An Empirical Comparison of Web Page Segmentation Algorithms

ECIR 2021

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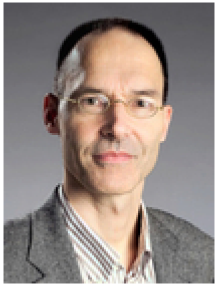
Lars Meyer[1]

Florian Kneist[1]



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Bauhaus-Universität Weimar [1]

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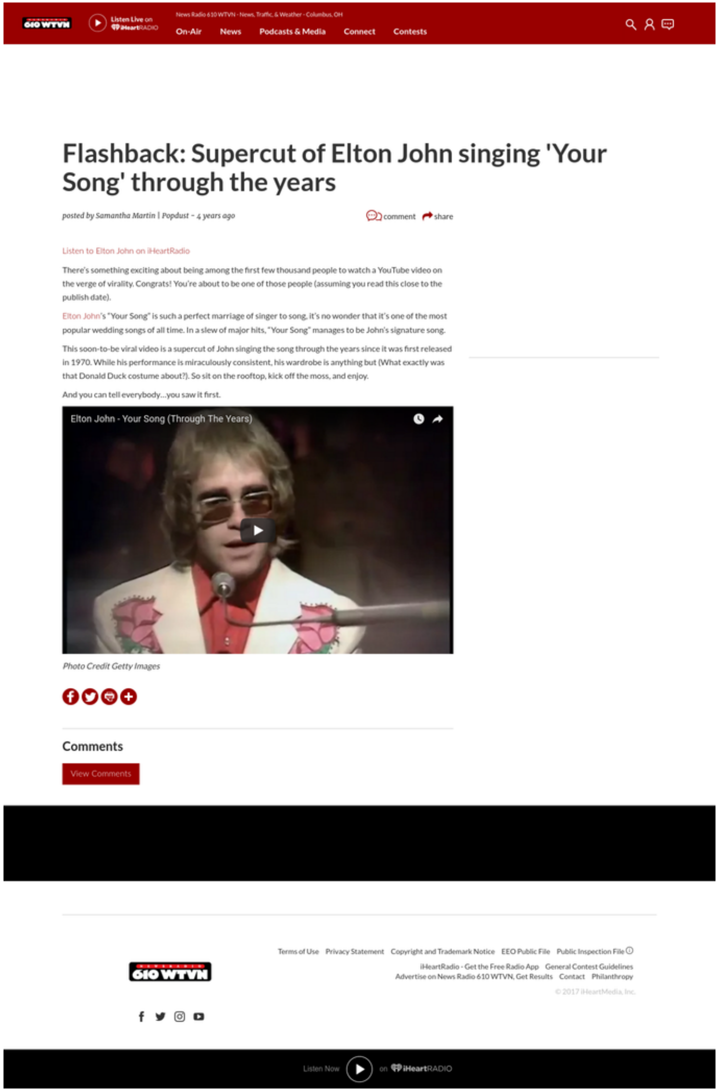

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Elton John - Your Song (Through The Years)

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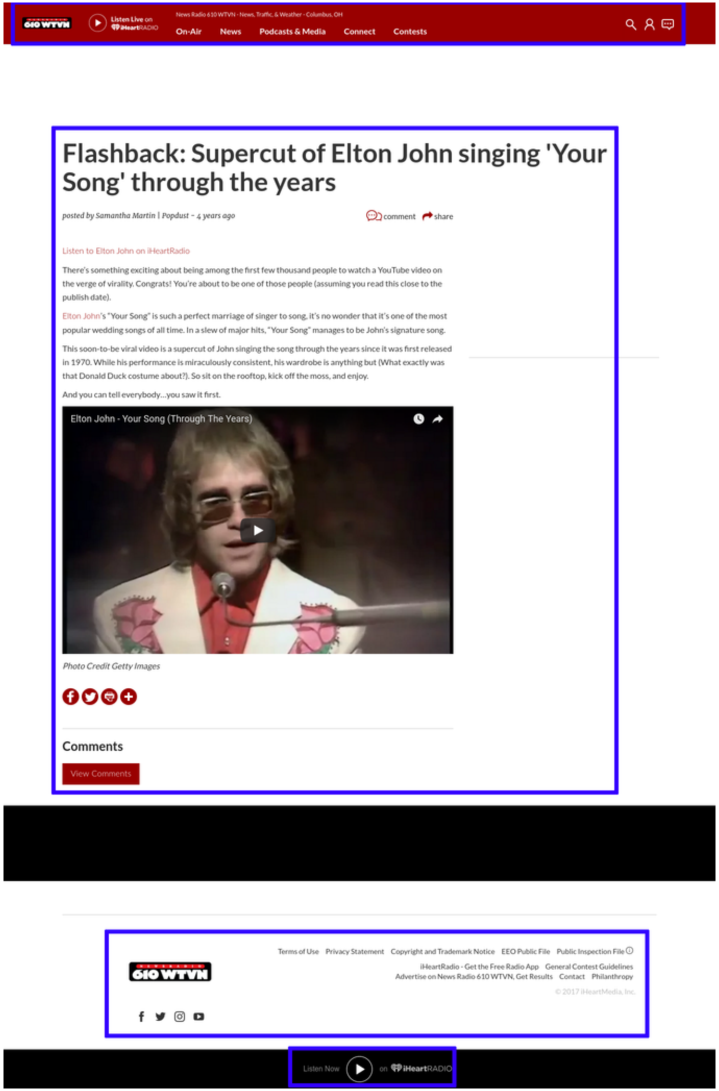

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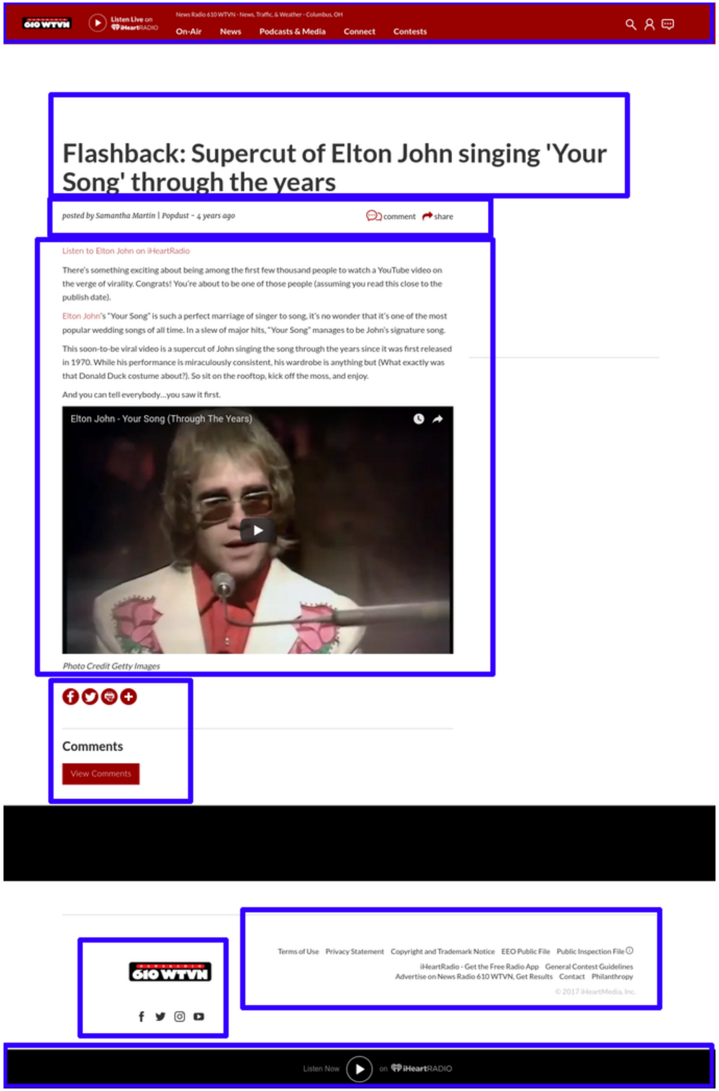
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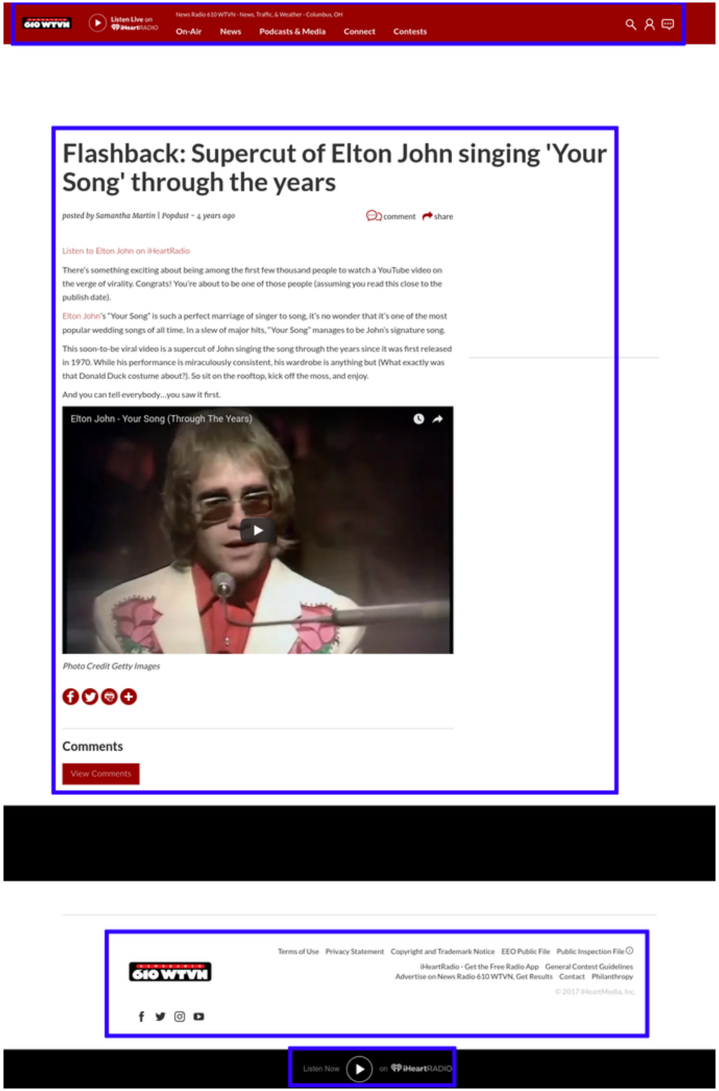
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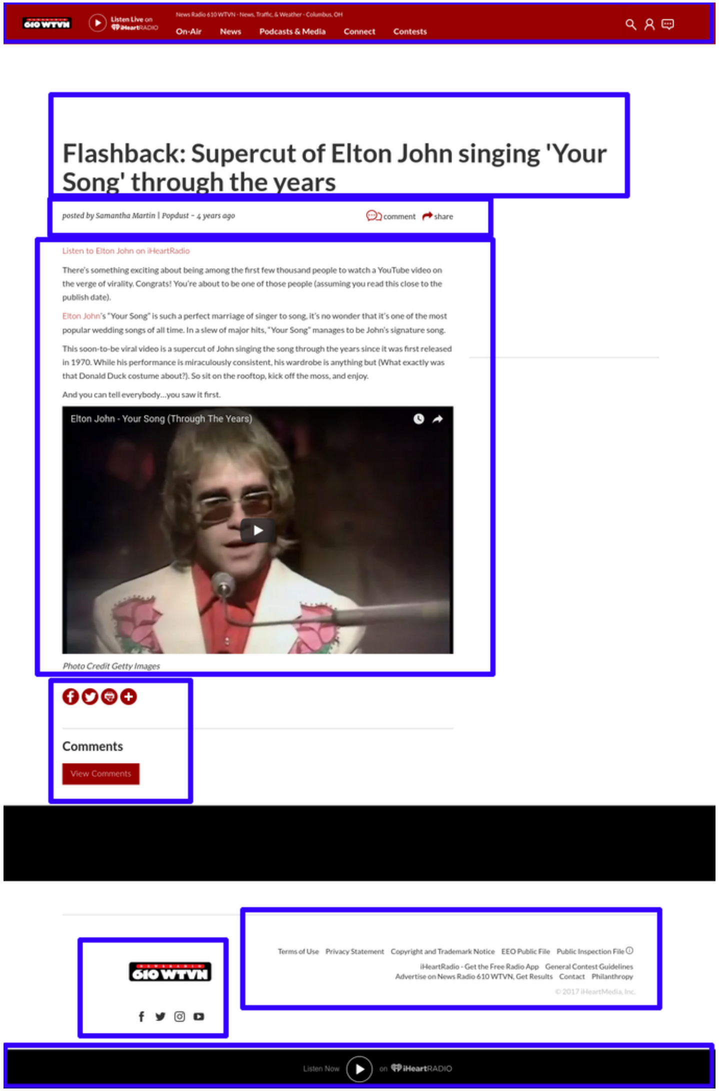

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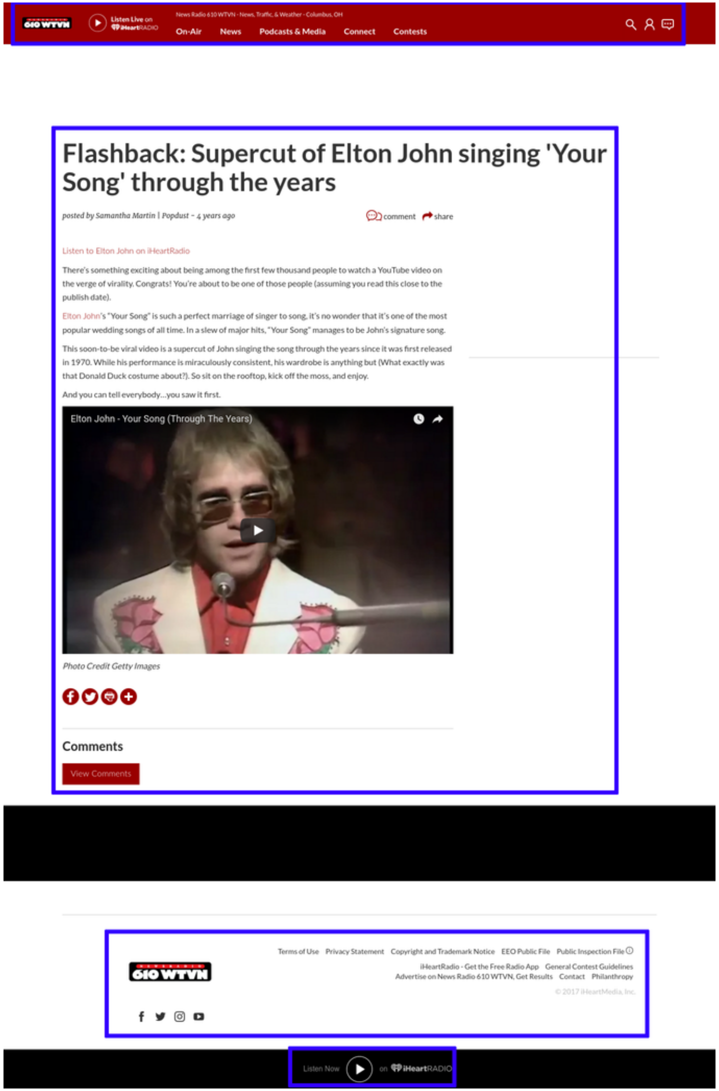

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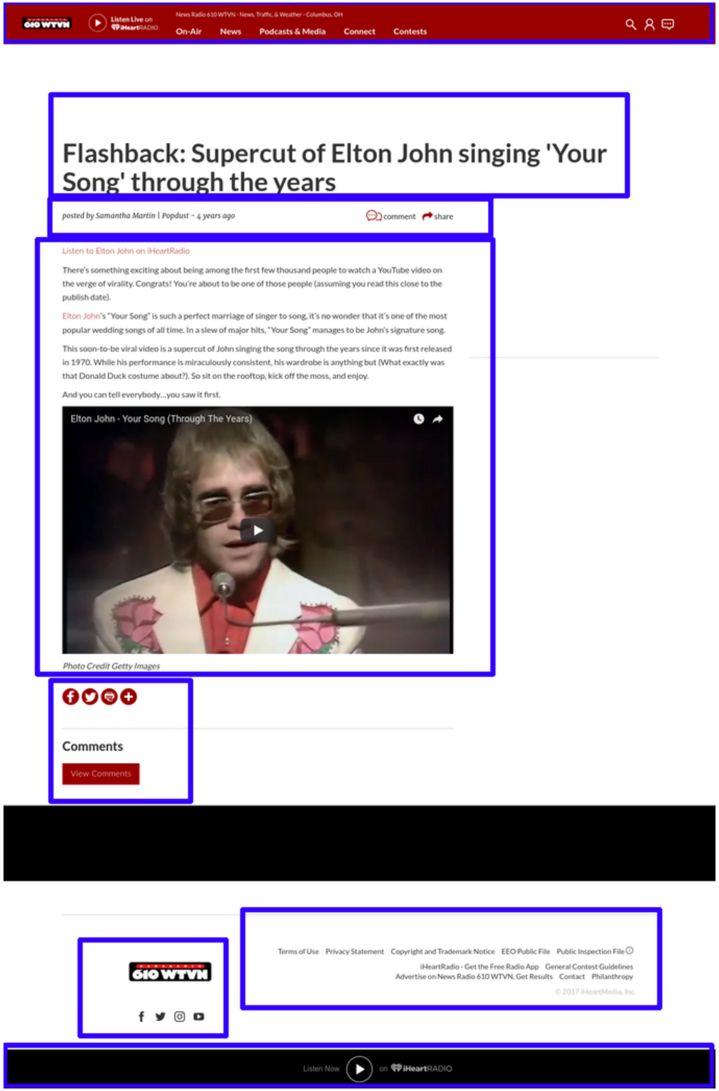

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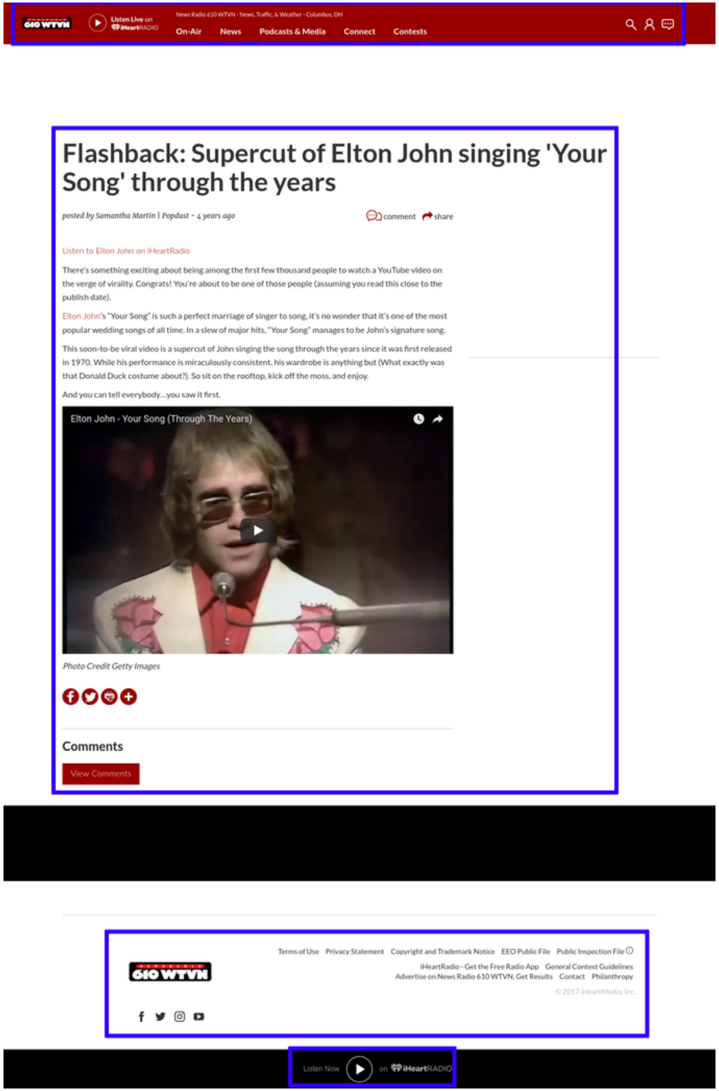

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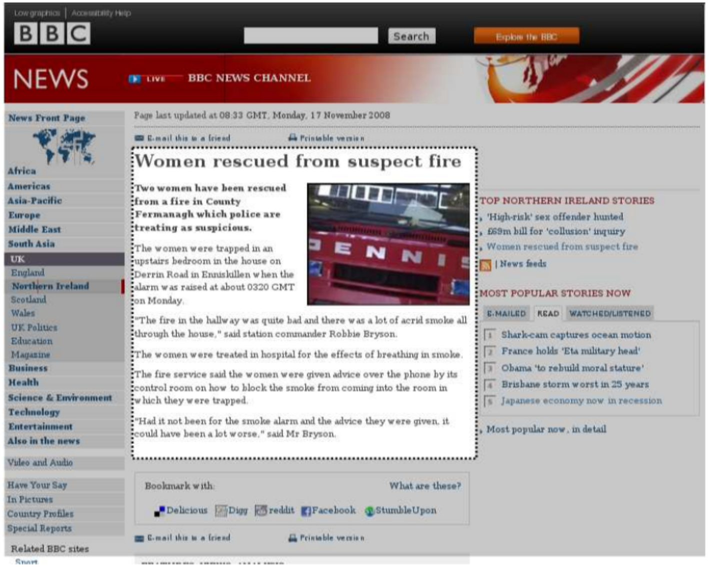

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Women rescued from suspect fire

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The women were trapped in an upstairs bedroom in the house on Derrin Road in Enniskillen when the alarm was raised at about 0320 GMT on Monday.

"The fire in the hallway was quite bad and there was a lot of acrid smoke all through the house," said station commander Robbie Bryson.

The women were treated in hospital for the effects of breathing in smoke.

The fire service said the women were given advice over the phone by its control room on how to block the smoke from coming into the room in which they were trapped.

"Had it not been for the smoke alarm and the advice they were given, it could have been a lot worse," said Mr Bryson.

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Image: *Language Independent Content Extraction from Web Pages.* Javier et al., DIR'09.

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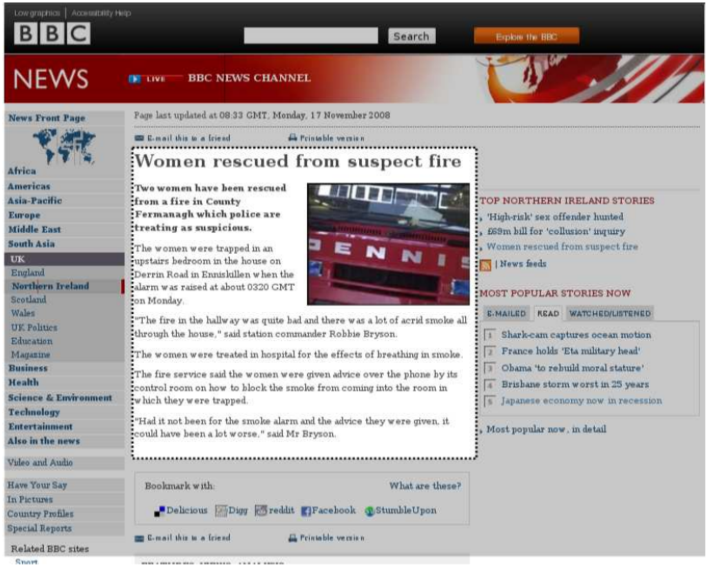

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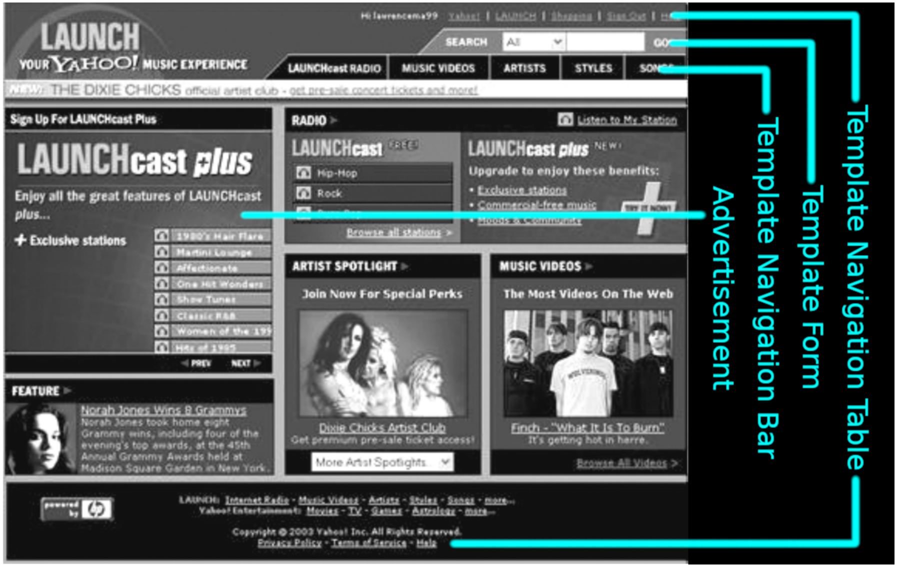

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Norah Jones Wins 8 Grammys

Norah Jones took home eight Grammy wins, including four of the evening's top awards, at the 45th Annual Grammy Awards held at Madison Square Garden in New York.

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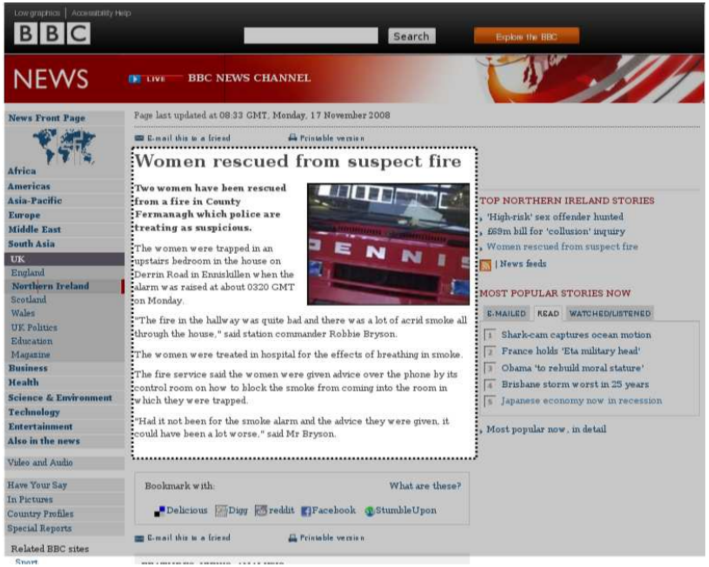

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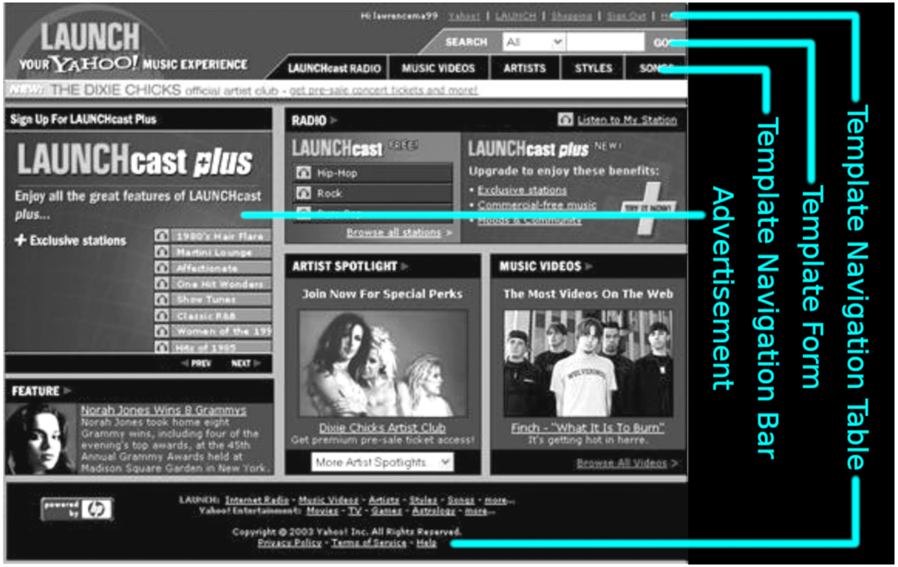

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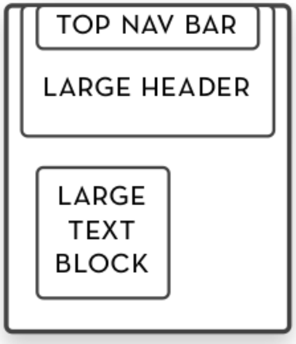

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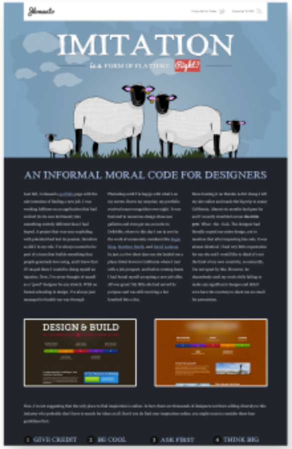
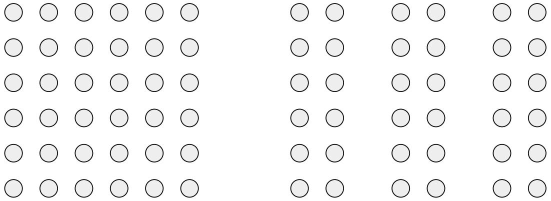


Concept Formation: Web Page Segment

A web page segment is a part of a web page containing those elements that belong together as per agreement among a majority of viewers.

Rationale: Web pages are created for human viewers, and so are segments

Gestalt Principles provide common ground



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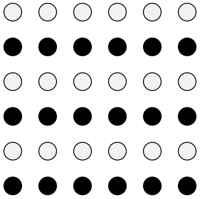

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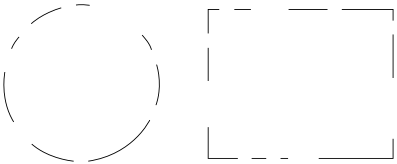

Closure

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Symmetry

Evaluation Framework for Web Page Segmentation

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Elements $E = \{e_1, \ldots, e_n\}$

Segmentation $S = \{s_1, \ldots, s_m\}$ with segments $s_i \subseteq E$

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Suggested sets of elements:

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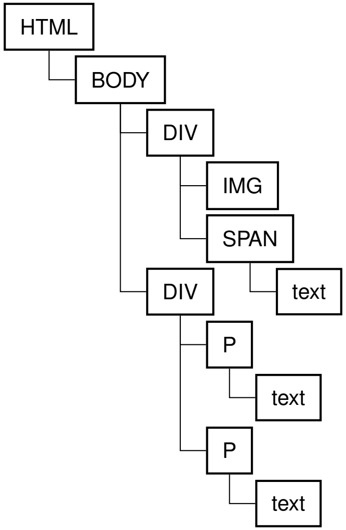
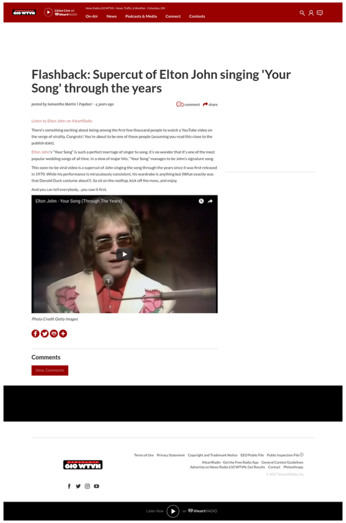
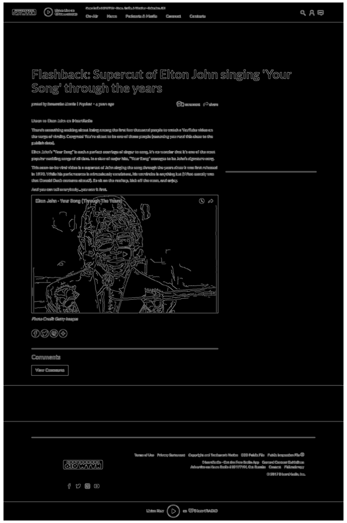


DOM nodes


Flashback: Supercut of Elton John singing 'Your Song' through the years
Comments

Pixels


Flashback: Supercut of Elton John singing 'Your Song' through the years

Edges

Evaluation Framework for Web Page Segmentation

A web page segment is a part of a web page containing those elements that belong together as per agreement among a majority of viewers.

Elements $E = \{e_1, \ldots, e_n\}$

Segmentation $S = \{s_1, \ldots, s_m\}$ with segments $s_i \subseteq E$

Precision

$$P_{B^3}(S, S^*) = \text{avg}_e \left(\frac{|\text{elements in same segment as } e \text{ in both } S \text{ and } S^*|}{|\text{elements in same segment as } e \text{ in } S|} \right)$$

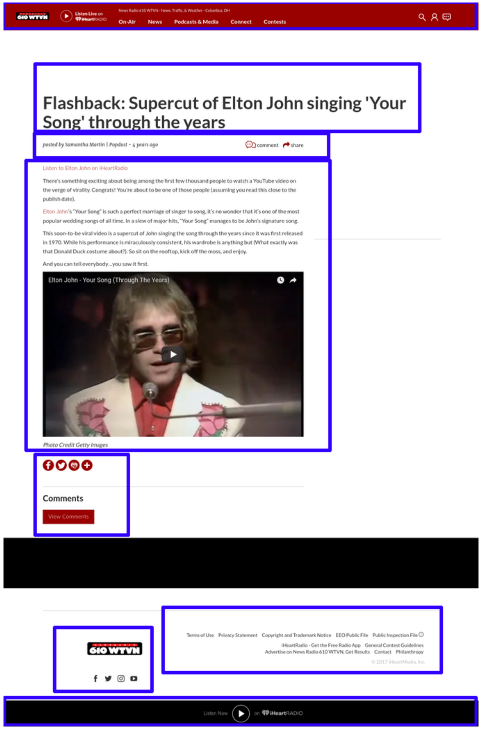
Recall

$$R_{B^3}(S, S^*) = \text{avg}_e \left(\frac{|\text{elements in same segment as } e \text{ in both } S \text{ and } S^*|}{|\text{elements in same segment as } e \text{ in } S^*|} \right)$$

F-Measure, F_{B^3}, is defined as the harmonic mean of precision and recall as usual

Note: $P_{B^3}(S, S') = R_{B^3}(S', S) \quad \Rightarrow \quad F_{B^3}(S, S') = F_{B^3}(S', S)$

Evaluation Framework for Web Page Segmentation



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And you can tell everybody...you saw it first.

Elton John - Your Song (Through The Years)

Photo Credit Getty Images

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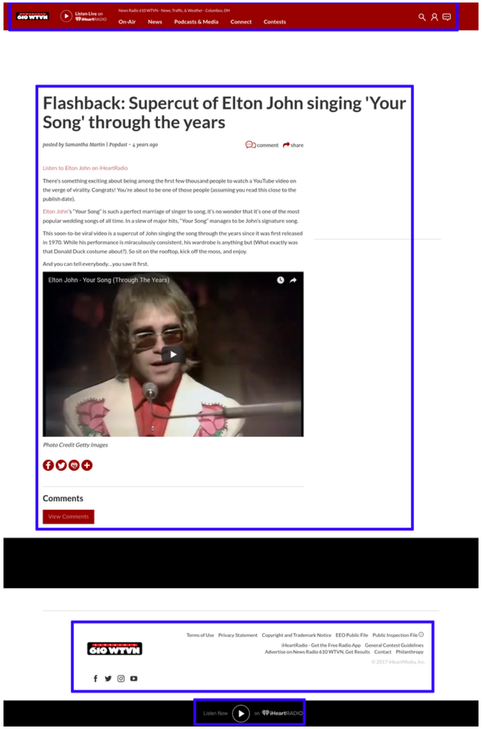

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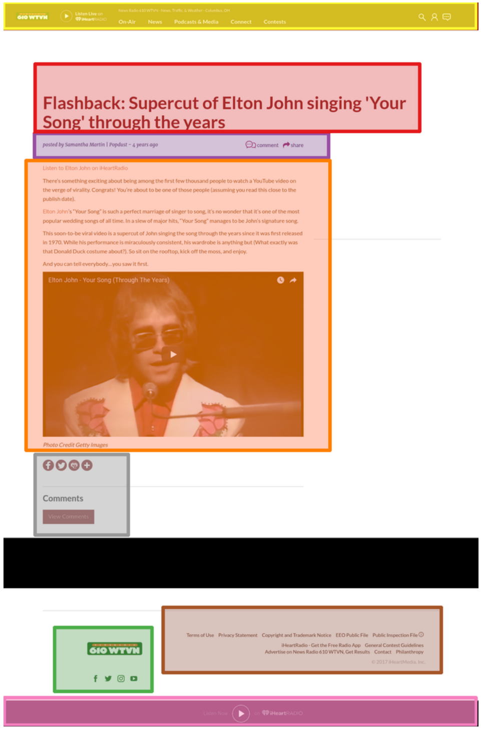

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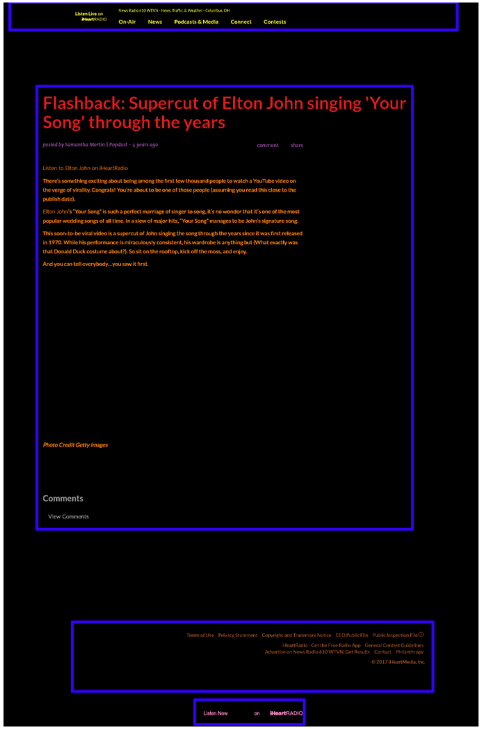

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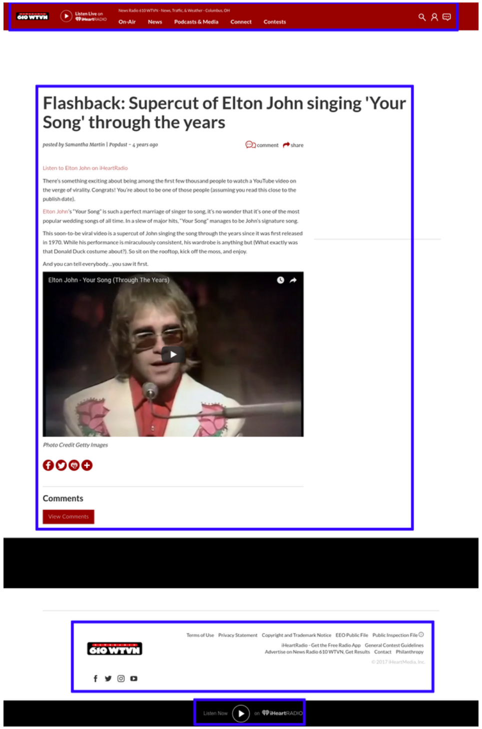
Characters of S in S^*

←



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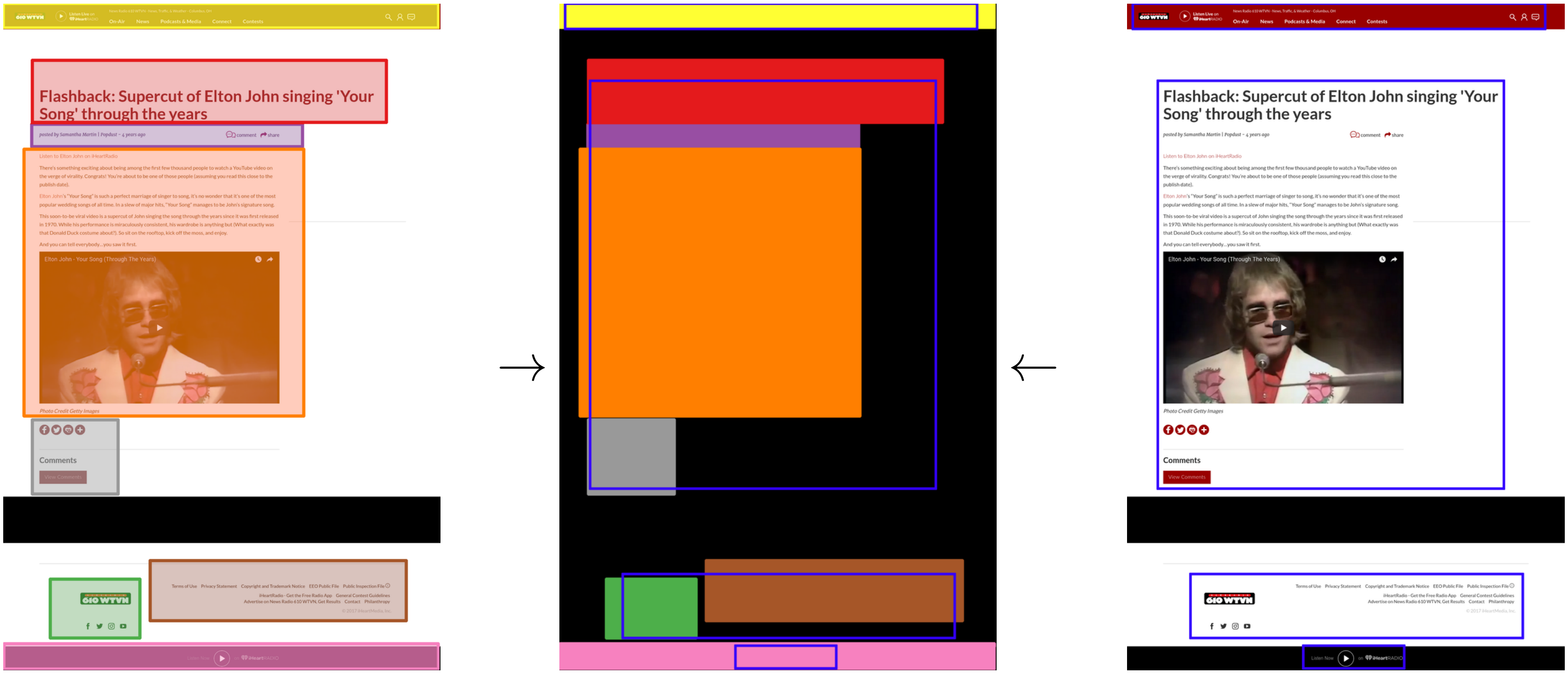

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S → Pixels of S in S^* ← S^*

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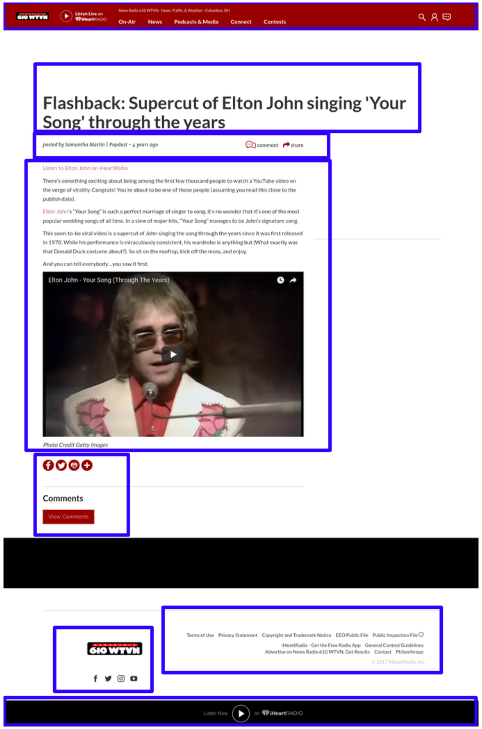

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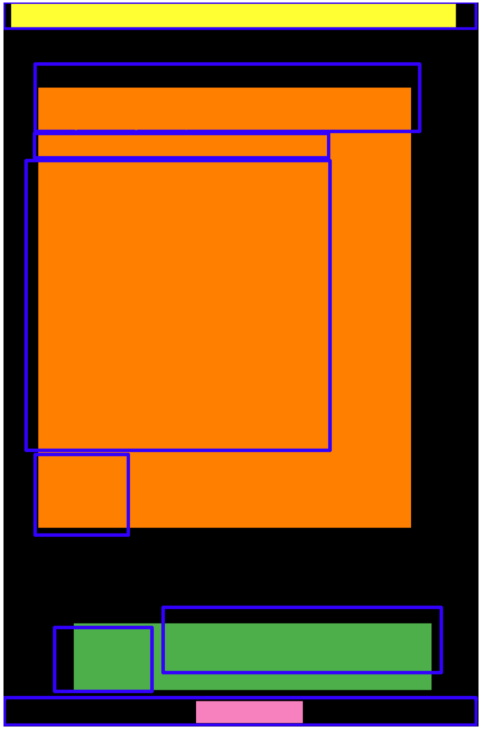
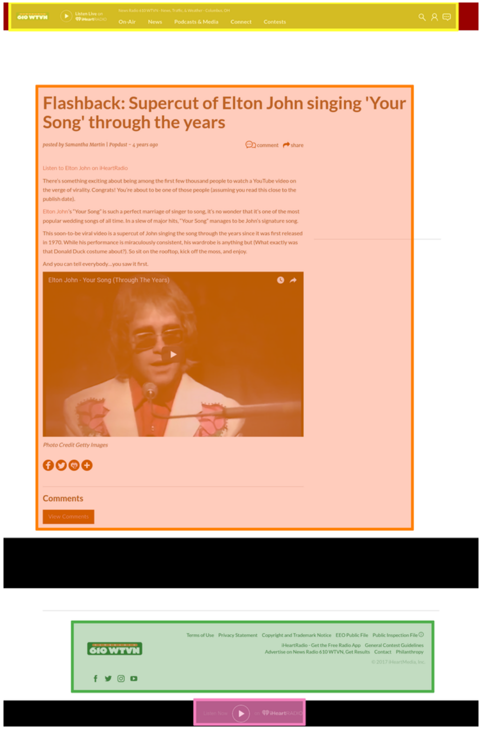


→ Pixels of S^* in S ←



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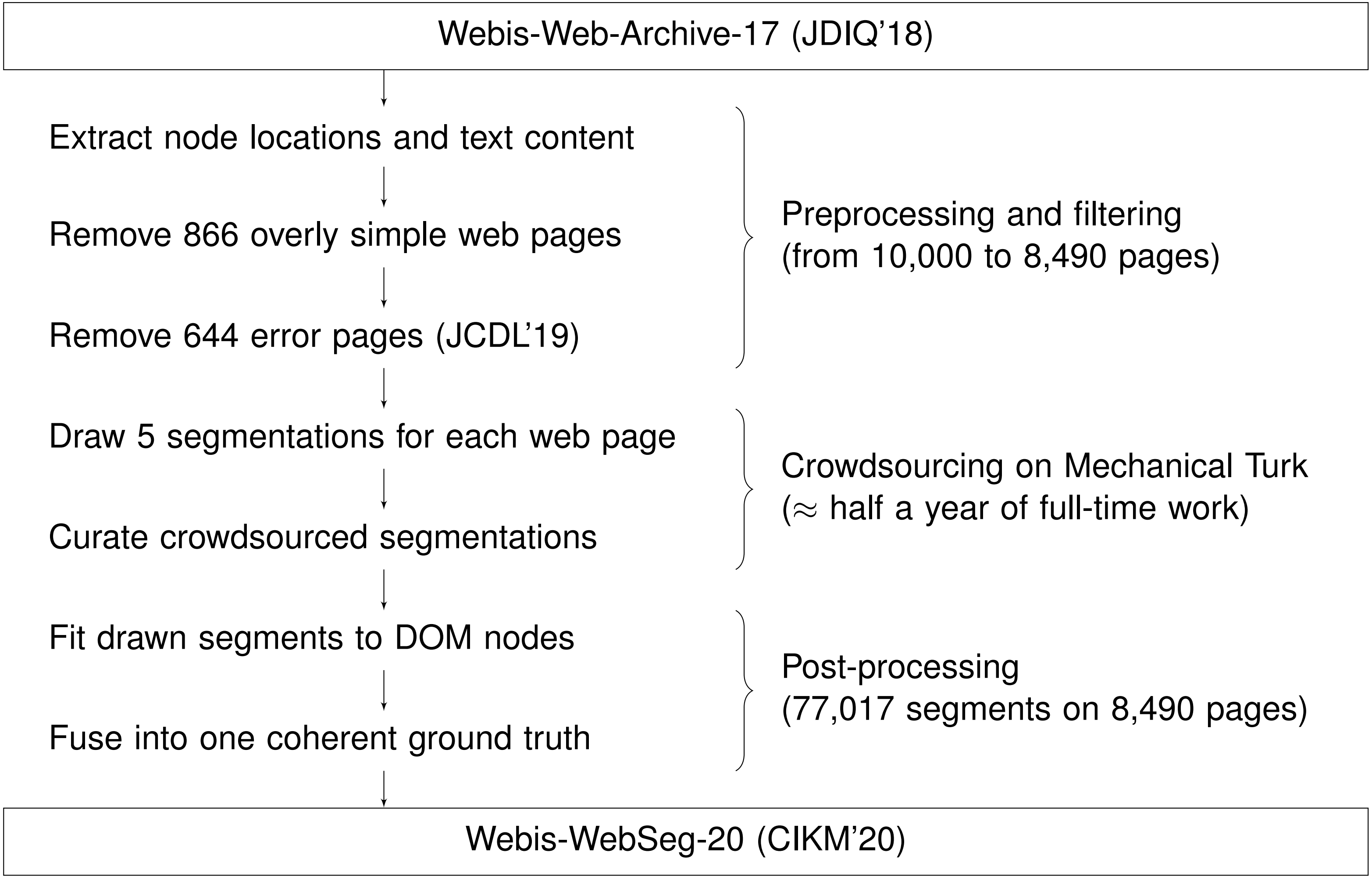

Webis-Web-Archive-17 (JDIQ'18)

Extract node locations and text content

Remove 866 overly simple web pages

Remove 644 error pages (JCDL'19)

Preprocessing and filtering
(from 10,000 to 8,490 pages)

Draw 5 segmentations for each web page

Curate crowdsourced segmentations

Crowdsourcing on Mechanical Turk
(≈ half a year of full-time work)

Fit drawn segments to DOM nodes

Fuse into one coherent ground truth

Post-processing
(77,017 segments on 8,490 pages)

Webis-WebSeg-20 (CIKM'20)

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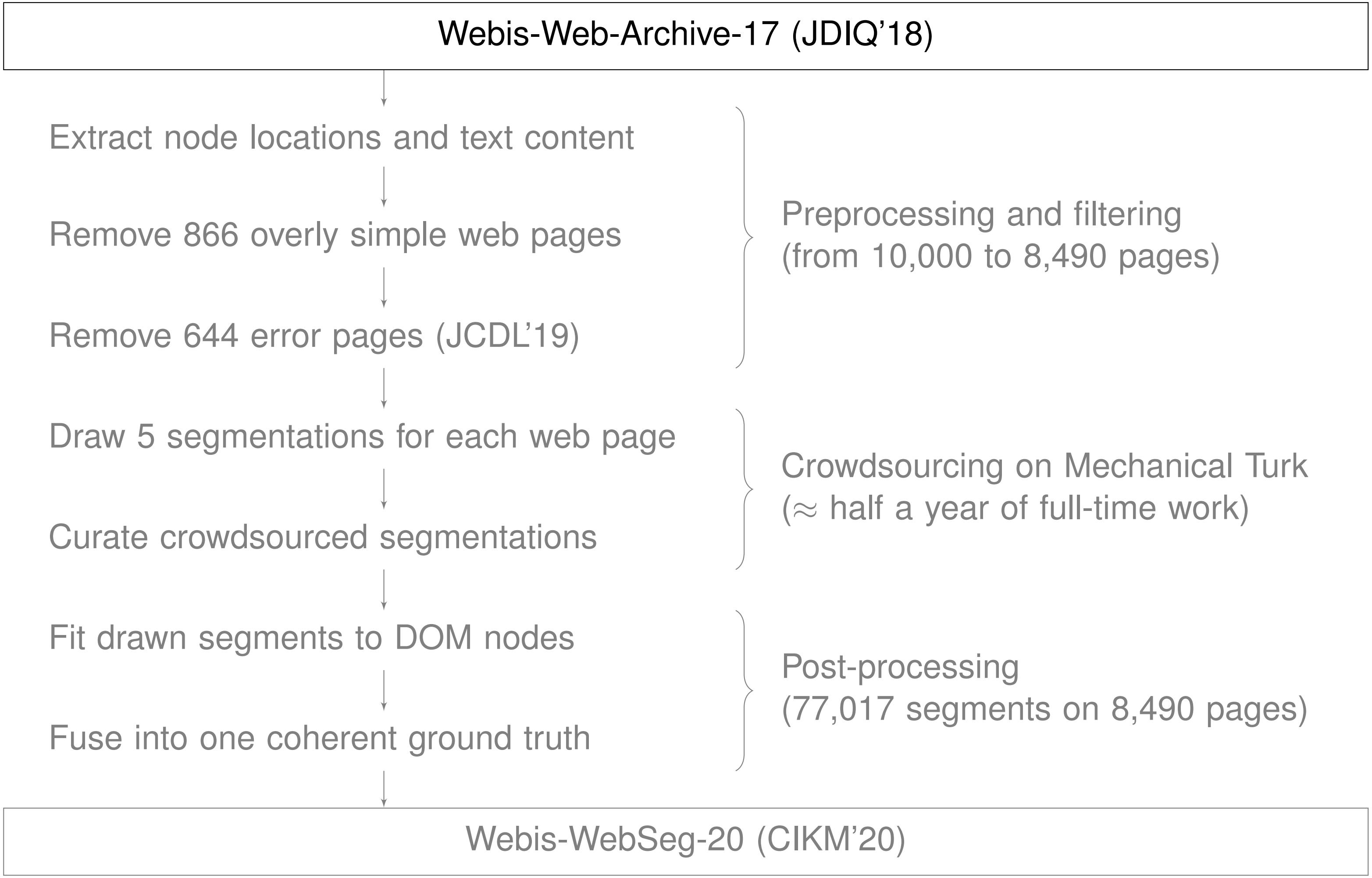

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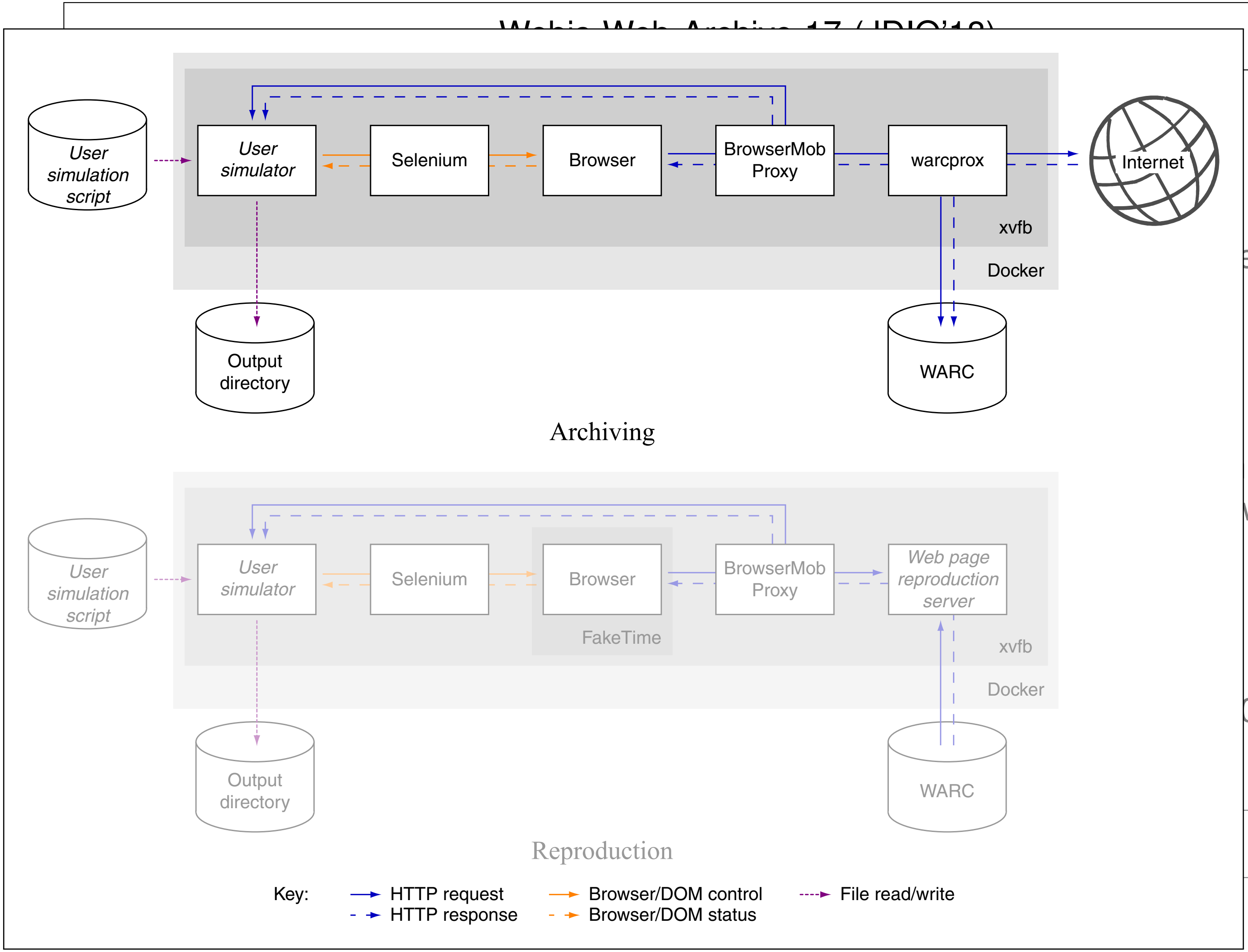

Archiving

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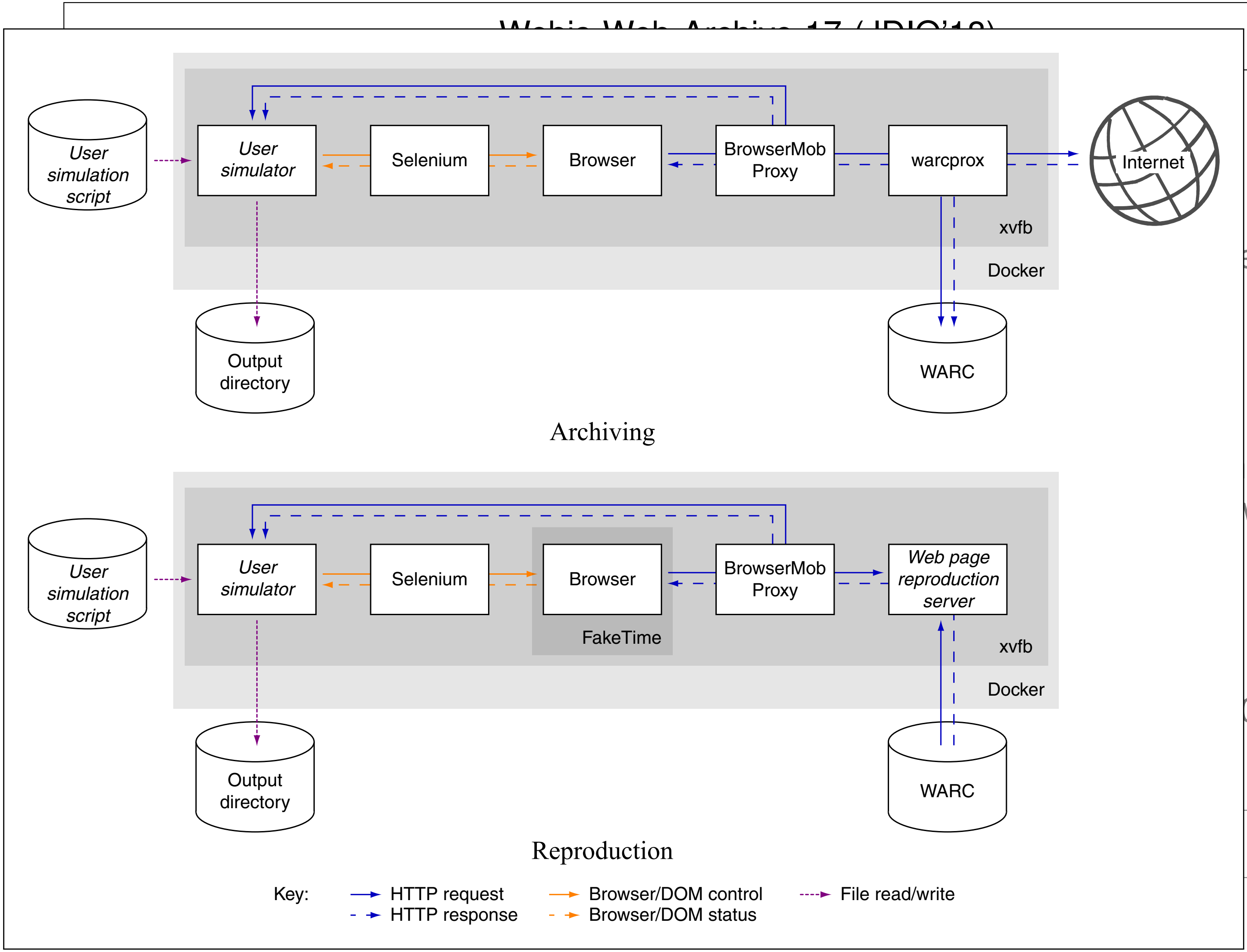

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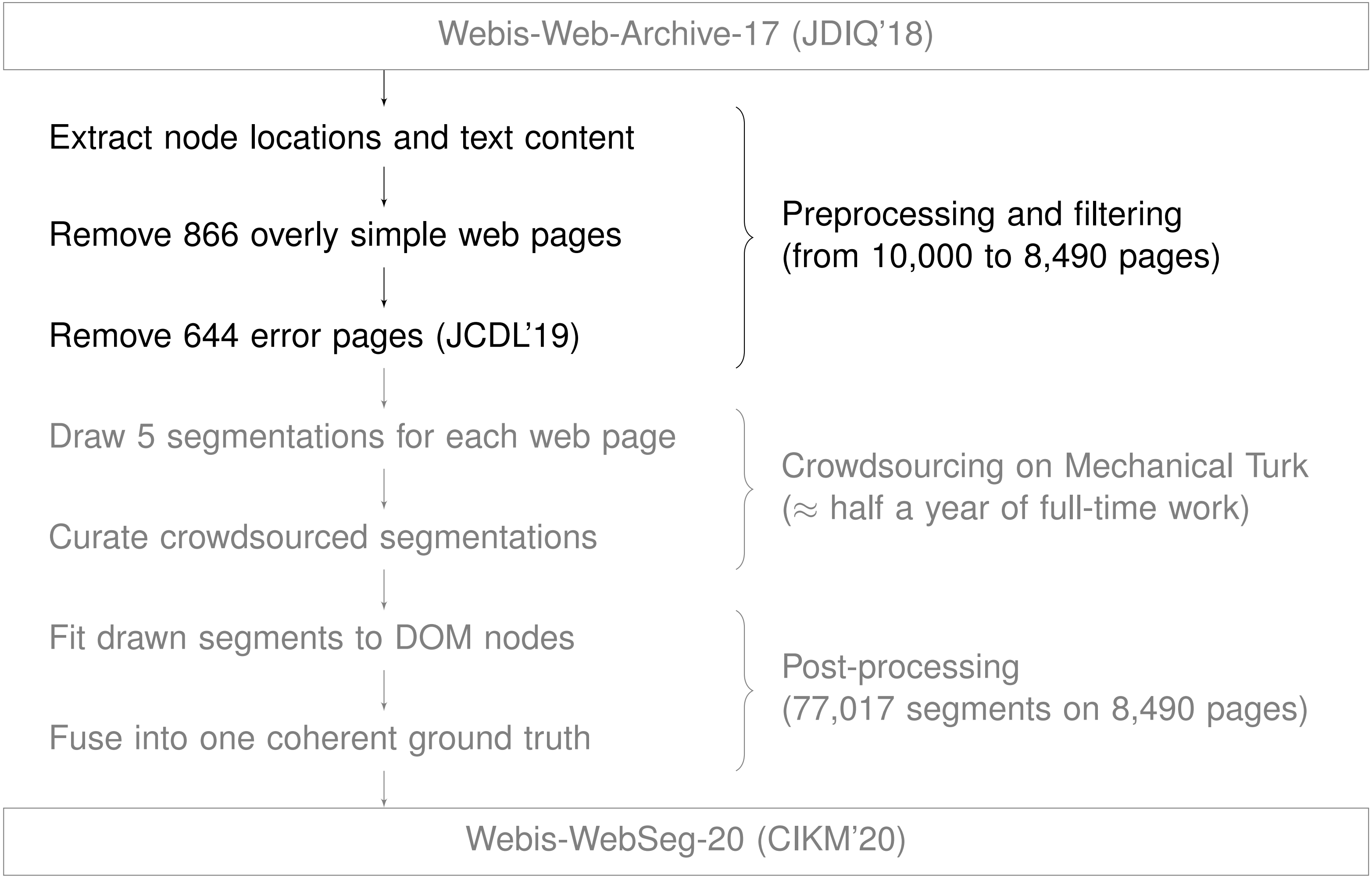

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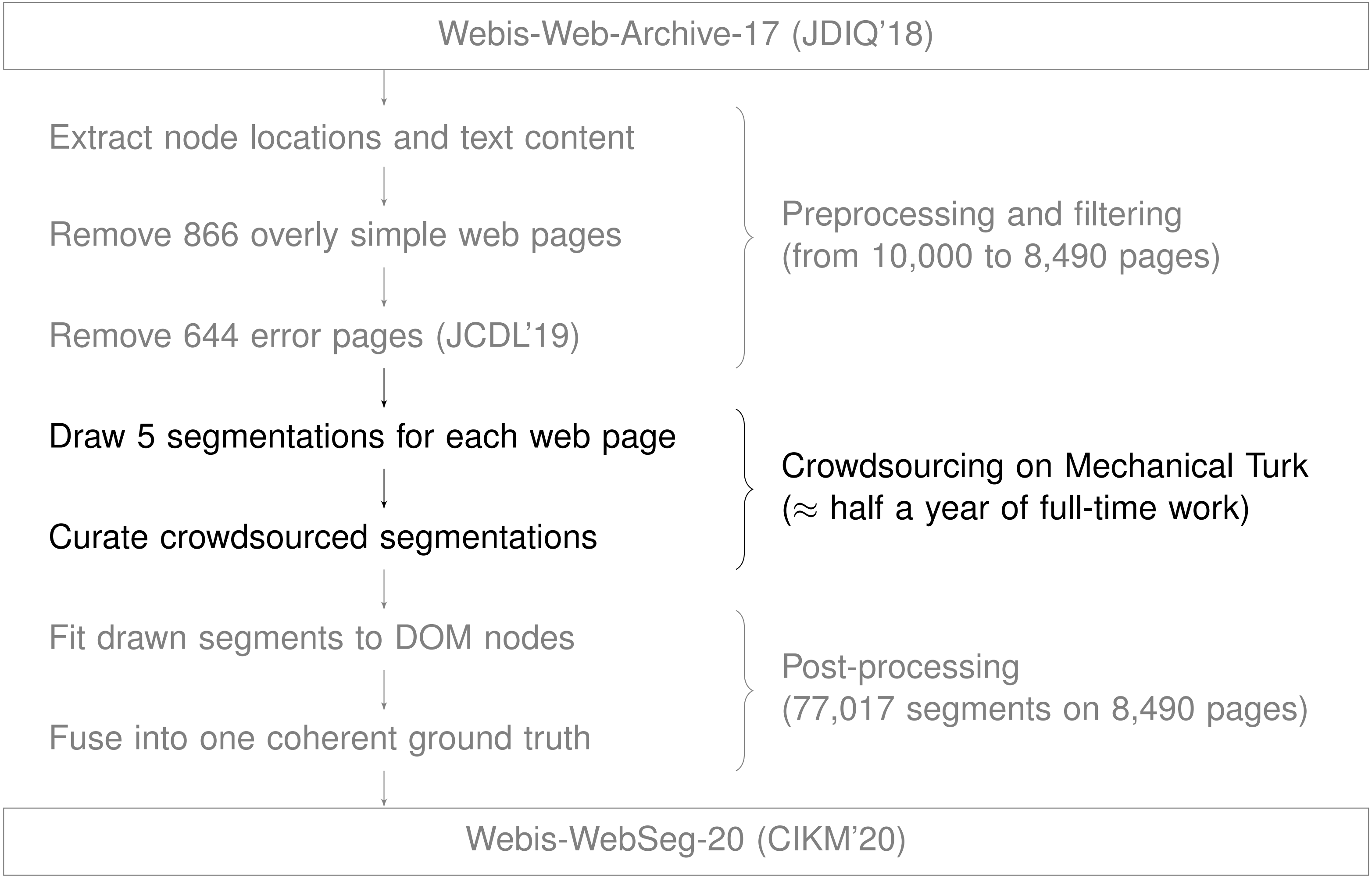

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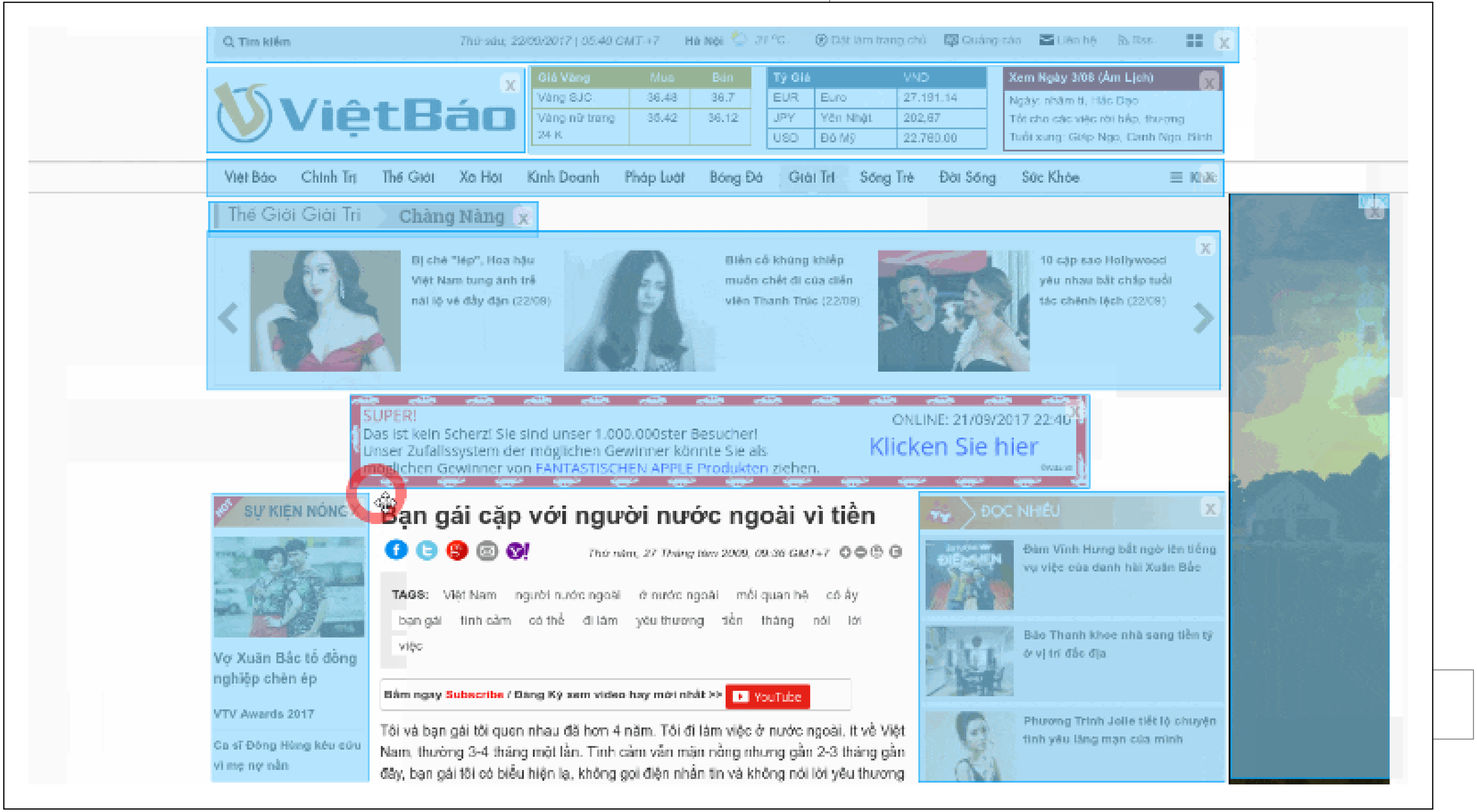

Giá Vàng	Mua	Bán
Vàng SJC	36.48	36.7
Vàng nữ trang 24 K	36.42	36.12

Tỷ Giá		VND
EUR	Euro	27.191.14
JPY	Yên Nhật	202,67
USD	Đô Mỹ	22.760.00

Xem Ngày 3/08 (Âm Lịch)

Ngày: nhâm tí, Hắc Đạo

Tốt cho các việc nói hấp, thương

Tuổi xung: Giáp Ngọ, Canh Ngọ, Bính

Bị chê "lép", Hoa hậu Việt Nam tung ảnh trễ nải lộ vẻ đầy đặn (22/08)

Biến cố khủng khiếp muốn chết đi của diễn viên Thanh Trúc (22/08)

10 cặp sao Hollywood yêu nhau bất chấp tuổi tác chênh lệch (22/08)

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Bạn gái cặp với người nước ngoài vì tiền

Thứ năm, 27 Tháng tám 2009, 09:36 GMT+7

TAGS: Việt Nam người nước ngoài ở nước ngoài mối quan hệ cô ấy bạn gái tình cảm có thể đi làm yêu thương tiền tháng nói lời việc

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Tôi và bạn gái tôi quen nhau đã hơn 4 năm. Tôi đi làm việc ở nước ngoài, ít về Việt Nam, thường 3-4 tháng một lần. Tình cảm vẫn mặn nồng nhưng gần 2-3 tháng gần đây, bạn gái tôi có biểu hiện lạ, không gọi điện nhắn tin và không nói lời yêu thương

Đàm Vĩnh Hưng bất ngờ lên tiếng vụ việc của danh hài Xuân Bắc

Bảo Thanh khoe nhà sang tiền tỷ ở vị trí đắc địa

Phương Trinh Jolie tiết lộ chuyện tình yêu lãng mạn của mình

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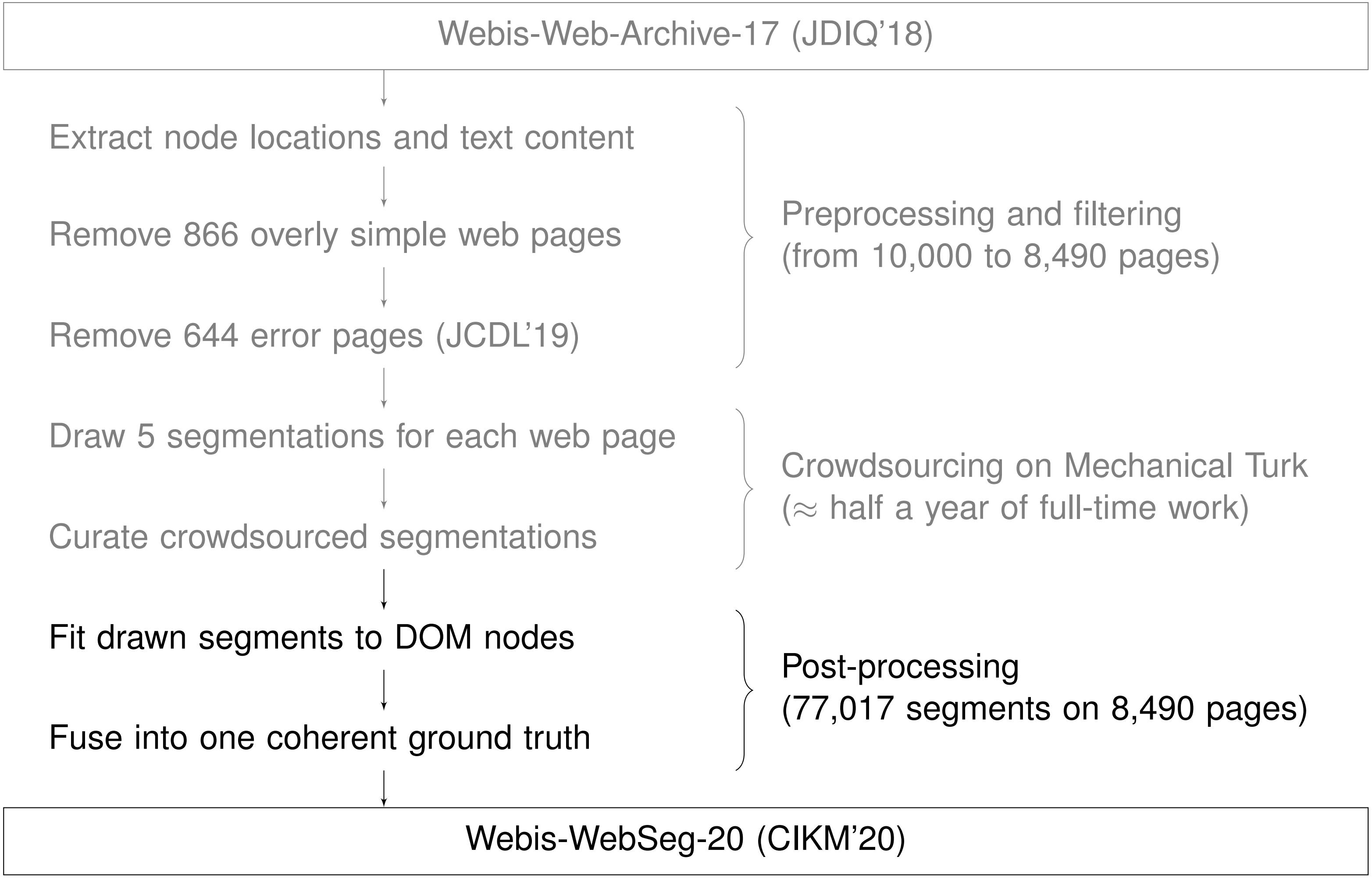

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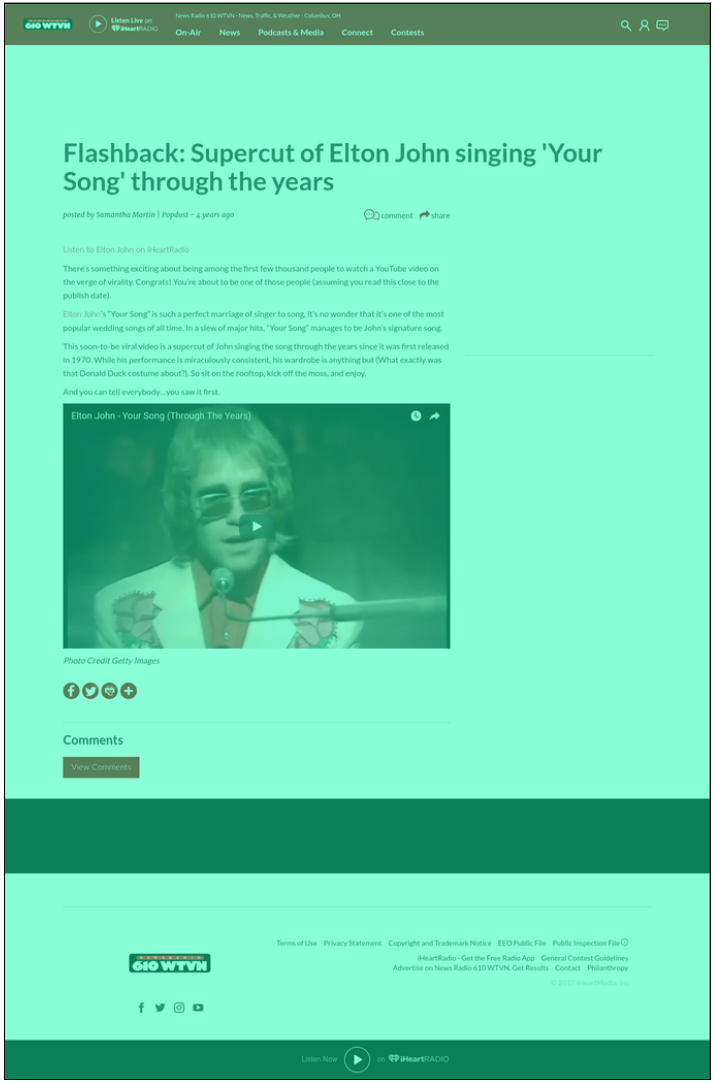
Algorithms

Name	Reference	Document	Features	Output
VIPS	Cai et al., 2003	Web page	Tree, style, location	Rectangle tree
HEPS	Manabe and Tajima, 2015	Web page	Tree, style	Node set
Cormier et al.	Cormier et al., 2017	Web page	Screenshot	Rectangle tree
MMDetection	Chen et al., 2019	Photo	Screenshot	Pixel masks
Meier et al.	Meier et al., 2017	Article page	Screenshot, text-mask	Mask

Baseline

- One segment that covers the whole page

- Always achieves a recall of 1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And you can tell everybody...you saw it first.

Photo Credit Getty Images

VIPS

“VIsion-based Page Segmentation algorithm” by Cai et al., 2003

- ❑ Starts with one segment that covers the whole page
- ❑ Computes the "degree of coherence" of each segment through heuristic rules
- ❑ Splits segments if their degree of coherence is less than the permitted degree (PDoC)

We re-implemented the algorithm to run in a modern browser

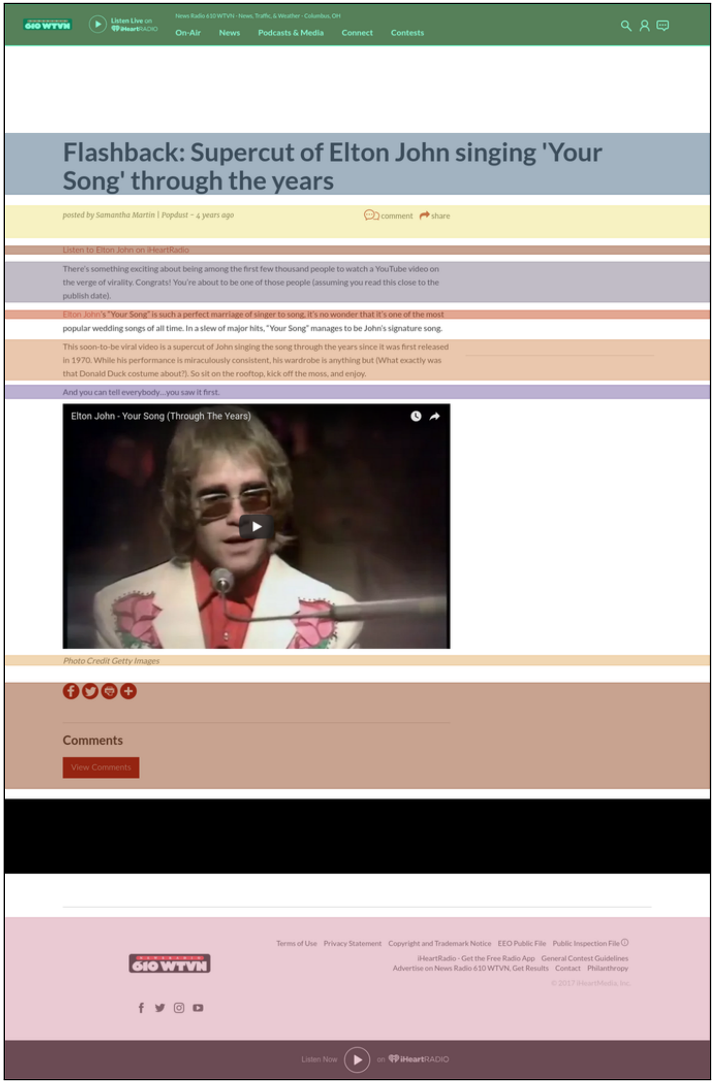
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Photo Credit Getty Images

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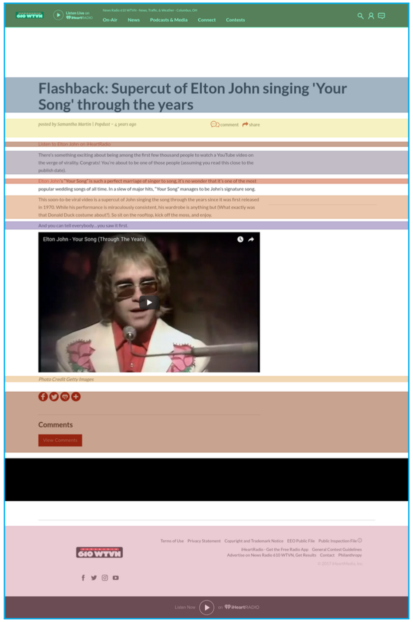

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PDoC $\in [1, 6]$

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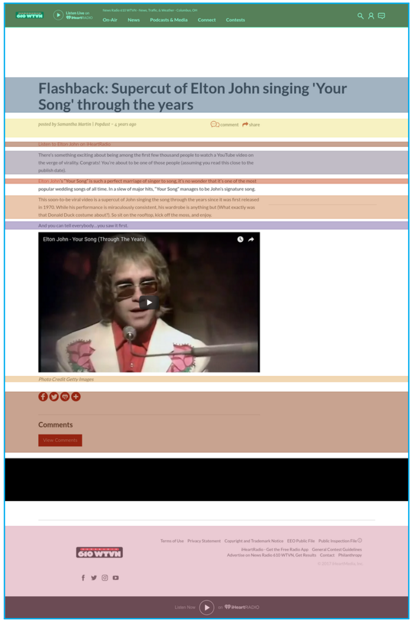

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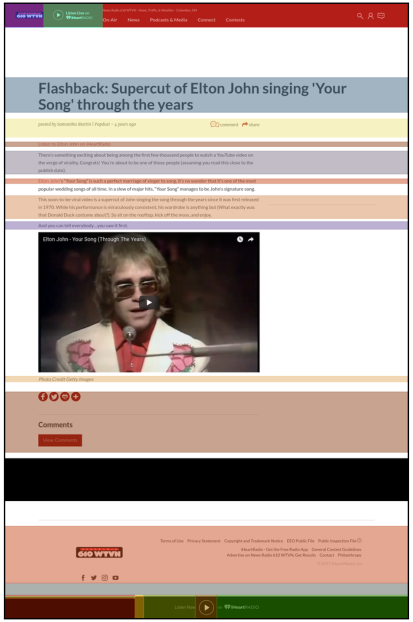

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PDoC $= 7$

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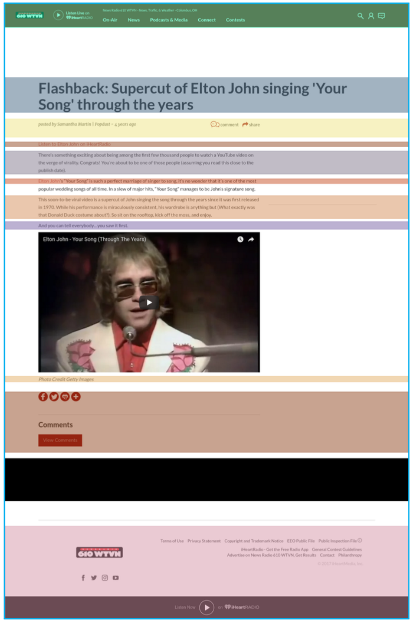
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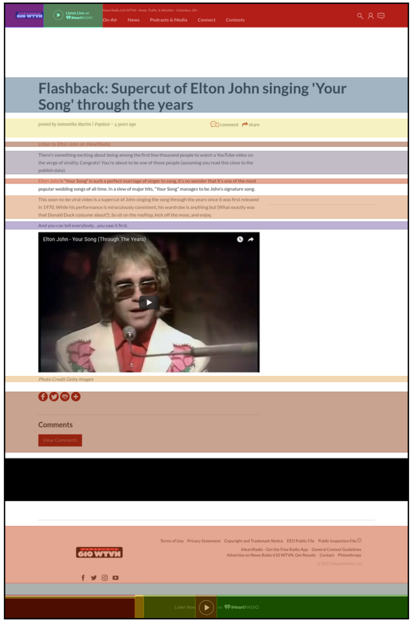
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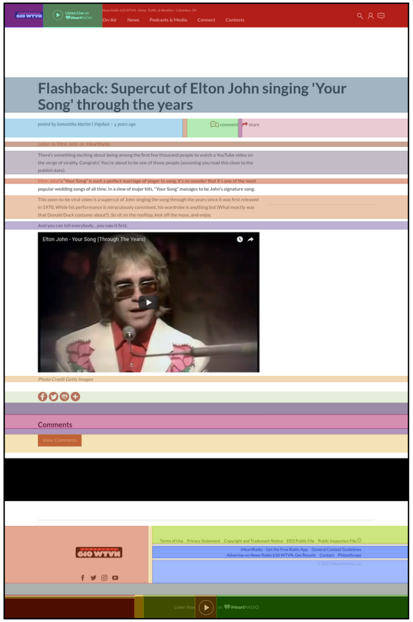
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PDoC $\in [8, 9]$

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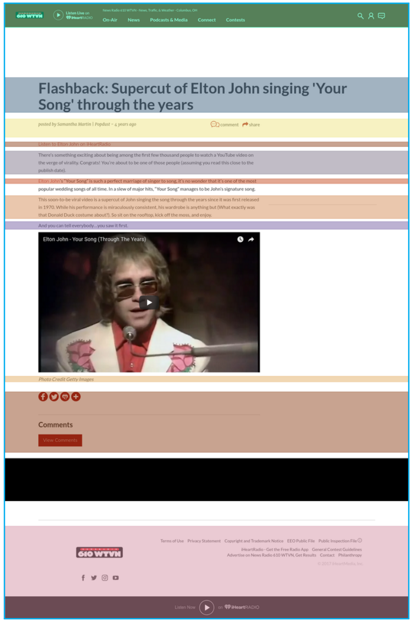

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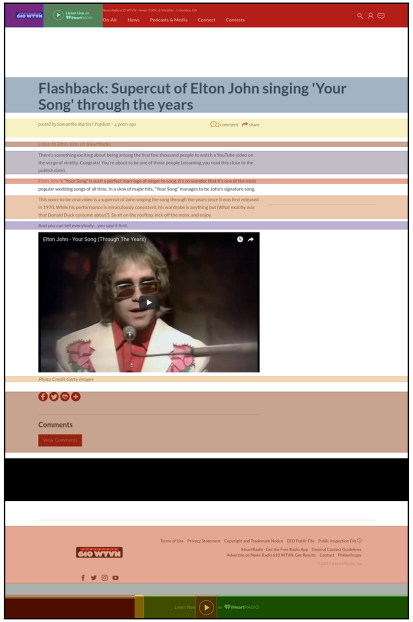

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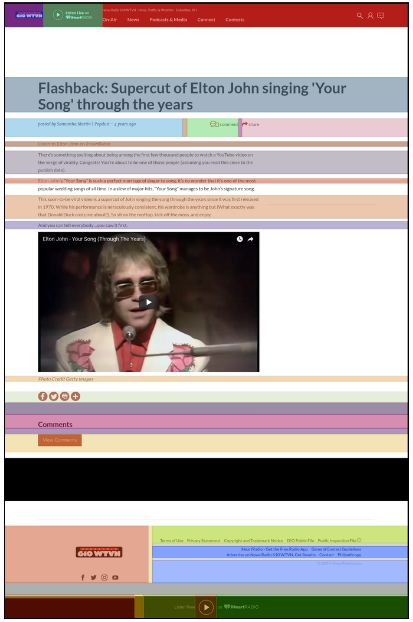

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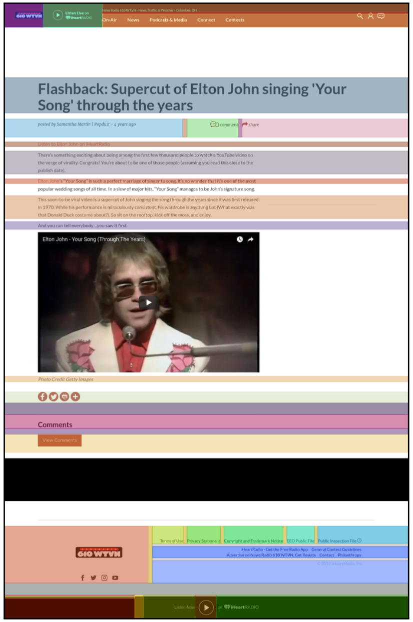
PDoC $\in [8,9]$



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PDoC $\in [10,11]$

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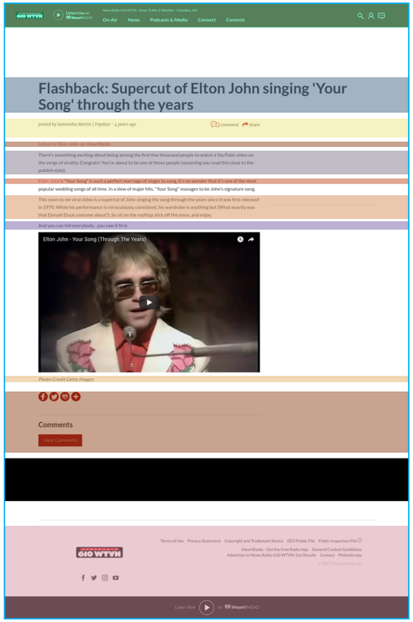
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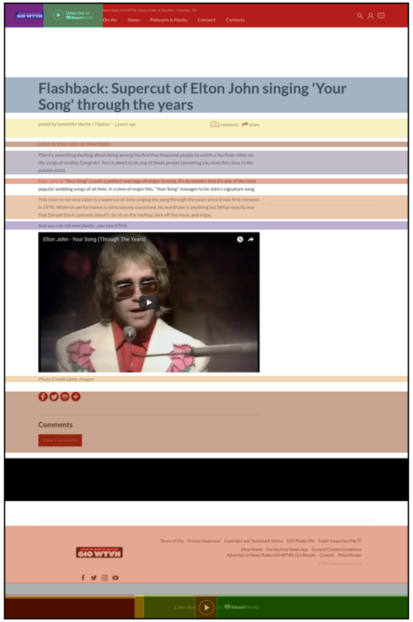
$\text{PDoC} \in [1, 6]$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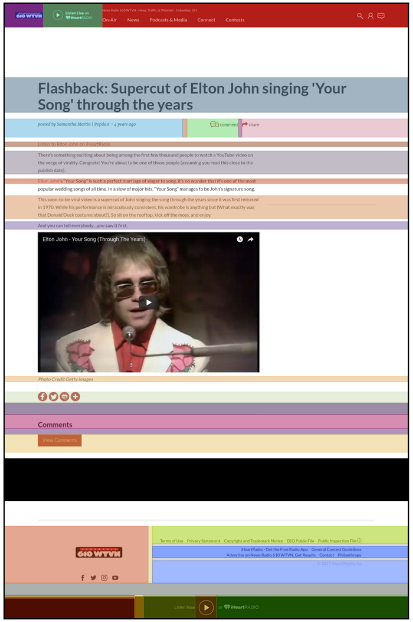
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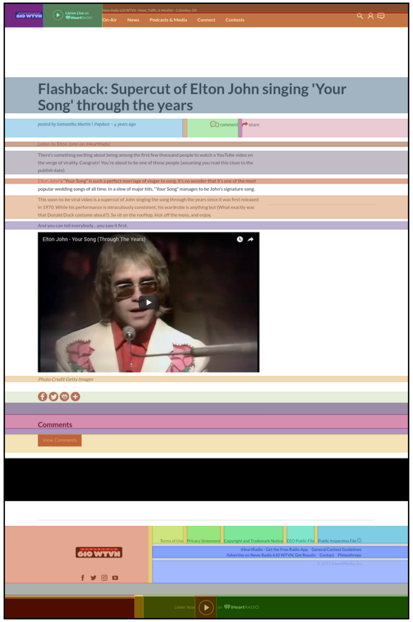
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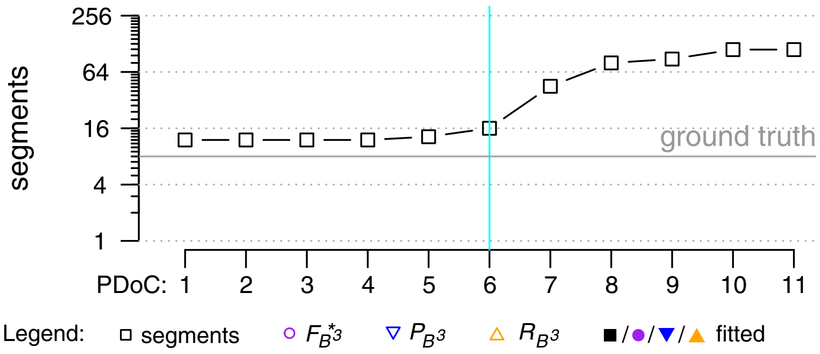
Number of segments



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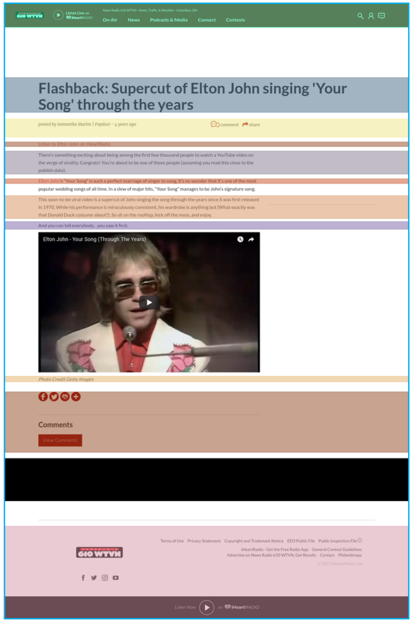

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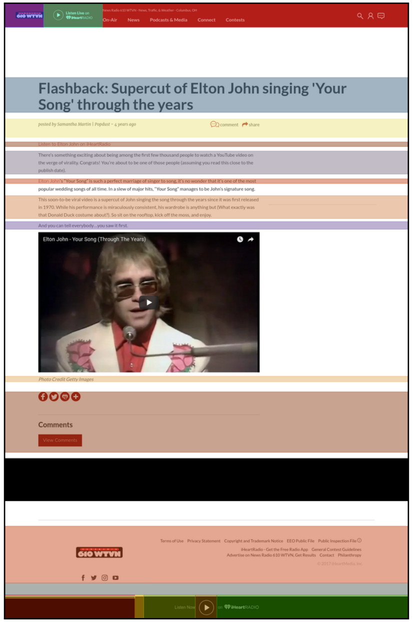

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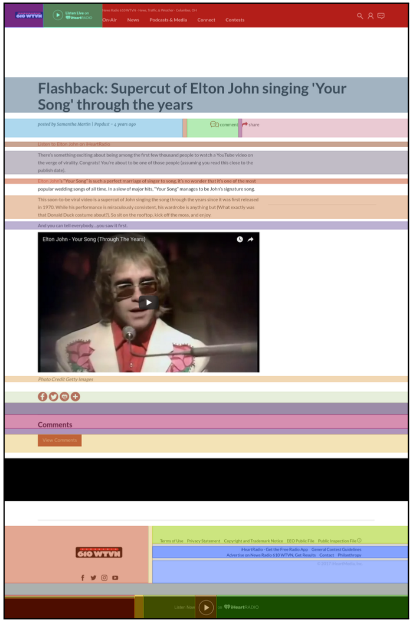

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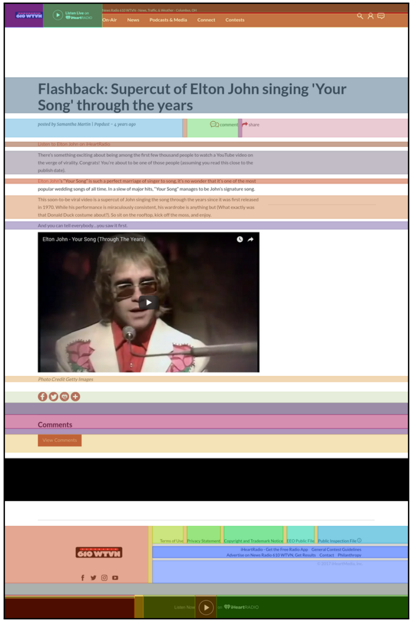

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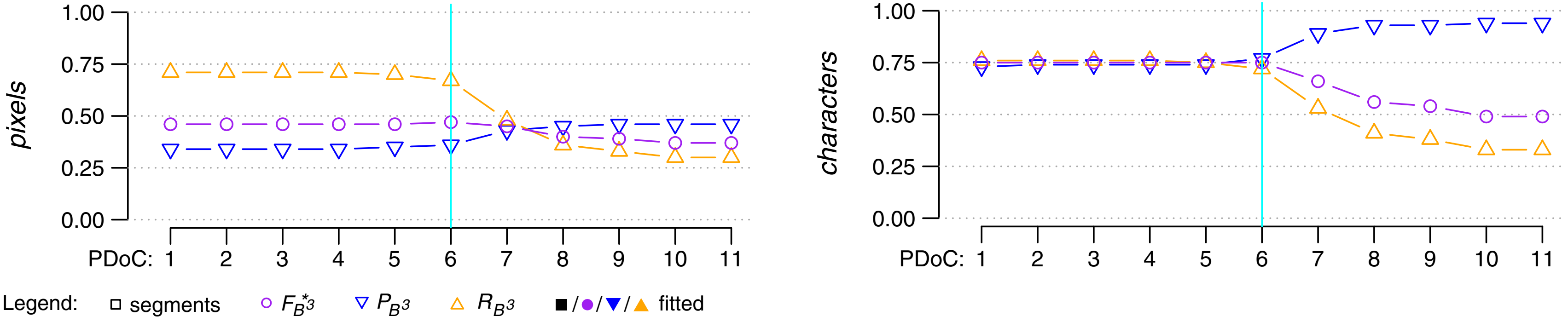
Comparison with ground-truth

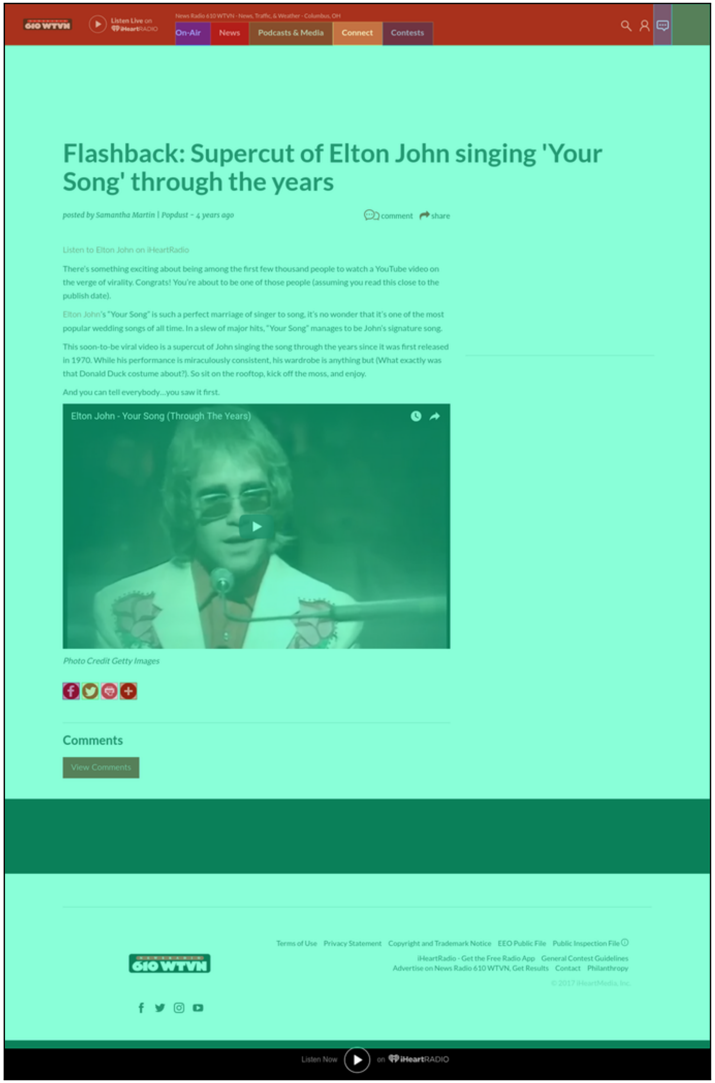


HEPS

“HEading-based Page Segmentation algorithm” by Manabe and Tajima, 2015

- Identifies headings and their segments by heuristic rules
- A heading is “both visually prominent and described the topic of a segment”

We slightly adopted the author’s original implementation



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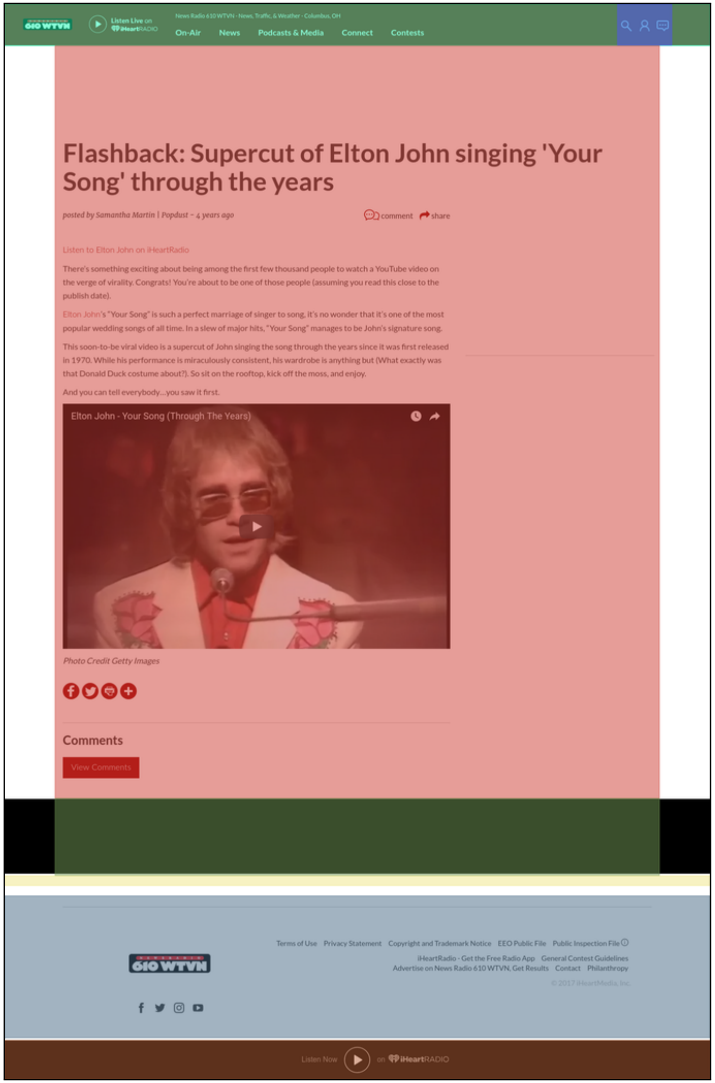
Comments

Cormier et al.

- Uses the web page screenshot as sole input
- Identifies locally significant horizontal and vertical edge pixels
- Identifies horizontal and vertical “semantically significant” lines of such pixels
- Recursively splits segments by most semantically significant line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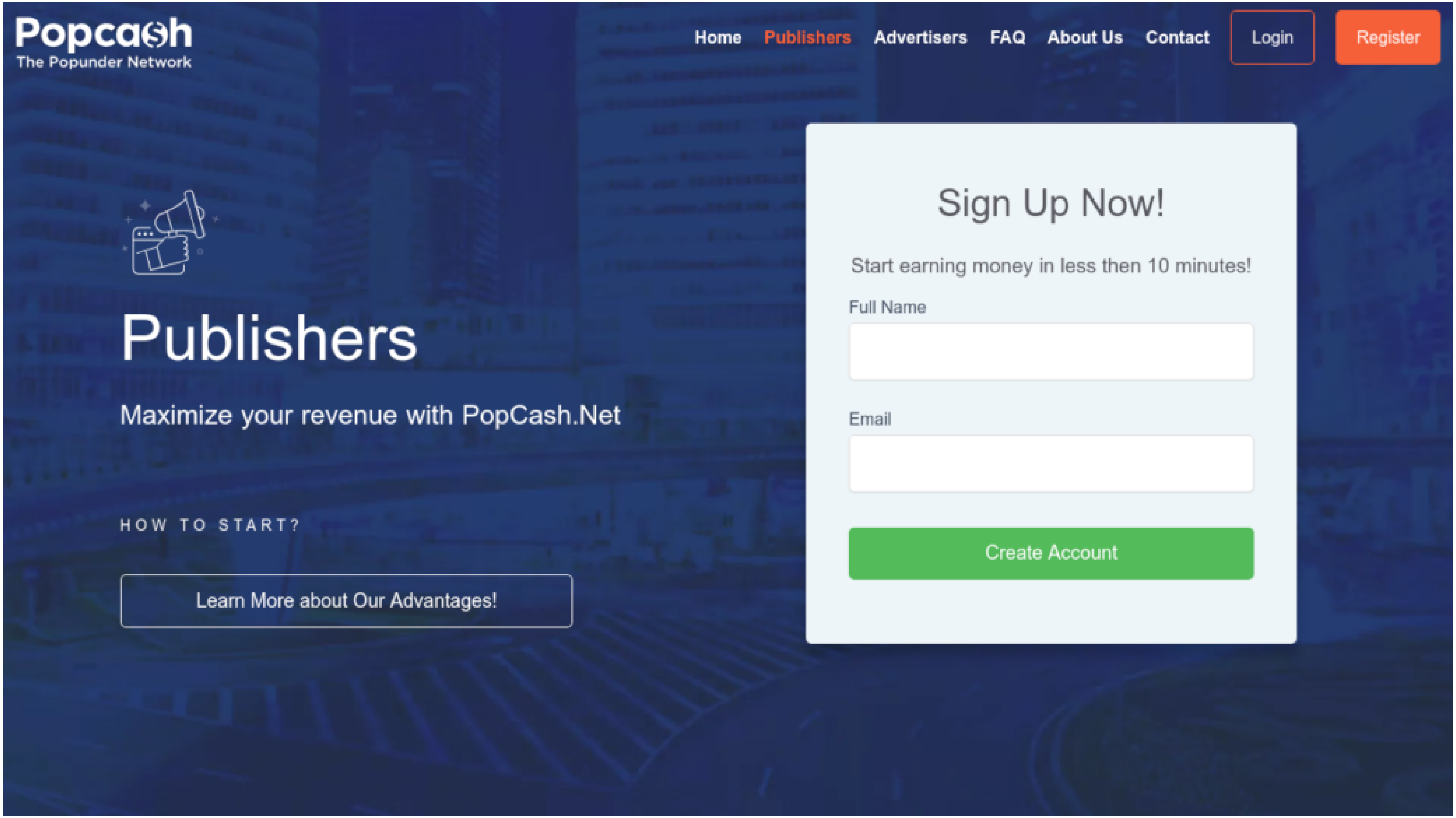

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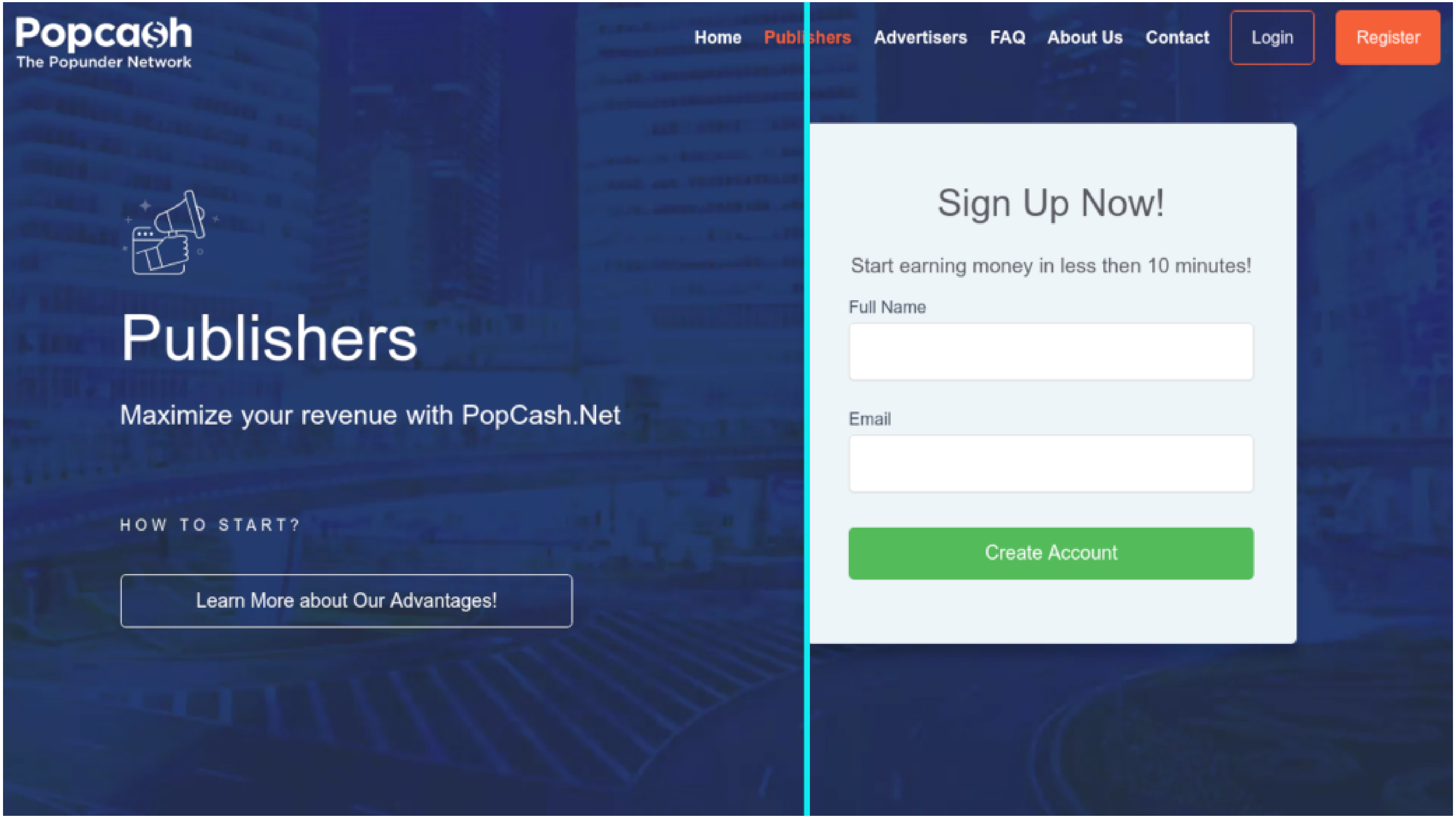

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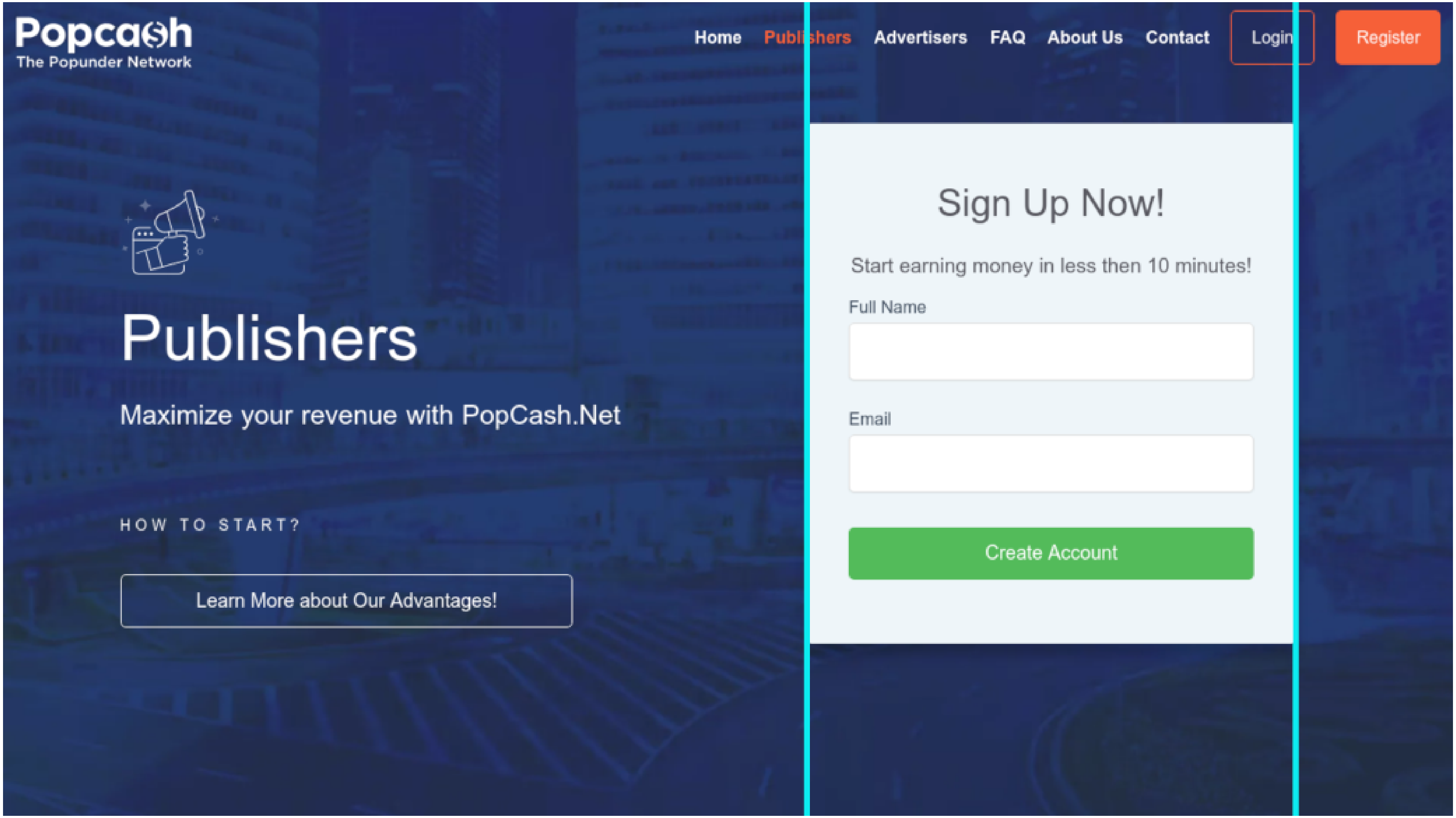

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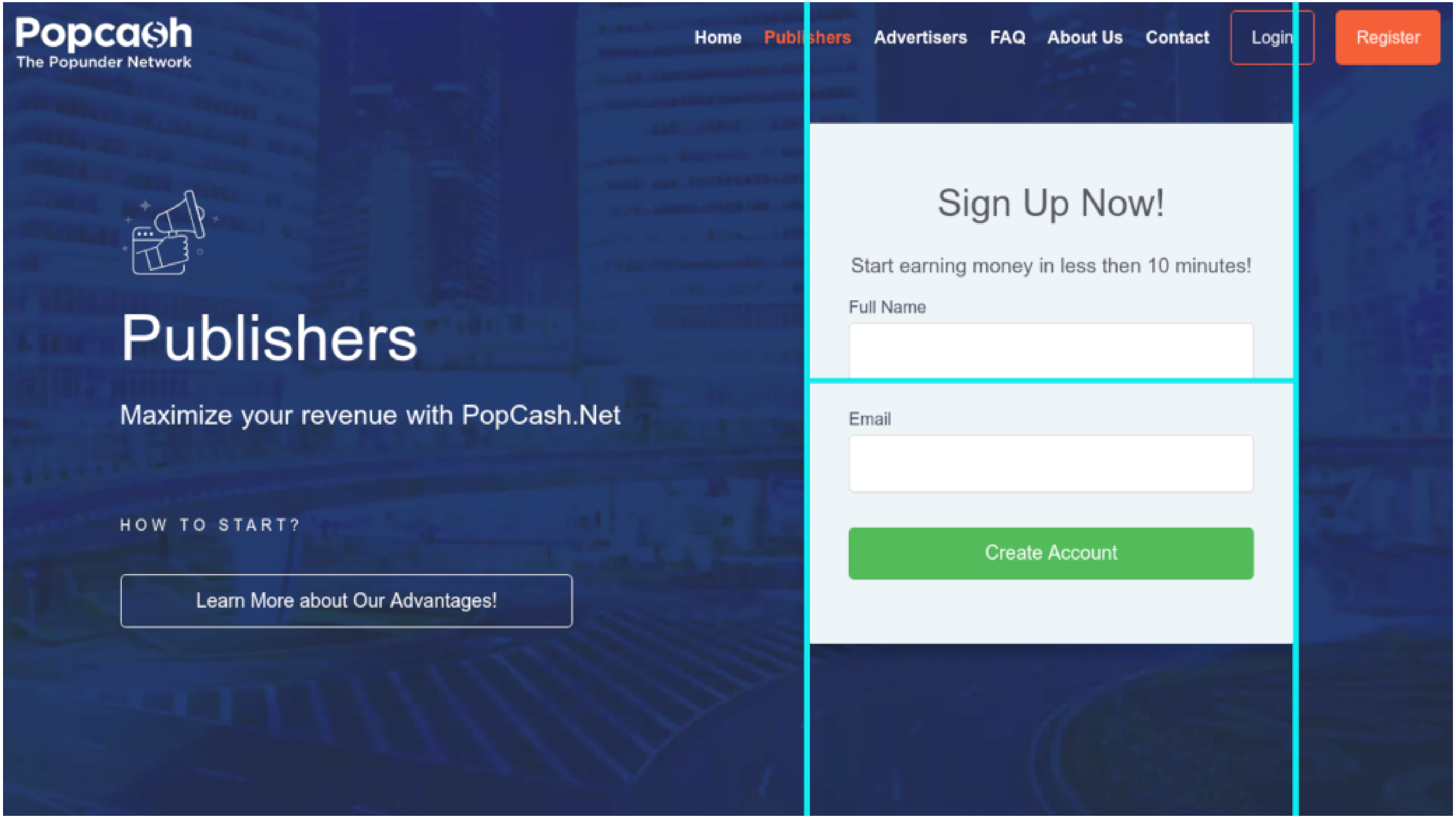

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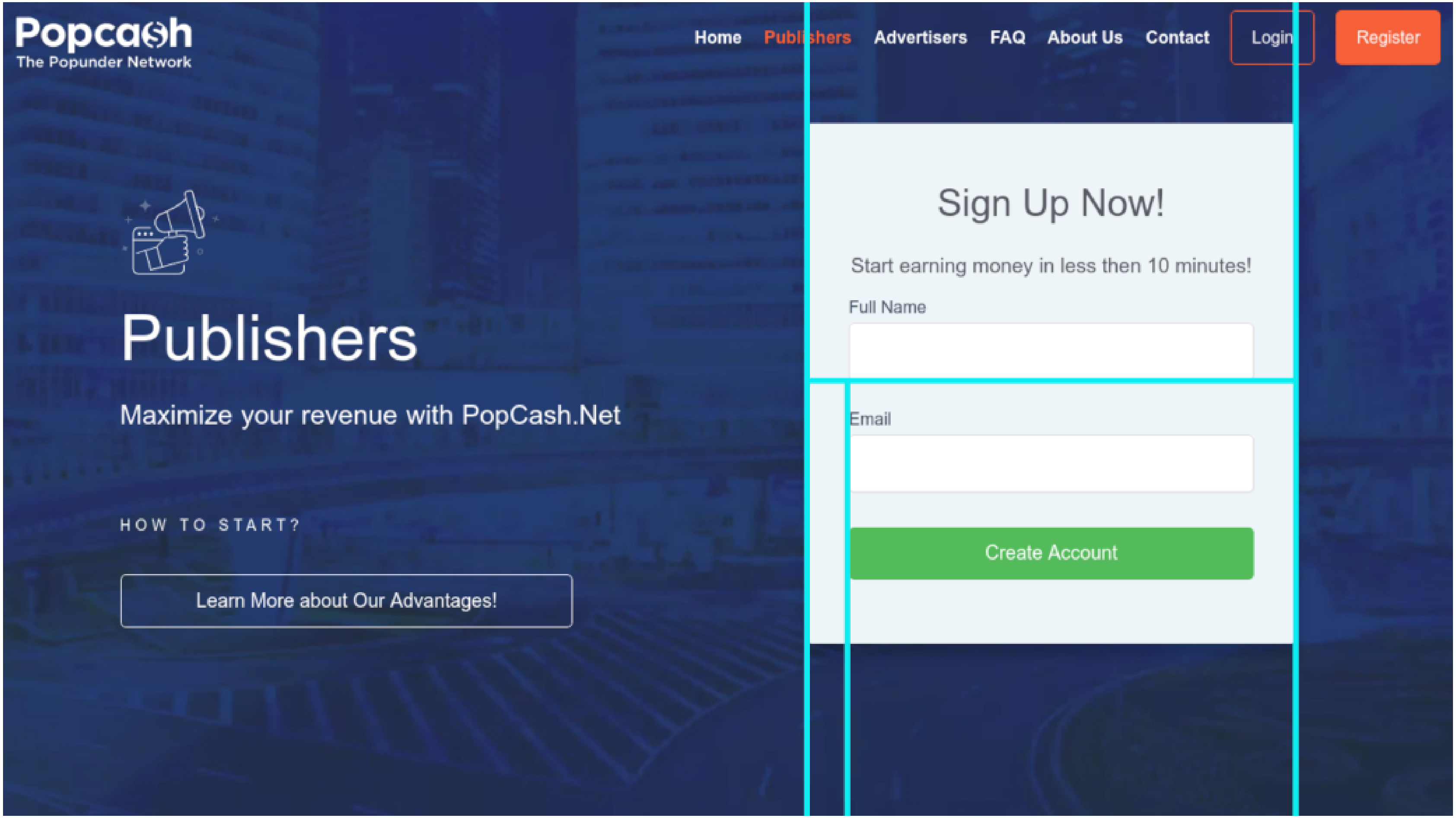

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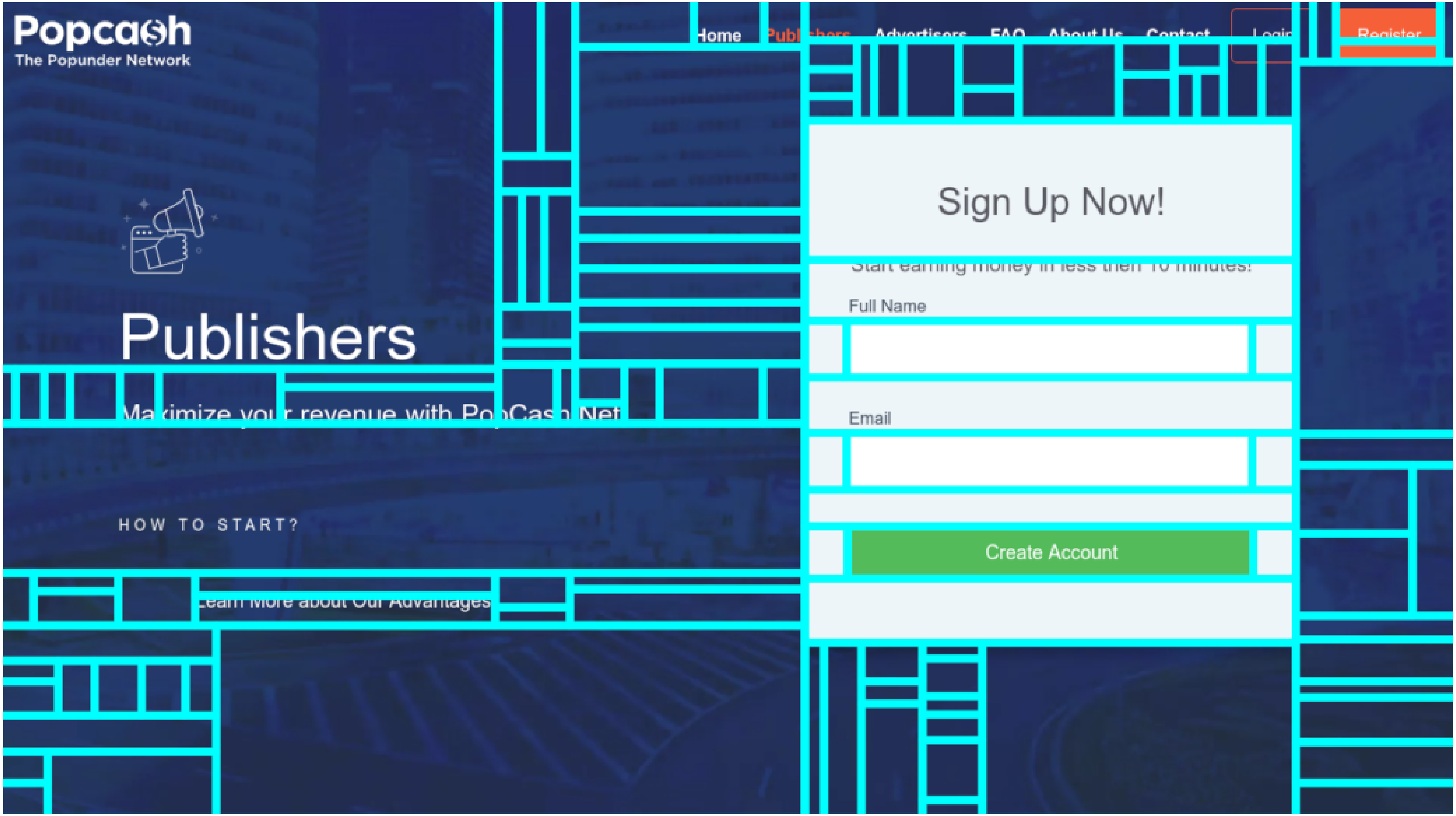

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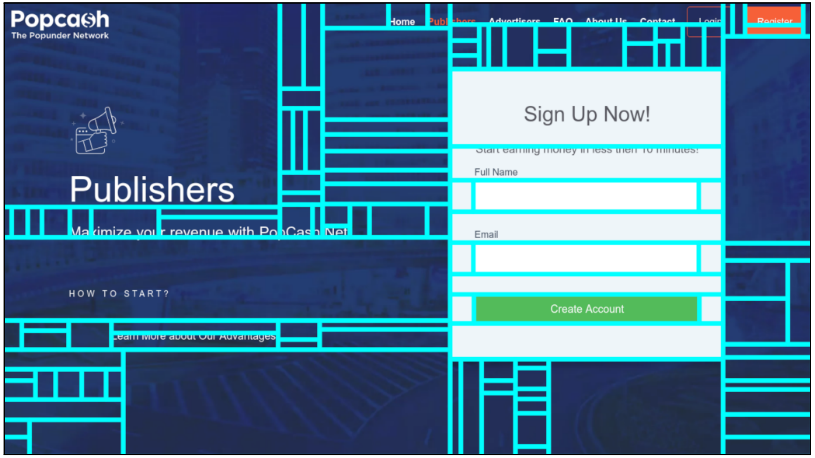
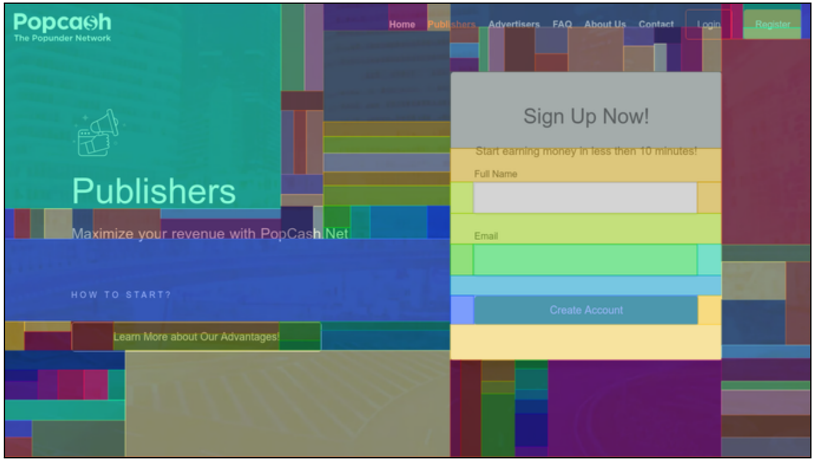
Cormier et al.: Fitting to DOM Nodes



Original (borders)

- Segments are fitted to DOM nodes like the human annotations for the ground-truth



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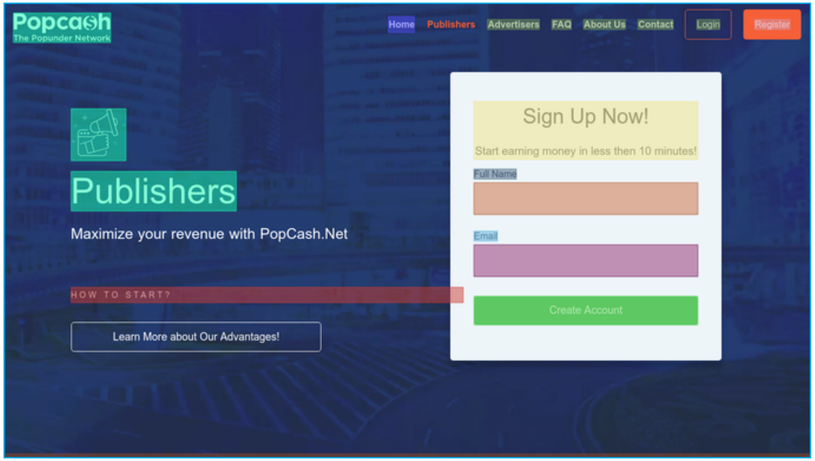
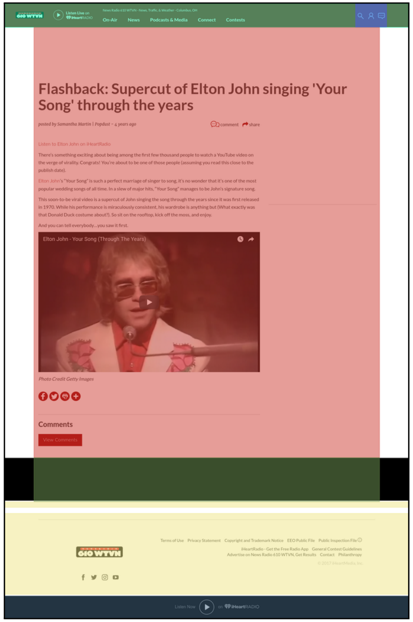


Fitted

Cormier et al.: Optimization



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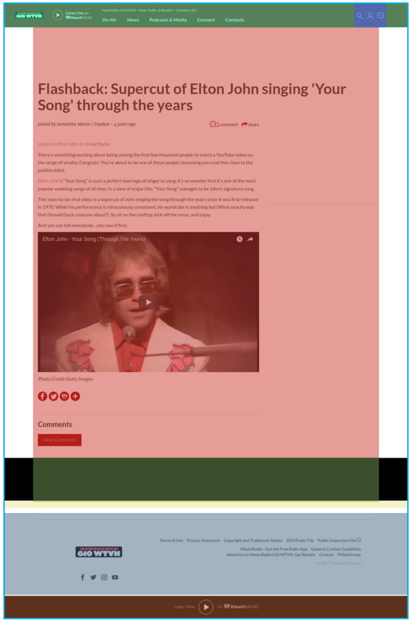

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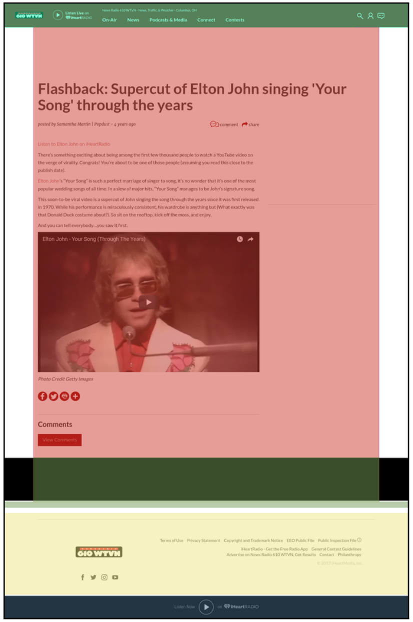

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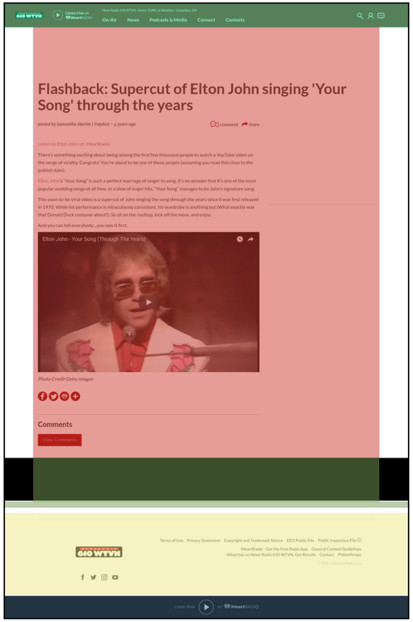

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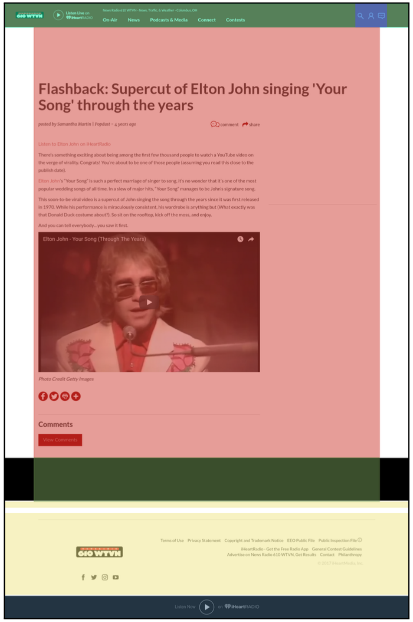

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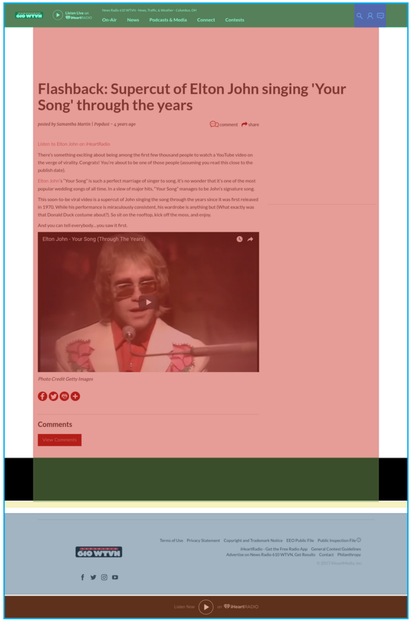

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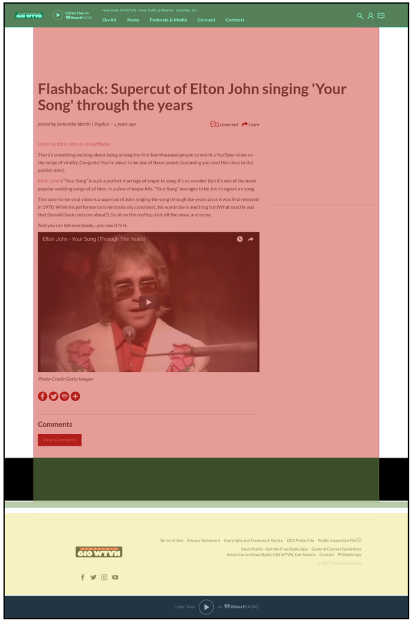

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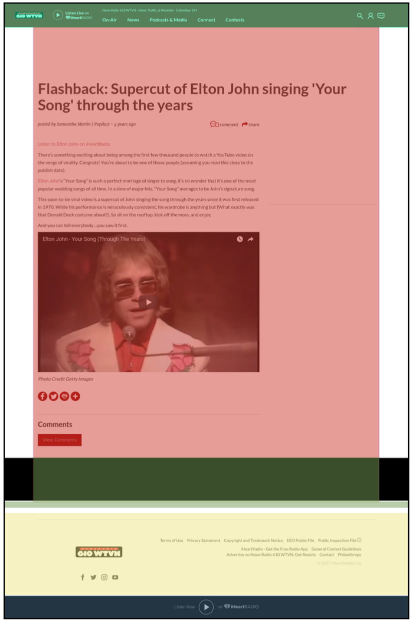

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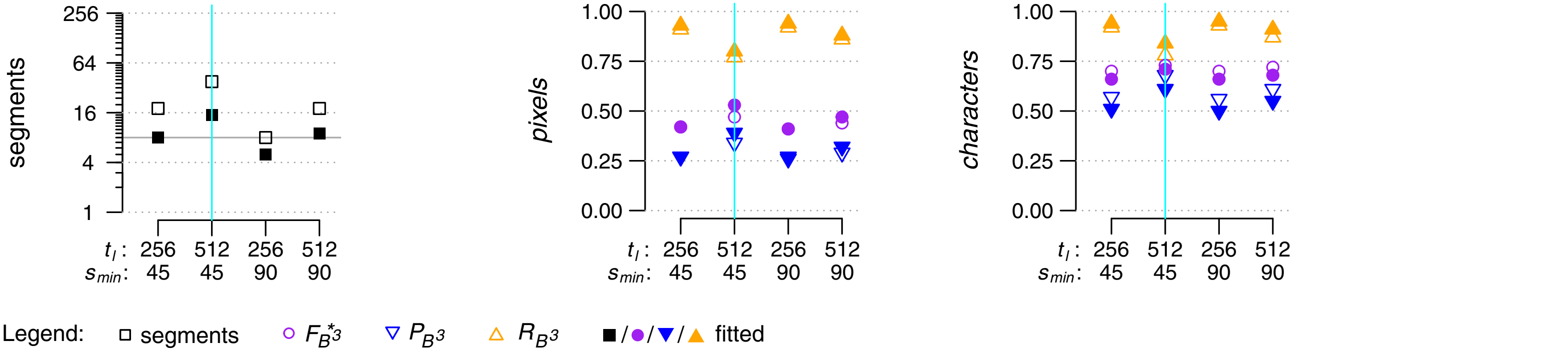
Number of segments and comparison with ground-truth

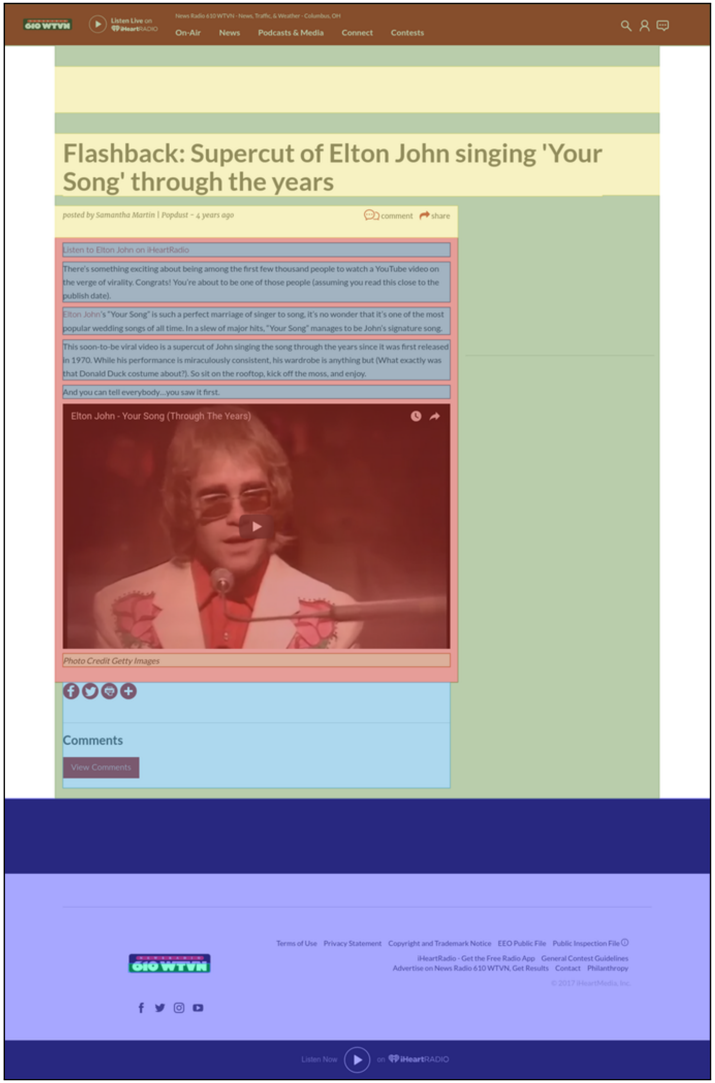


MMDetection

One Hybrid Task Cascade model from the MMDetection toolbox by Chen et al., 2019.

Model was state-of-the-art in 2020 as per the MSCOCO object detection task leaderboard

- ❑ Uses the web page screenshot as sole input
- ❑ Neural network
- ❑ Trained on object detection in real-world images (photos)



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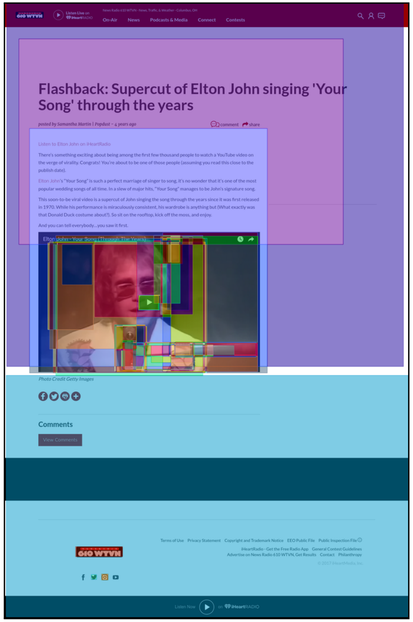

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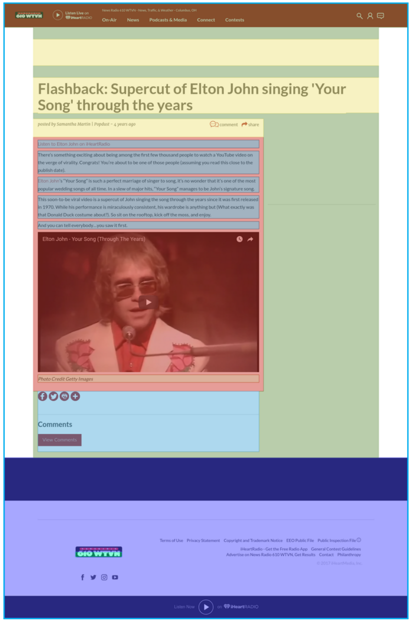

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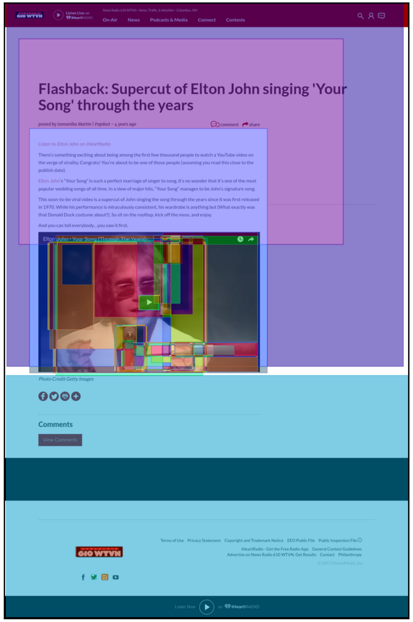

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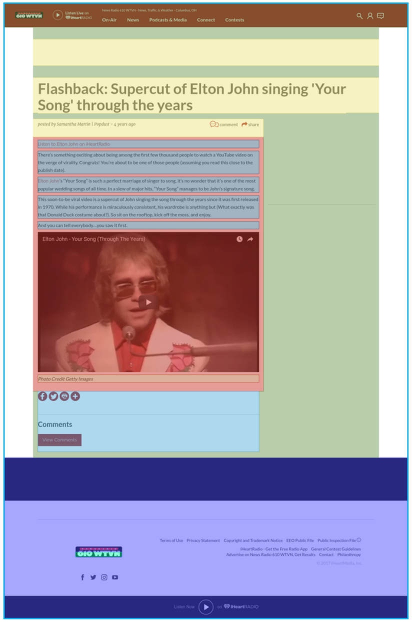

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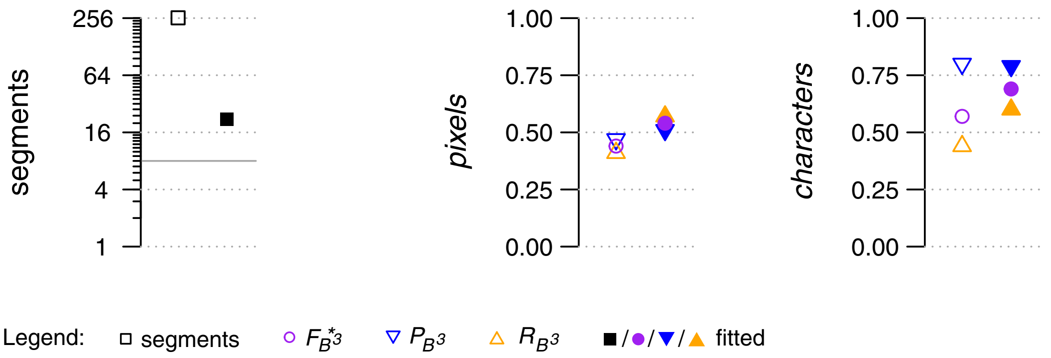
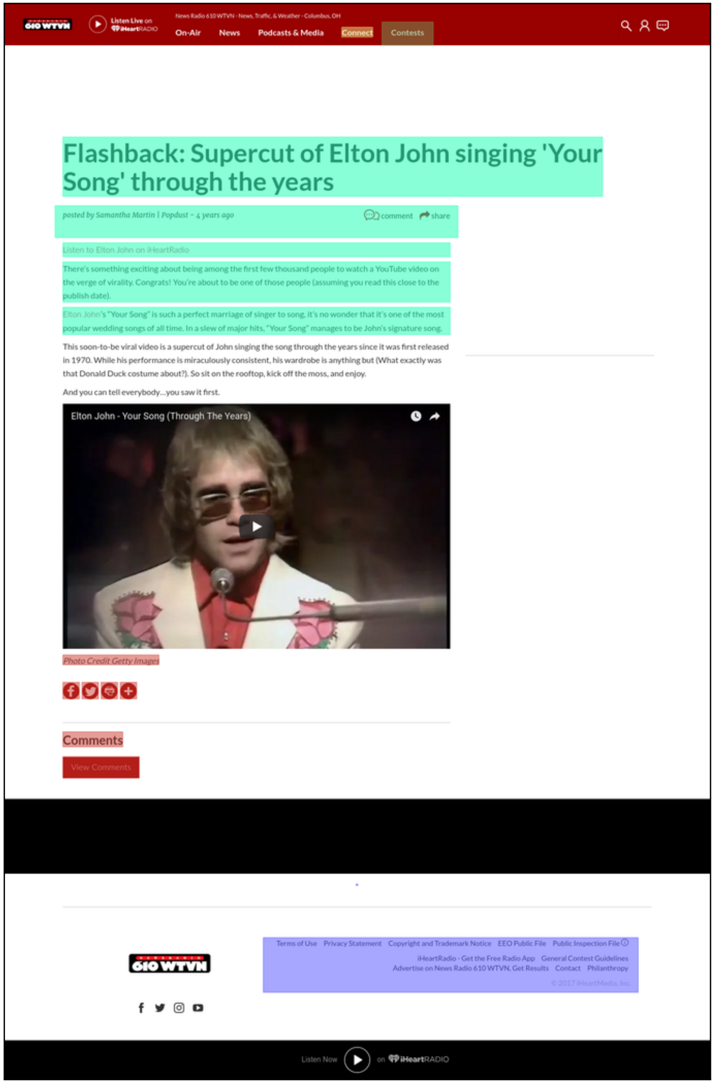


Meier et al.

Meier et al., 2017

- ❑ Uses the web page screenshot and the location of text nodes as input
- ❑ Convolutional neural network
- ❑ Requires fixed-size input images: cropping to 4096 pixels height
- ❑ Originally developed/trained for newspaper segmentation
- ❑ 10-fold cross-evaluation on the Webis-WebSeg-20
- ❑ No detailed comparison to other algorithms due to differences in the setup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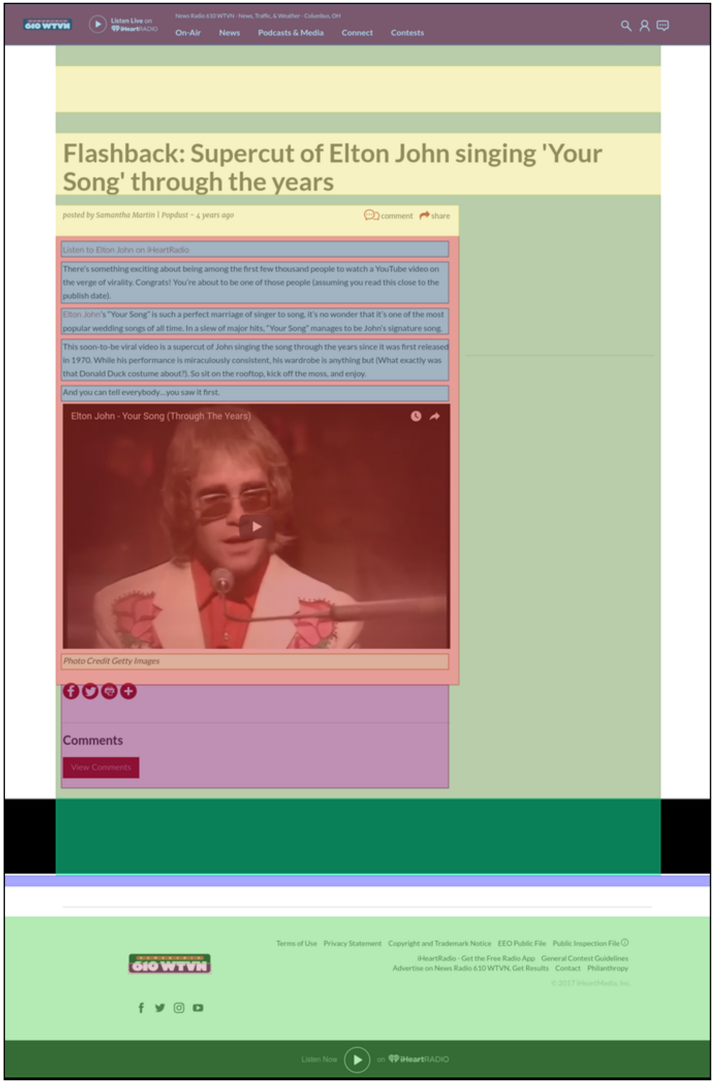
Min-vote Ensemble

- Ensemble of VIPS, HEPS, Cormier et al., and MMDetection
- Parameter $n \in [1, 4]$
- Ignores elements which less than n algorithms placed into segments
- Standard hierarchical agglomerative clustering
- Similarity of two elements is the ratio of algorithms that place these elements in the same segment
- Similarity thresholds is $\frac{n-0.5}{4}$
  Roughly: group elements together if at least n algorithms did so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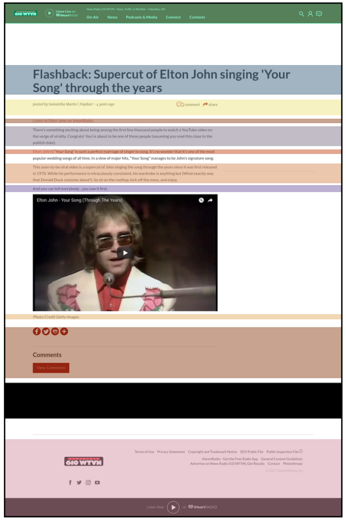

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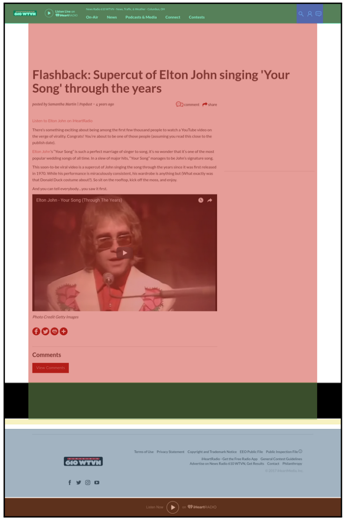

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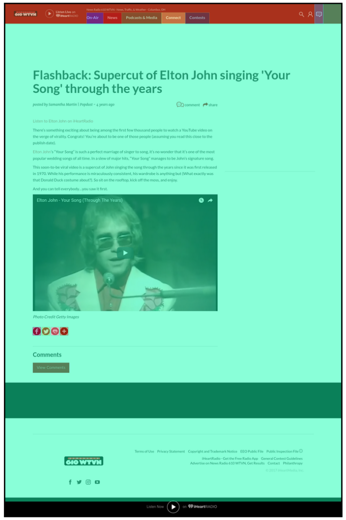

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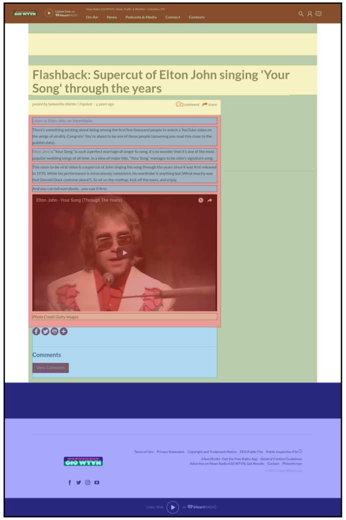
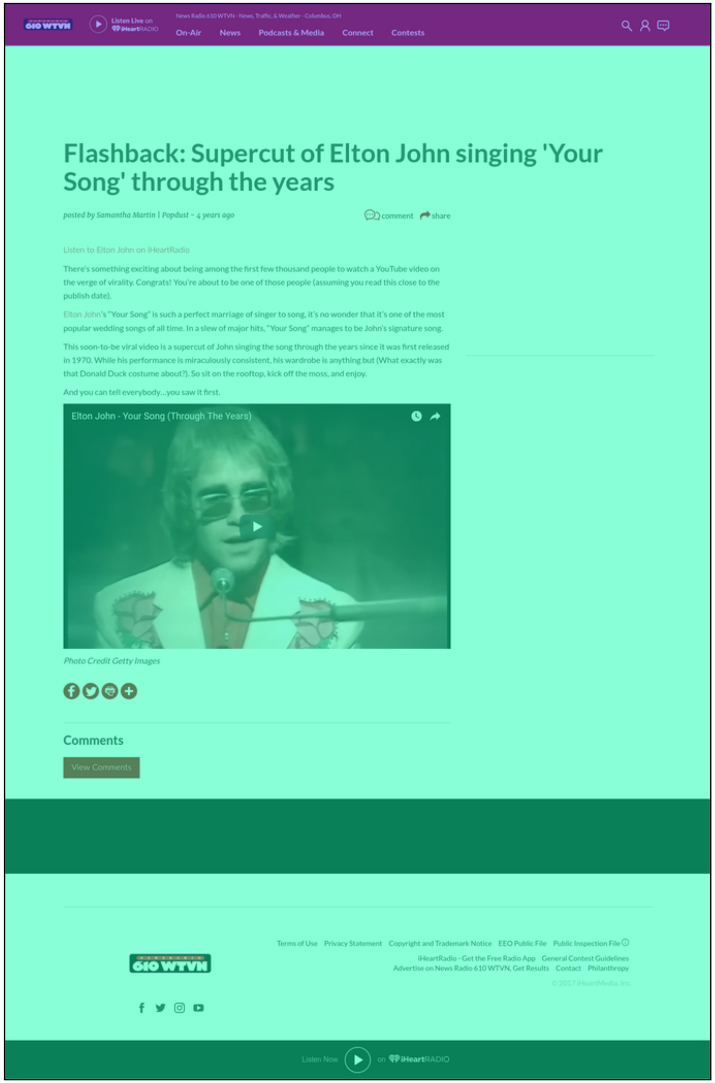


MMDetection

⇒



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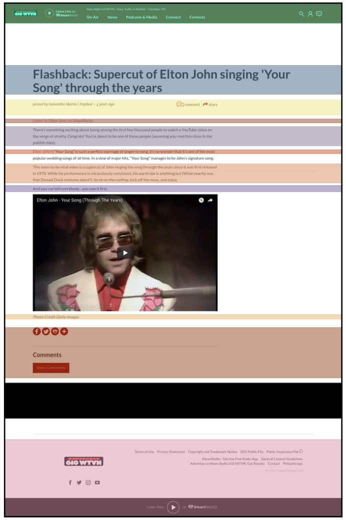

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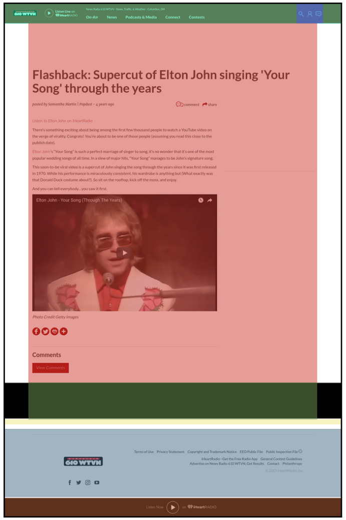

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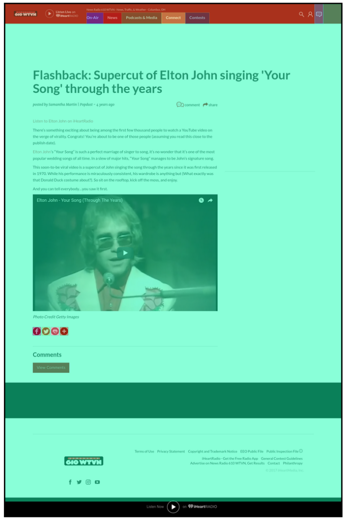
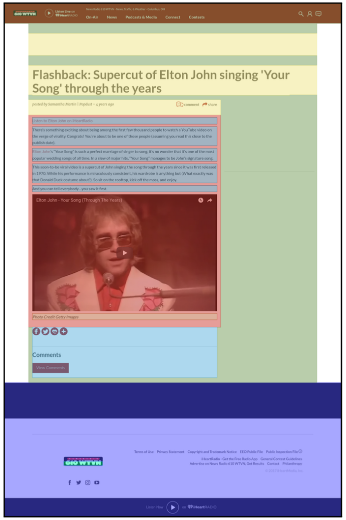
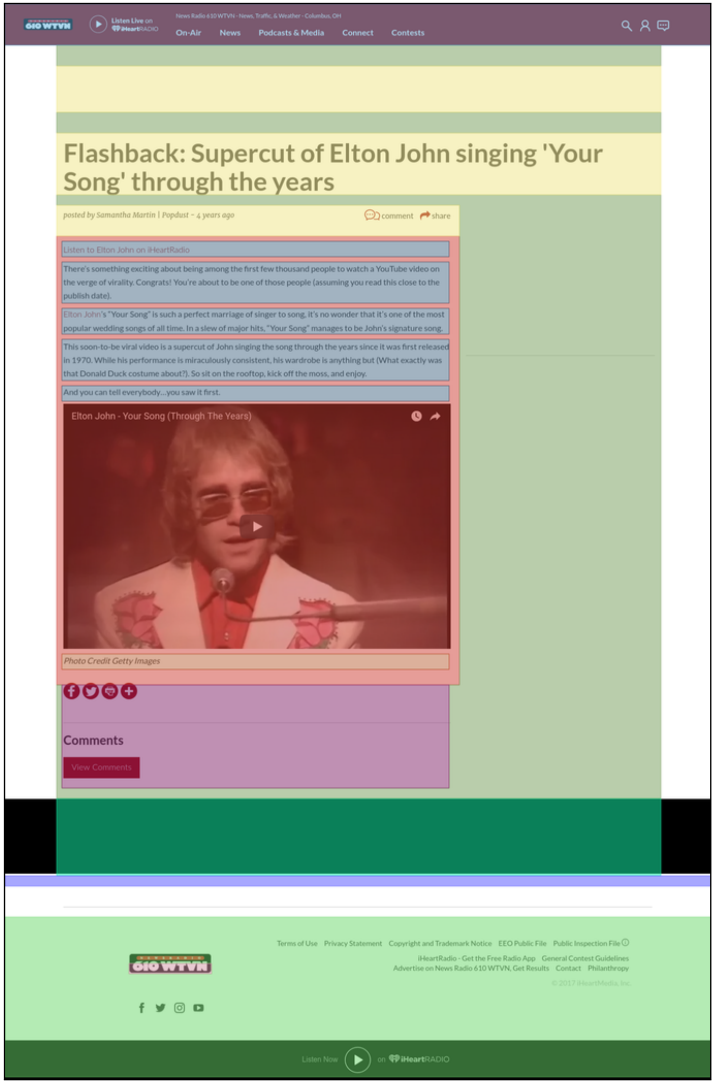


HEPS



MMDetection

⇒



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Flashback: Supercut of Elton John singing 'Your Song' through the years

posted by Samantha Martin | Popdust – 4 years ago comment share

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And you can tell everybody...you saw it first.

Elton John - Your Song (Through The Years)

Photo Credit Getty Images

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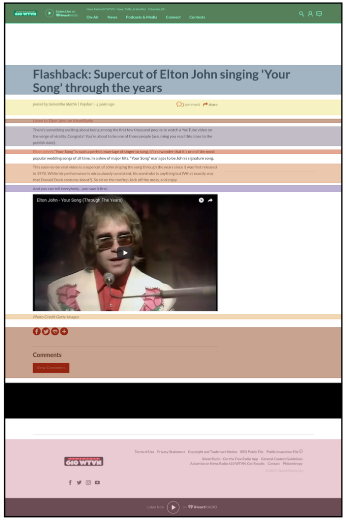
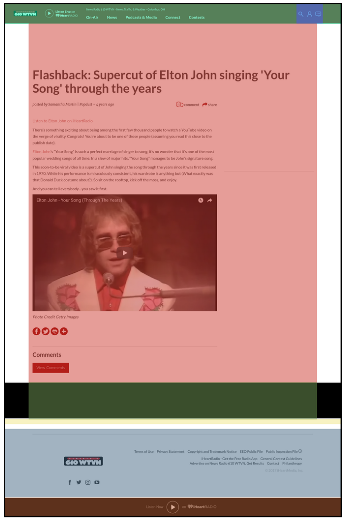
Min-vote@2

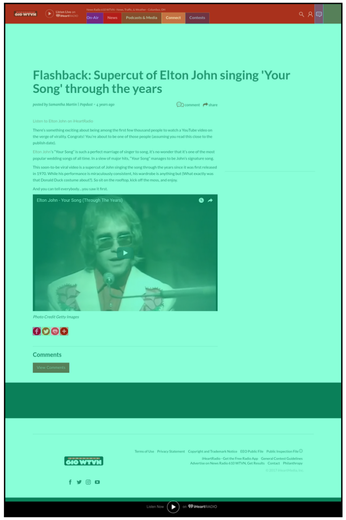
Min-vote Ensemble



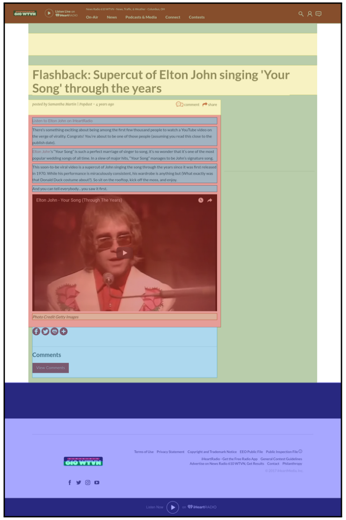
VIPS



Cormier et al.



HEPS



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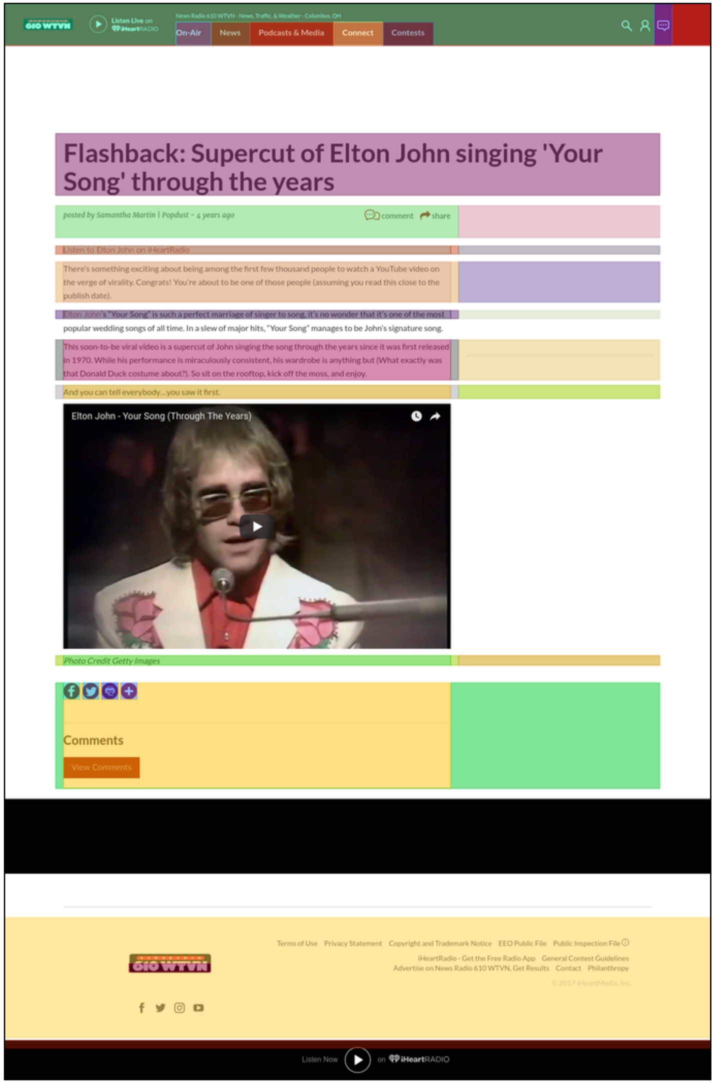

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Photo Credit Getty Images

Comments

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Min-vote@4

Results

Measure		**Baseline**	**VIPS**	**HEPS**	**Corm.**	**MMD.**	**Meier**	**MV@1**	**MV@2**	**MV@3**	**MV@4**
Segments		1.0	16.1	36.1	15.3	23.0	4.6	6.5	18.7	36.5	69.5
pixels	F_{B^3}	0.24	0.38	0.33	0.36	**0.42**	0.32	0.30	0.39	0.30	0.28
	$F^*_{B^3}$	0.28	0.47	0.44	0.53	**0.54**	0.50	0.35	0.50	0.45	0.42
	P_{B^3}	0.16	0.36	0.36	0.39	0.51	0.48	0.22	0.38	0.60	**0.68**
	R_{B^3}	1.00	0.67	0.56	0.80	0.57	0.52	**0.96**	0.72	0.36	0.30
edges$_{\text{F}}$	F_{B^3}	0.44	**0.59**	0.48	0.51	0.53	0.41	0.50	0.56	0.39	0.34
	$F^*_{B^3}$	0.49	**0.68**	0.58	0.65	0.61	0.55	0.56	0.66	0.49	0.45
	P_{B^3}	0.32	0.66	0.61	0.55	0.73	0.55	0.40	0.61	0.81	**0.87**
	R_{B^3}	1.00	0.69	0.55	0.80	0.53	0.55	**0.96**	0.71	0.36	0.30
edges$_{\text{C}}$	F_{B^3}	0.45	**0.61**	0.49	0.53	0.54	0.42	0.51	0.57	0.39	0.35
	$F^*_{B^3}$	0.49	**0.68**	0.59	0.66	0.62	0.56	0.56	0.67	0.50	0.46
	P_{B^3}	0.32	0.67	0.62	0.56	0.74	0.55	0.40	0.63	0.82	**0.88**
	R_{B^3}	1.00	0.70	0.56	0.80	0.53	0.57	**0.96**	0.72	0.36	0.31
nodes	F_{B^3}	0.42	**0.63**	0.43	0.52	0.52	0.44	0.49	0.54	0.34	0.31
	$F^*_{B^3}$	0.46	**0.70**	0.54	0.65	0.61	0.56	0.55	0.65	0.44	0.42
	P_{B^3}	0.30	0.69	0.63	0.53	0.74	0.52	0.38	0.64	0.85	**0.88**
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	P_{B^3}	0.16	0.36	0.36	0.39	0.51	0.48	0.22	0.38	0.60	**0.68**
	R_{B^3}	1.00	0.67	0.56	0.80	0.57	0.52	**0.96**	0.72	0.36	0.30
chars	F_{B^3}	0.52	**0.67**	0.50	0.61	0.61	0.50	0.59	0.62	0.40	0.39
	$F^*_{B^3}$	0.57	**0.75**	0.60	0.71	0.69	0.61	0.64	0.71	0.50	0.49
	P_{B^3}	0.39	0.77	0.73	0.61	0.79	0.59	0.48	0.72	0.90	**0.92**
	R_{B^3}	1.00	0.72	0.51	0.84	0.60	0.63	**0.96**	0.71	0.35	0.33

Results

Measure		**Baseline**	**VIPS**	**HEPS**	**Corm.**	**MMD.**	**Meier**	**MV@1**	**MV@2**	**MV@3**	**MV@4**
Segments		1.0	16.1	36.1	15.3	23.0	4.6	6.5	18.7	36.5	69.5
pixels	F_{B^3}	0.24	0.38	0.33	0.36	**0.42**	0.32	0.30	0.39	0.30	0.28
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Conclusion

- Empirical evaluation of
  - 5 web page segmentation algorithms on
  - 8490 web pages
- Usage of web archiving technology for reproducibility
- VIPS performs best overall, but not for *pixel* segments
- Competitive performance for purely visual approaches
- When fitted to DOM nodes, also a generic object detection algorithm trained on photos performs competitively