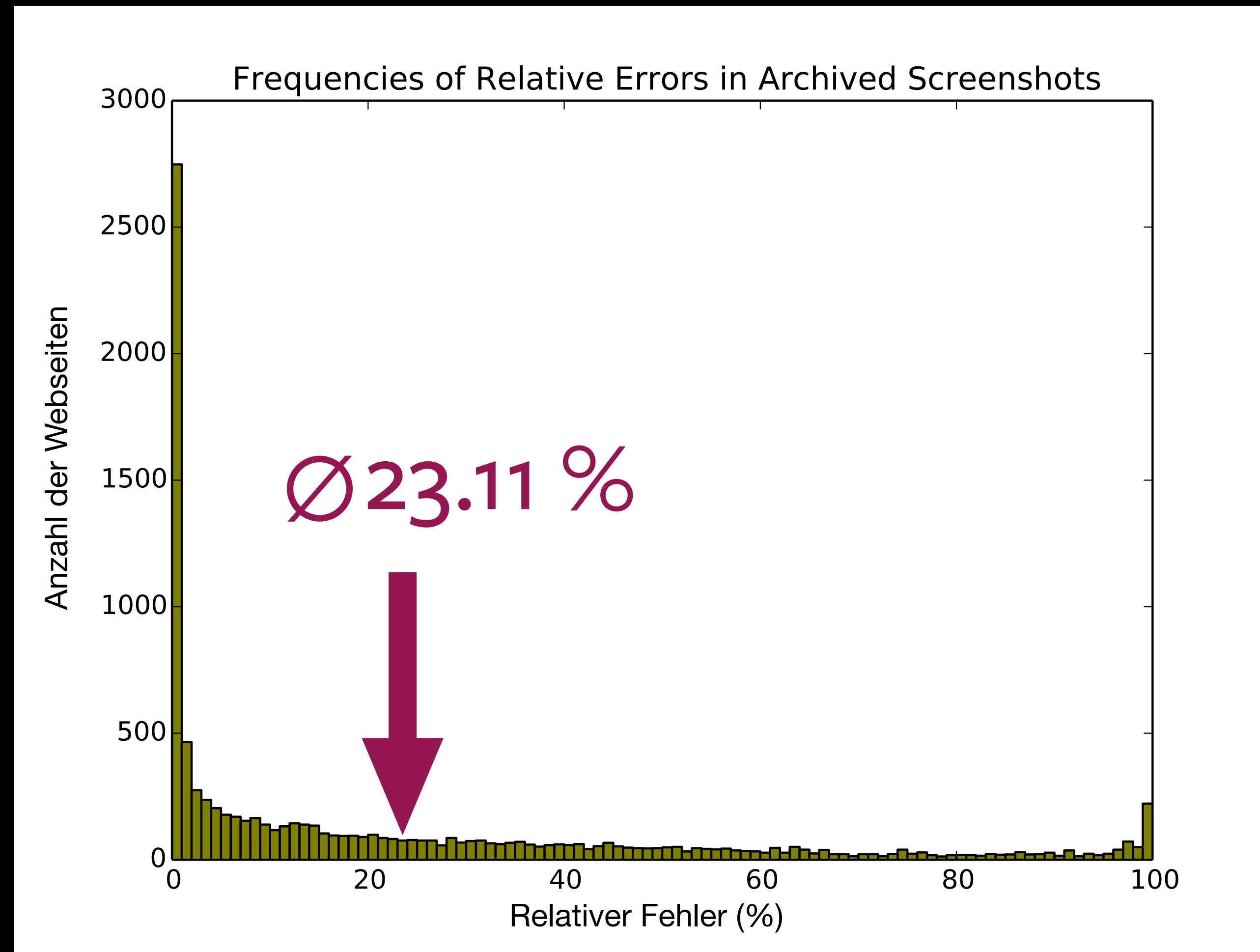
UMSETZUNG DES FRAMEWORKS

VERSCHIEBUNGEN REDUZIEREN



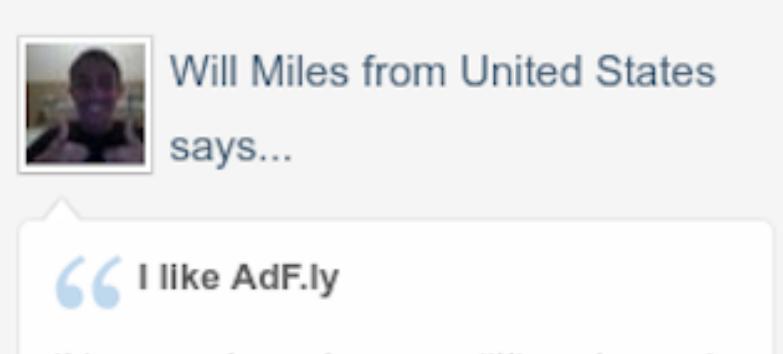
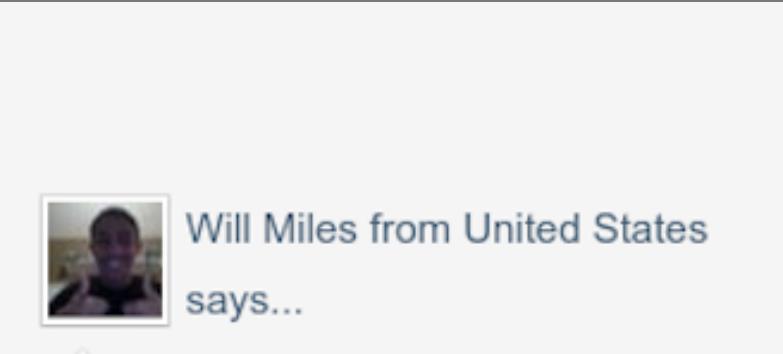
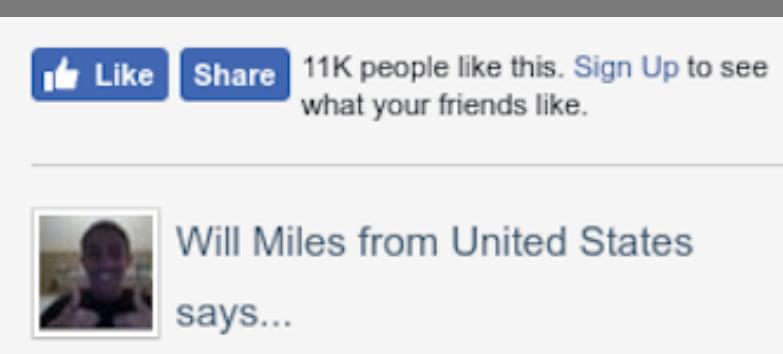
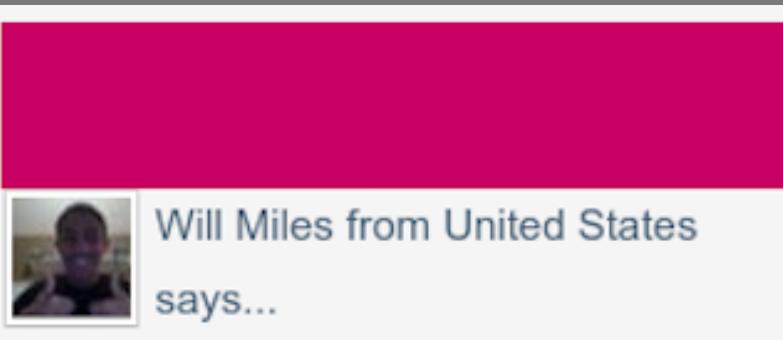
UMSETZUNG DES FRAMEWORKS

VERSCHIEBUNGEN REDUZIEREN: FEHLER DER ARCHIVSEITEN



UMSETZUNG DES FRAMEWORKS

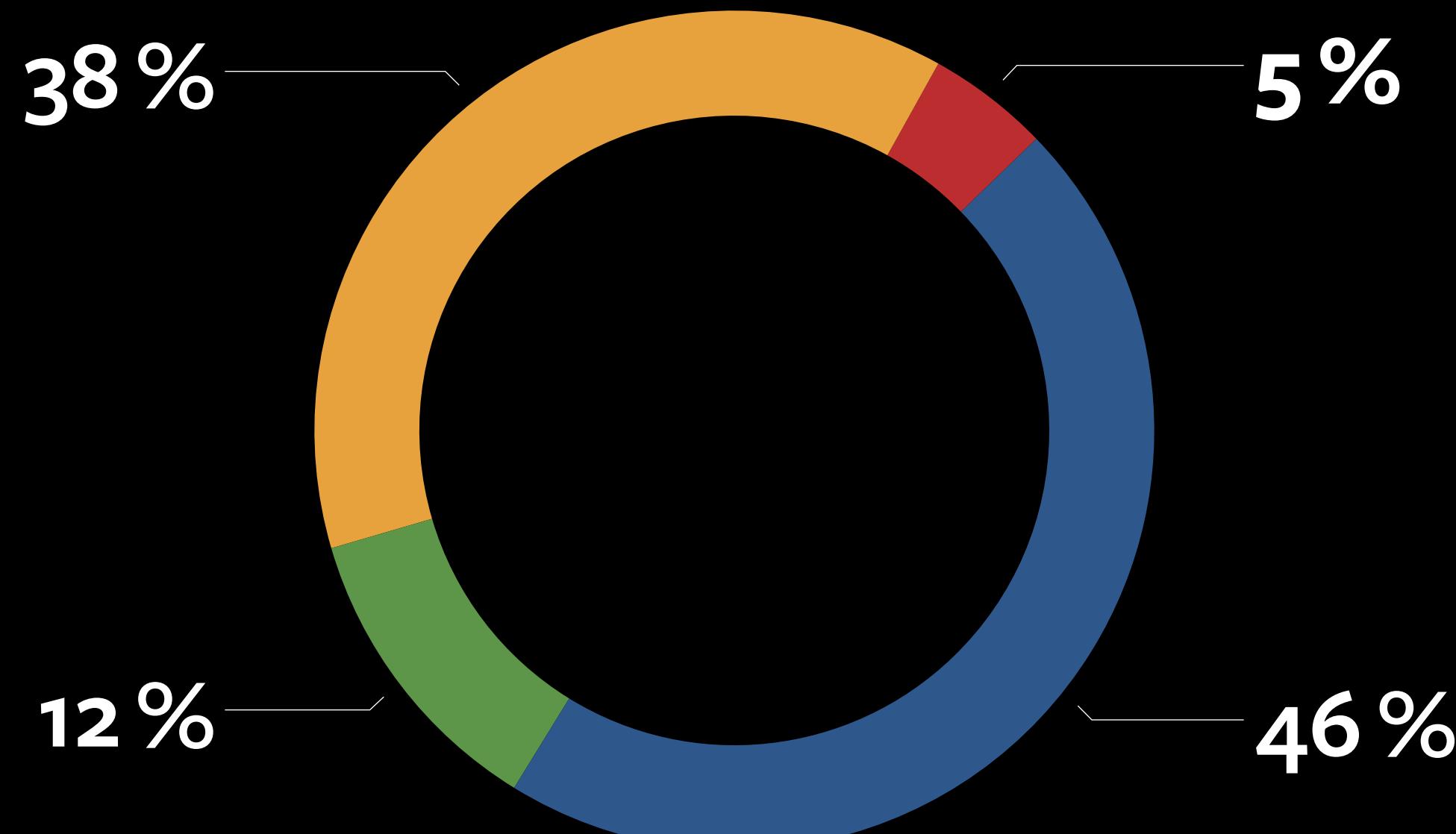
VERSCHIEBUNGEN REDUZIEREN: FEHLER DER REKONSTRUKTION

METHODE	AVG RELATIVER FEHLER	VERBESSERUNG
KEINE	 23.11 %	-
HÄUFIGSTE FARBE IM ARCHIVBILD	 21.07 %	2,04 %
KOPIE AUS ORIGINAL (UPPER BOUND)	 20.85 %	2,26 %
VERSCHIEDEN VON ORIGINAL (LOWER BOUND)	 21.34 %	1,77 %

UMSETZUNG DES FRAMEWORKS

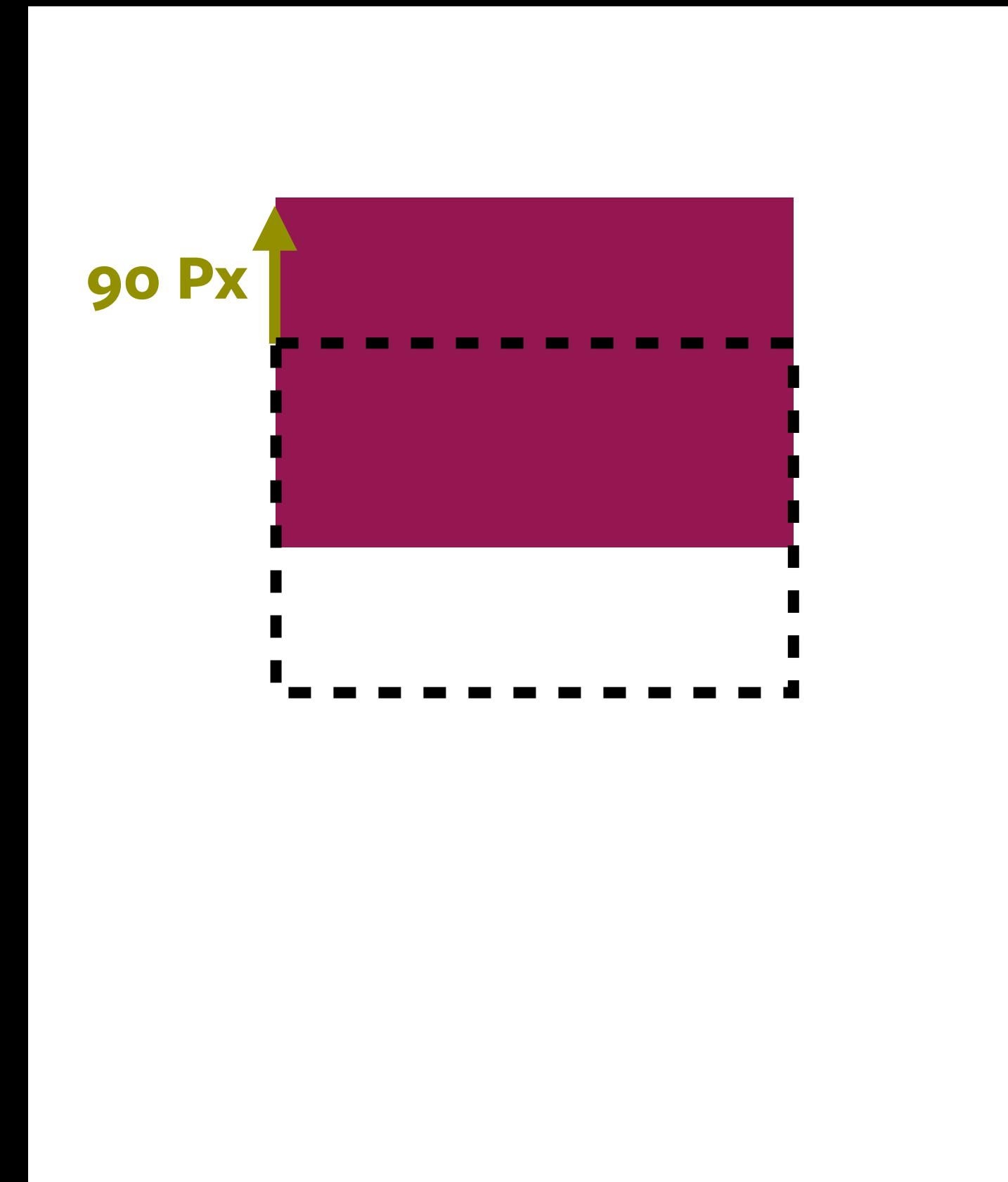
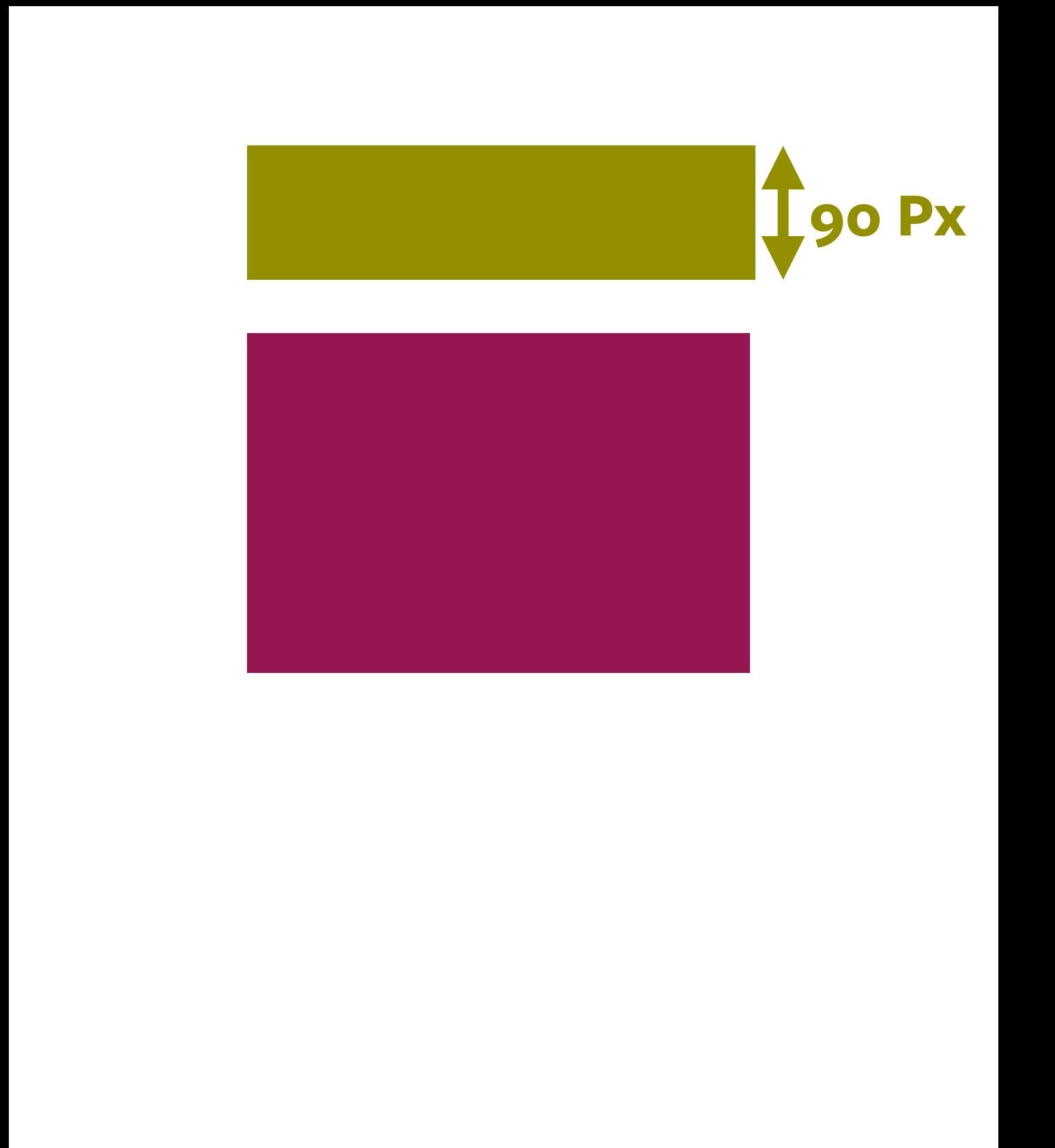
ANALYSE DER VERSCHIEBUNGEN NACH RICHTUNG

● to top ● to bottom ● to left ● to right



UMSETZUNG DES FRAMEWORKS

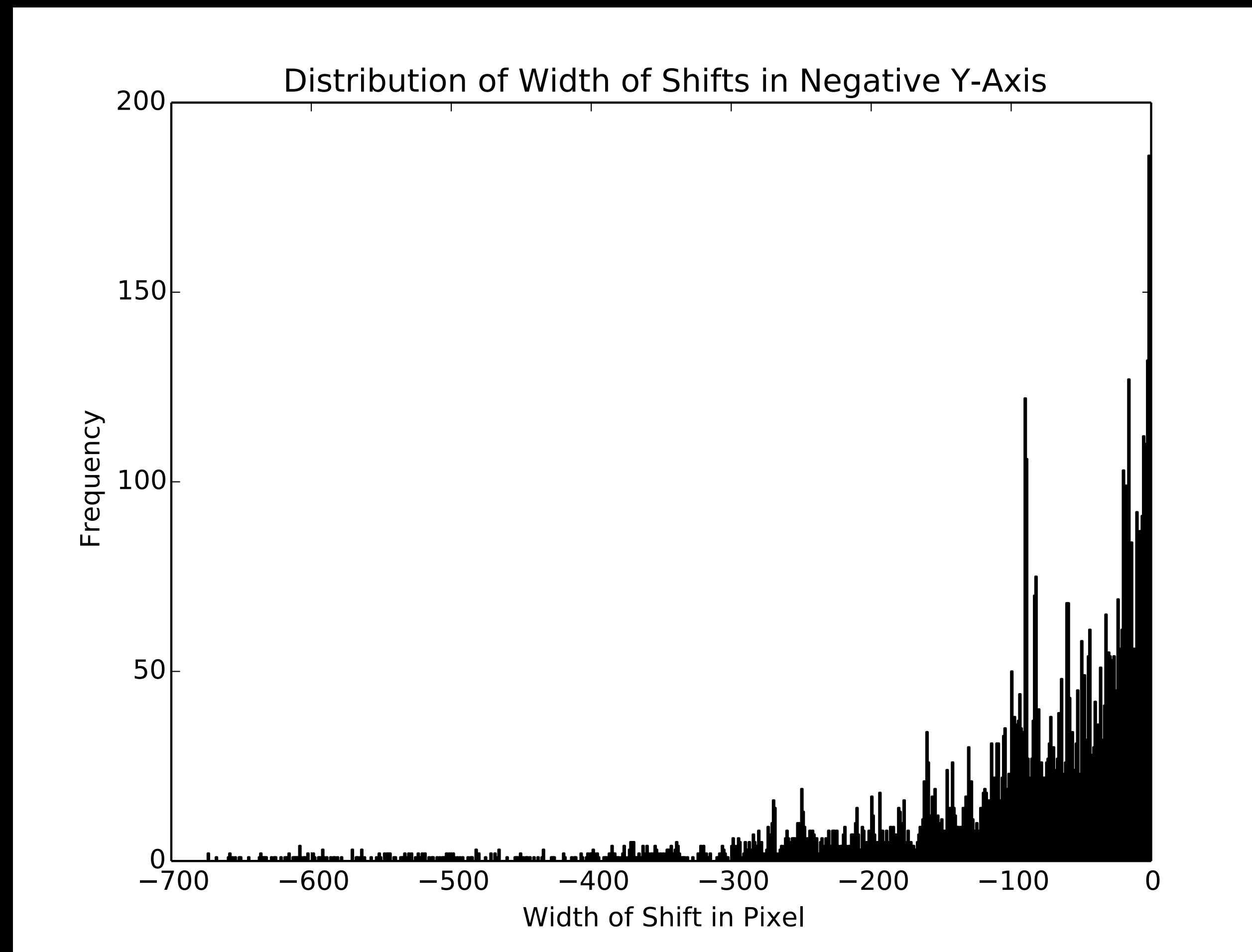
ANALYSE DER VERSCHIEBUNGEN NACH OBEN



- ▶ Zusammenhang zwischen Verschiebung und fehlendem Element ?

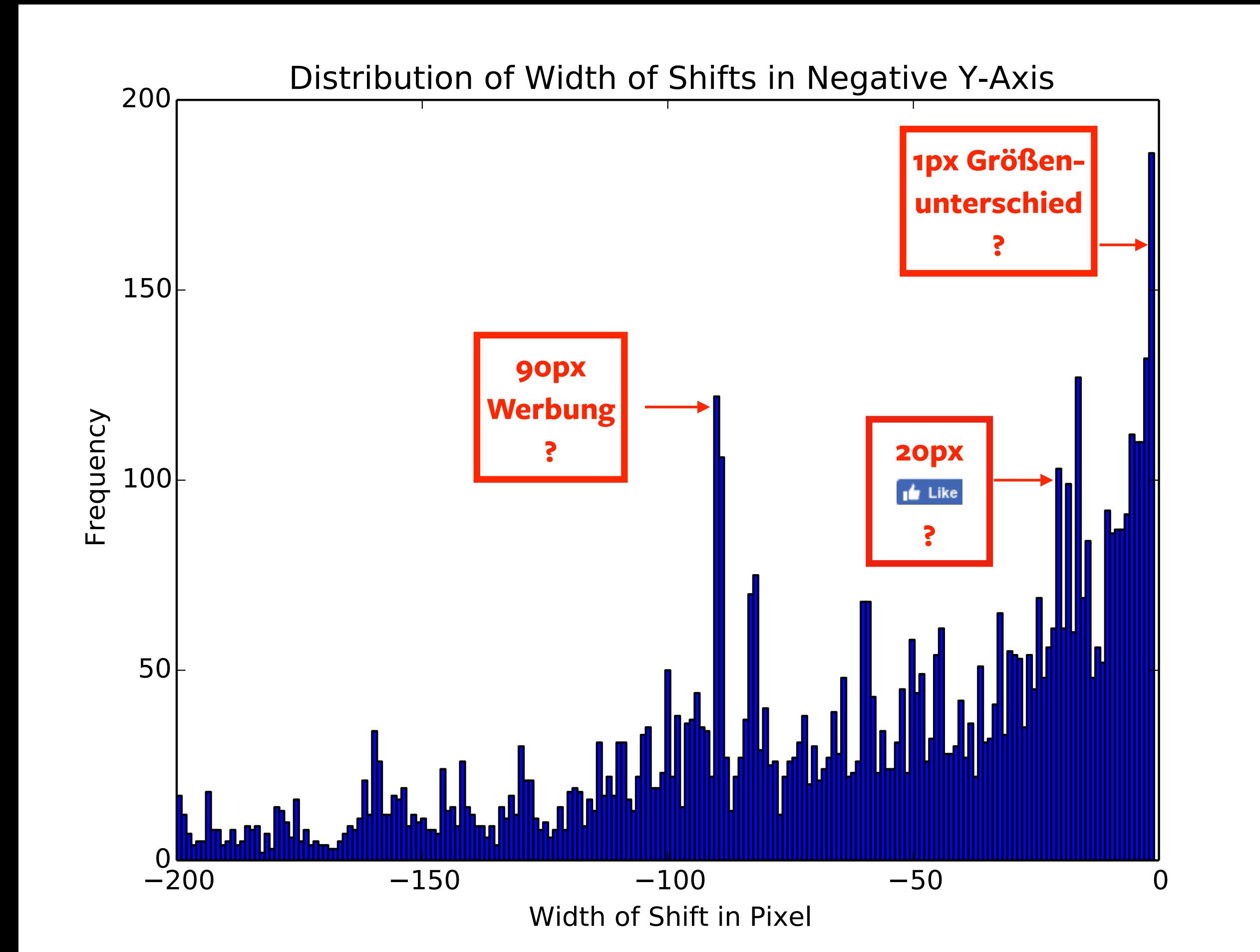
UMSETZUNG DES FRAMEWORKS

ANALYSE DER VERSCHIEBUNGEN NACH OBEN: VERSCHIEBUNGSWEITEN



UMSETZUNG DES FRAMEWORKS

ANALYSE DER VERSCHIEBUNGEN NACH OBEN: VERSCHIEBUNGSWEITEN



OFFENE FRAGEN

- ▶ weiter mit:
 - ▶ Suchen fehlender Elemente mit bestimmter Größe
 - ▶ Lineare Regression mit Human Annotations
 - ▶ neuer Threshold für Motionvektoren
 - ▶ anderer Codec, z.B. H.265 statt H.264
 - ▶ ...

ZUSAMMENFASSUNG

- ▶ verschiedene **Fehlertypen**
- ▶ Grenzen automatischer Fehlerbehebung:
1.Fehler korrekt kategorisieren => 2. Elemente korrekt zuordnen
- ▶ angepasste Edit-Distanz als **Fehlermaß**
- ▶ **Framework** zur Entwicklung automatischer Qualitätsbewertung von Webarchiven
 - ▶ Rekonstruktion des Originalbildes, Vergleich, Korrelation
- ▶ Versuch: **Verschiebungsfehler** durch Videokompression beheben
 - ▶ nebenbei: **Fehlende Elemente?**
 - ▶ Problem: Lücken korrespondieren nicht mit fehlendem Element
 - ▶ anderer Ansatz: Verschiebungsweite als Indiz für Größe eines fehlenden Elements

QUELLEN

- ▶ The Internet Archive. Wayback machine. <https://webarchive.org>
- ▶ Johannes Kiesel, Florian Kneist, Milad Alshomary, Benno Stein, Matthias Hagen, and Martin Potthast. Reproducible Web Corpora: Interactive Archiving with Automatic Quality Assessment. *Journal of Data and Information Quality (JDIQ)*, 10(4):17:1–17:25, October 2018
- ▶ Vladimir Iosifovich Levenshtein. Binary codes capable of correcting deletions, insertions and reversals. *Soviet Physics Doklady*, 10(8):707–710, 1966. *Doklady Akademii Nauk SSSR*, V163 No4 845-848 1965