

Network Working Group
Request for Comments: 185

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1995

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Hypertext Markup Language - 2.0

status of this Memo

This document specifies an Internet standards track protocol for the Internet community, and requests discussion and suggestions for improvements. Please refer to the current edition of the "Internet Official Protocol Standards" (STD) for the standardization state and status of this protocol. Distribution of this memo is unlimited.

Abstract

The Hypertext Markup Language (HTML) is a simple markup language used to create hypertext documents. HTML documents are SGML documents generated by general-purpose text editors that are appropriate for representing a wide range of information, including structured text, images, and other objects. HTML is a standard markup language for documents designed to be displayed in a web browser.

THE

The "text/html" media type is defined by this specification (RFC 1521).

Table of Content

HEADINGS

Berners-Lee & Connolly

Standards Track

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Send your letters to EDITOR@MULTIPLY.GE

about this issue or webdev in general



Shit and godDAMN, son. I know you can count to six. I know you get paid six friggin' figures too. So why the fuck can't you, yes you, slap some motherfucking HEADINGS onto a sin-cursed website in the year of our lord two thousand two HUNDRED and twenty gat-DANG four?

God's nails! You're a knobjockey with SERIOUS ideas about type safety! You spend all day fiddling with consarn JSON files and can't see past the gigantic ego blimp that is your own inflated sense of self-importance to understand the irony in other things needing to nest properly to work.

"oOoOh! WeBSItEs aRe aPPs Not DoCuMeNts Now!" So thinkith the KING tosspot of pillock mountain. Guess what muchacho? It's still gonna be good ol' Hotel Tango Mike Lima under the HOOD of the VE-hicle no matter which car you drive.

I mean, fuck.

- Anonymous



Why has `<dl>` been done so dirty?
(Although I think `<summary>` and `<details>` have possibly eaten its lunch at this point and is arguably a better design.)

- <smitty />

I wish the hell I knew. Always seemed like there would be a lot of value in semantically associating keys with values without creating new sections of the document outline, but it never got any meaningful support:

<https://adrianroselli.com/2022/12/brief-note-on-description-list-support.html>

- Ed.



Dear Editor: I was very disappointed in last issue's Cooking Corner, which featured a recipe for clam chowder. As we all know, chowder is just hot milk soup, and, additionally, has no relevance to HTML. I am unsubscribing at once.

- A Concerned Citizen



I got my copy of the most recent issue and, for some reason, despite being listed in the table of contents, it seems like the recipe for clam chowder was torn out. Can you reprint it for those of us who didn't get the recipe?

- "Clam Chowder" Corey



I was digging through a dumpster because it was Tuesday and I found this recipe for clam chowder. I can't stand clam chowder but your magazine intrigued me. What the hell is this?
- Dumpster Bill



Dear Editor, your publication promised articles on the Chowder Standardization Summit (often referred to as CSS) but instead I just got a bunch of gibberish about how hard it is to center things. I am disappointed and hurt at this misrepresentation. Please cease this intentional deception or you will be hearing from legal counsel.

- Jack Dempsey
Chairman, Chowder Standardization Summit

Issue 2 is gonna be half the history of U+200D ZERO WIDTH JOINER and half quick-and-easy one-pot weeknight recipes that even your pickiest eaters are sure to love.

-Ed.



Editor: I was dismayed and, may I say, shocked at you devoting an entire recent issue to the `
` tag without mentioning its sinister history as a tool of the woke fascist communist "Standards Mob" of the 1990s and 2000s. Yet again, you cow-tow to a group of tag traitors who seek to disconnect the carriage return from the line feed. How dare you besmirch the `<p>` tag! How dare you even suggest that the `
` "compromise" of XHTML was "worth the pain." WHOSE pain, sir? Our lord and saviour Tim Berners-Lee did not give his life so that we can live in eternal life on the World Wide Web just so you can sully and MOCK his Great Plan with a SPACE THAT HE DID NOT PUT THERE. I am angry and disgusted with you, and I hope when you pass and you are called forth to the Great Port 8080 to be judged by His Holy Tagness you receive the 403 you deserve and spend your eternity in eternal Shockwave Flash Hell.

- THE HOLY REVEREND FATHER LORD RODNEY SHAFTINGTON
Durham, England

PS: To your credit, the chowder recipe was adequate, once I substituted tomato soup for all the ingredients

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TODO:

Ask Zach if
I can put an

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<https://11ty.dev>

<h1>HEADING</h1>

<h2>HEADING</h2>

<h3>HEADING</h3>

<h4>HEADING</h4>

<h5>HEADING</h5>

<h6>HEADING</h6>

The screenshot shows a code editor window titled "zine.html". The file path is "~/Desktop/zine.html". The content of the file is as follows:

```
1 <!doctype html>
2 <meta charset="utf-8">
3 <title>i heard u like headings</title>
4 <meta name=author content="eric portis">
5
6 <h2>Implied closing tags are great</h2>
7 <p>I can just stick a bunch of <code>p</code>s or
8 ... <code>li</code>s next to each other, omitting end tags,
9 ... and not worry about it.
10 <p>Valid HTML.
11 <p>Browser closes 'em for me.
12 <p><em>Fantastic.</em>
13 <h2>Don't try it with headings though
14 <p>These paragraphs end up <em>inside</em> the heading.
15 <p>Is that what you wanted?
16 <p>Look, maybe you're some kind of sicko, who wants to
17 ... put whole paragraphs in your headings. I don't know your
18 ... life.
19 <h2>What's that? You want to put a <h3>heading</h3>
20 ... inside a heading?
21 <p>No, I'm sorry, that is a bridge too far. We cannot
22 ... allow it.
23 <p>The parser sees the heading-inside-of-a-heading, and
24 ... says: "You are under arrest! Parse error. However I, as
25 ... ever, shall attempt to fail gracefully, in accordance
... with the relevant standards and practices." It closes
... the <code>h2</code> before it opens the <code>h3</code>.
<h2>No way out.</h2>
<p>Or in, as it were. Besides, with the default UA
... styles (<code>h2 { font-size: 1.5em }</code>), how would
... headings inside headings even look? Every level of
... nesting would boost the font size by 50%, on and on,
... exponentially? Preposterous – ludicrous! – outrageous.
<h2>Well-<i>unless</i></h2>
```

Implied closing tags are great

I can just stick a bunch of ps or lis next to each other, omitting end tags, and not worry about it.

Valid HTML5.

Browser closes 'em for me.

Fantastic.

Don't try it with headings though

These paragraphs end up inside the heading.

Is that what you wanted?

Look, maybe you're some kind of sicko, who wants to put whole paragraphs in your headings. I don't know your life.

You want to put a

heading

inside a heading?

No, I'm sorry, that is simply a bridge too far. We cannot allow it.

The parser sees the second heading, and says: "You are under arrest! Parse error. However I, as ever, shall attempt to fail gracefully and present the end user with something meaningful, in accordance with the relevant standards and practices." It closes the h2 before it opens the h3.

No way out.

Or in, as it were. Besides, with the default UA styles (h2 { font-size: 1.5em }), how would that even look? Every nested heading level would boost the font size by 50%, on and on, exponentially? Preposterous – ludicrous! – outrageous.

Well—unless.

I seem to remember, a certain – embroidery... website?

*I've heard
David wrote
dont really
ya?*

*It goes like
content tag
composing*

Hallelujah

Hallelujah

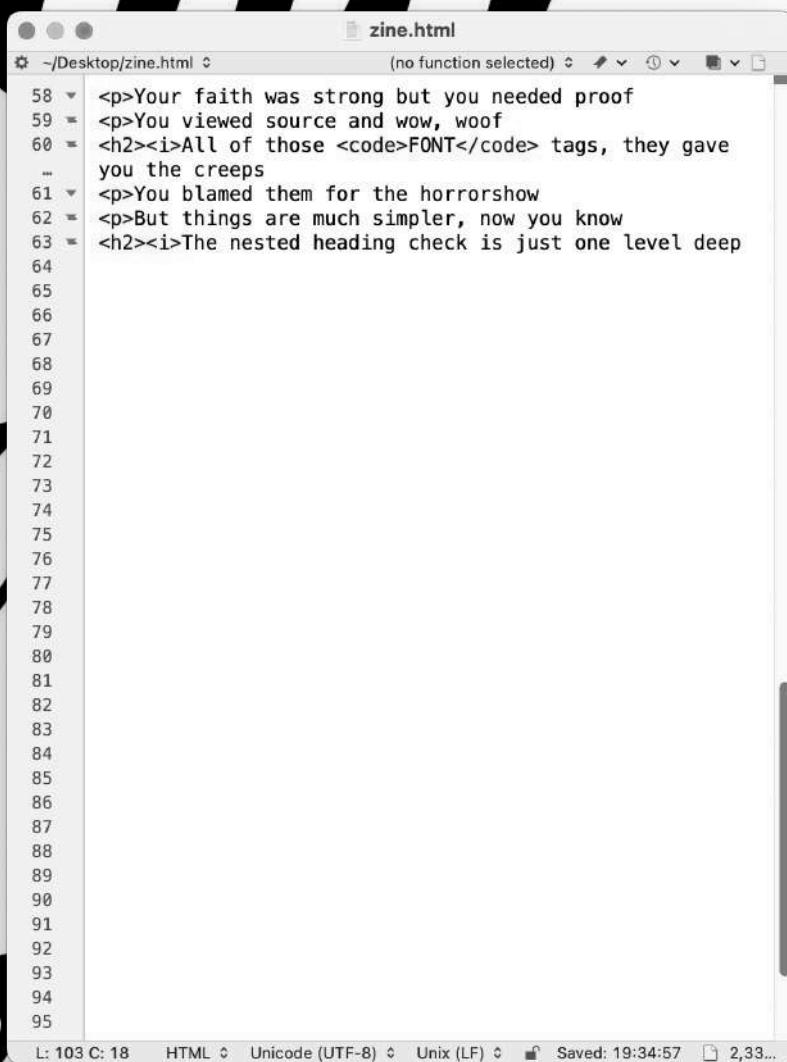


```
zine.html
(no function selected)

26 <p>I seem to remember, a certain – <a href="https://web.archive.org/web/20140310190221/http://www.sewingandembroiderywarehouse.com/embtrb.htm">embroidery... website?</a>
27 <h2><i>I've heard there was a secret node, that David wrote, and it pleased the Lord but you dont really care for document structure, do ya?
28 <p>It goes like this, the <code>h2</code>, the <code>i</code>, (any phrasing content tag will suffice), the baffled king composing, hallelujah.
29 <h2><i>Hallelujah
30 <h2><i>Hallelujah
31 <h2><i>Hallelujah
32 <h2><i>Hallelujah
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57
```

Hallelujah

Your
faith
was
strong



A screenshot of a code editor window titled "zine.html". The file path is shown as "~/Desktop/zine.html". The status bar at the bottom indicates the following information: Line count (L: 103), Column count (C: 18), File type (HTML), Encoding (Unicode (UTF-8)), End-of-line (Unix (LF)), Last save time (Saved: 19:34:57), and File size (2,33...).

```
58 <p>Your faith was strong but you needed proof
59 <p>You viewed source and wow, woof
60 <h2><i>All of those <code>FONT</code> tags, they gave
   you the creeps
61 <p>You blamed them for the horrorshow
62 <p>But things are much simpler, now you know
63 <h2><i>The nested heading check is just one level deep
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```



THERE IS NO



DOCUMENT

OUTLINE

ALGORITHM

FROM THE DESK OF

"SWAMPY" ANNIPSE

Headings, right? Good structure, great for making TOCs, nice for people on screen readers, and we collectively screwed the pooch SO BADLY devs just skip using them altogether, which is probably for the best, because when they DO use them, they USUALLY use them wrong.

Ever sourceviewed news sites? I have, and brother, it ain't pretty. They got Hs, yeah, but only FOX FUCKING NEWS uses an H1 on their home page, and then drops EVERY OTHER HEADLINE into an H3 soup regardless of context. Everyone else mixes up H2s or H3s and occasionally H4s like they were Toxie Stew, no reference to hierarchy, let alone to helping users or the laws of man and nature.

Altho, give it up for Wikipedia, they get it. They get it RIGHT. The one site on Timblsweb that's run by an eternally-roiling mob of hypersplainers hopped up on reversion juice, and they have just the CLEANEST headings you could ask for, while every other site out there is just throwing random Hs

at our eyeballs like they're shit spaghetti and they gotta see what sticks. NEED to, because otherwise they don't get them sweet engage-mint dollas, and somebody gonna take the fall for that, and it ain't gonna be anyone who actually made that shit an OKR in the first place. It's gonna be YOU, comrade.

Sometimes I think, the Reactbros are right, just make everything a hyperclassed `<div>` with a bunch of übermoist CSS and let God sort it out. THAT'S what this heading hell has reduced me to. I don't give in, I still structure, but fuck me if I don't get a little resentful about it. We're better than this. Well, we should be. I mean, I know folx who've

written whole CMS plugins JUST to juggle heading levels based on page context, and usually at some point they give up and say Yeah, it works in most cases, but it's not gonna catch everything and fuck it, I only got so much time on this Earth and I don't WANT to spend any more of it trying to pile-drive six numeric levels into submission, I've done enough, more than most really, I'm out.

I STILL STRUCTURE, BUT FUCK ME IF I DON'T GET A LITTLE RESENTFUL ABOUT IT.

Shit, as a desperate attempt to find SOME kind of way for authors to be able to bring SOME tiny semblance of sanity to their CMS-jambalaya'd pages, we got people saying stuff like let's have an attribute so you can override those heading level numbers with your own number (no, really: github.com/whatwg/html/issues/5033) and it's a hopelessly fragile, only-helpful-in-some-cases solution, but it's also WAY BETTER THAN WHAT WE HAVE NOW and that ain't right. At ALL.

Know what I miss? The document outline algorithm, that's what.

That was some Good Shit, y'all, but OF COURSE we couldn't have that because ours is a corrupt and fallen web. And world. We coulda had it so you just make every heading an <h> with no number bullshit and let code sort it out, but someone playin'. Who? Browser makers? Spec nerds? Don't KNOW, don't CARE. It was a thing we could have had, and didn't. I HATE that for us.

Anyway, yeah, headings suck and they aren't getting better and everyone who ever tried to fix it eventually gave up in exhaustion or frustration or desperation or just plain despair. Put THAT in your C-suite-mandated CI pipeline and smoke it like the dreams of a better tomorrow, cheese bags.

-SA

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```
<h1>First Level Heading</h1>
<h2>Second Level Heading</h2>
<h3>Third Level Heading</h3>
<h4>Fourth Level Heading</h4>
<h5>Fifth Level Heading</h5>
<h6>Sixth Level Heading</h6>
```

The Case for Satanic HTML Outlines

AMERICA IS THE MOST RELIGIOUS of wealthy Western nations. The vast majority believe in a God and, of those, predominantly a Christian one. America also hosts by far the highest share of the world's top 1 million websites.

According to the WebAIM 2023 survey, there are 1,146,080 skipped heading levels to be found in just the homepages of these high traffic sites. Skipped headings are, of course, just one measure of inaccessible document structure. Another striking statistic from WebAIM's report: 7.9% of these homepages had no headings whatsoever. Not one.

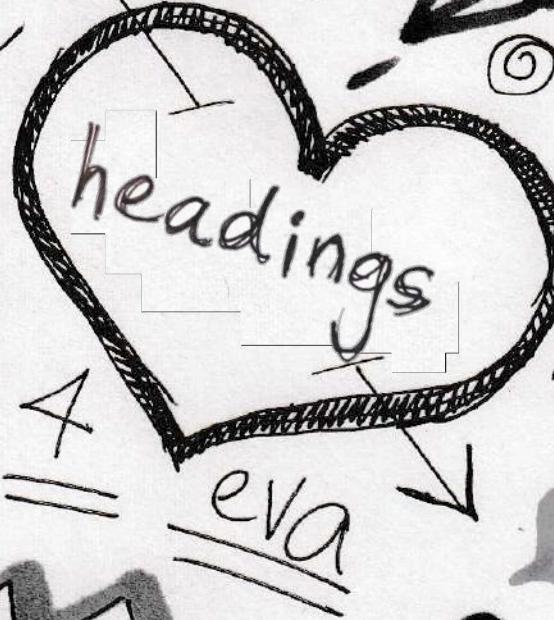
It stands to reason that Jesus Christ Himself would be in support of a WCAG compliant application of HTML heading elements, despite mentions of HTML accessibility best practices being conspicuously absent in most (if not all) translations of The Holy Bible. Instead, we can look to his extensive work with disabled people, which primarily involved touching them briefly to make them instantaneously abled.

So why is the Christian Web so inaccessible? The Old Testament is less sympathetic. It goes so far as to characterize disabled people as unclean and even conflates disability with sin. Which is rude. The problem with treating multiple archaic texts as a single text and the resulting false single text as the source of absolute truth, is you're licensed to cherry pick whichever "truth" suits your agenda. Even where two of the absolute truths it offers are mutually contradictory.

The history of American Christianity is the history of the powerful and psychotic systematically abridging and reinterpreting Biblical truth to propagandize the American people. Their God hates disabled people, and the poor, and goes out of his way to be a Bad Samaritan. He only cares about profit, and if you can't prove that substituting a would-be `<h2>` element with a `<p>` styled using `font-style: bold` will diminish His wealth, you will be forsaken.

Satanism exalts the self over religious and paternalistic authority. Satanists do not worship Satan; they act as Satan was fabled to act, by defying that authority. A Christian Web prevails, and it is characteristically, hatefully inaccessible. Coding HTML document structures correctly may or may not enable someone to extract wealth. But we do it regardless, as a Satanic ritual act, that hurts an illegitimate God.

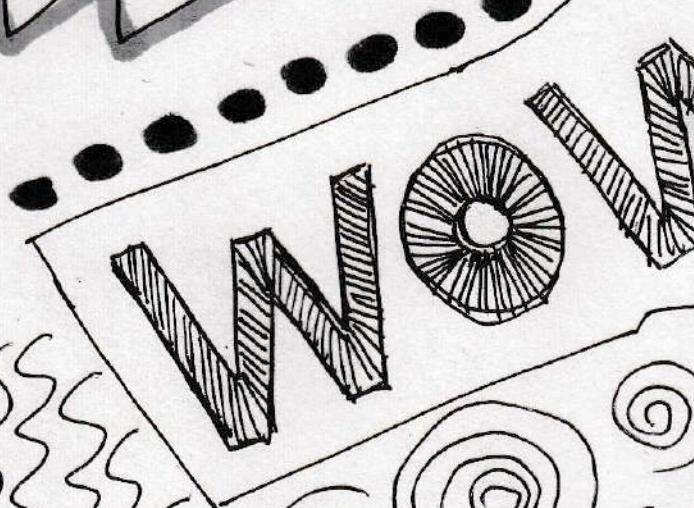
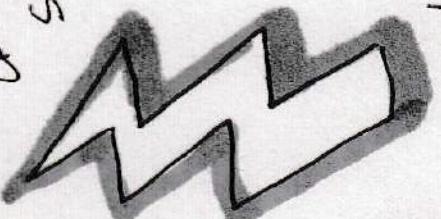
kew!



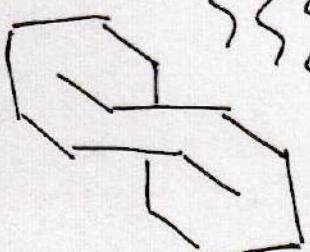
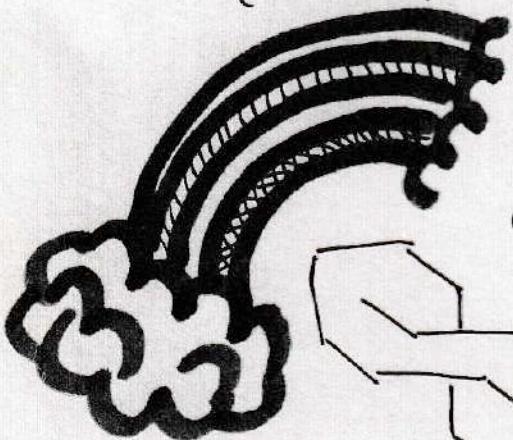
A
=

eva

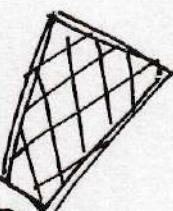
zidne art cars
dan he man
now art unap



for a good time
call HAT



* n3 is Ha



h



MR HIX'S EXTRAORDINARY ORDERMATION



A lumbering, windowless, black lacquer stagecoach with golden yellow accents caused quite a scene pulling into town. The coach was pulled by two majestic white horses and came to a stop in front of the city hall. It sat silent for a moment, motionless, long enough for small crowd of people to gather to admire the cacophony of brass pipes and steam whistles that adorned the wagon. A pop, a flash of gunpowder shot forth from the sconces near the door, a small red carpet unrolled itself and the door of the stagecoach creaked open.

From out of the stagecoach came a tall, slender man in a purple velvet suit and black felt top hat. With a dramatic flourish of the arms and hands, he began his one-man show.

*I am Mr. Hix, cordials and good well
I come to speak about a certain modern hell
Come all and see! A now solved mystery!
To make easy yoke of mathematics and trigonometry
Once a point of prior tribulation
Welcome to the new era of ordering
No more be bored by tasks of menial banality
Let the wizards of modern technology fulfill your fantasy
No more shall you need to employ a porter
For the simple task of putting numbers in order
In accounting of taxes, or ingredients to cook, or to finding chapters in the Book,
Let not what I show you be mistook
Numbers help us know where to look*

The crowd was intrigued by the limerick. Anything that sounded eloquent, as fluid as poetry, must have some inspired truth behind it. He continued.

*I have behind me a great machine, never seen,
born of labor from the greatest minds of the Anthropocene
Using tools of logic, reason, inference, and fact
We can take any number out of order and place it... back
Back to what it was meant to be
The Divine Image of ordinality
Behold!*

Taking a plumed ink quill to a thin piece of parchment, the slender man scribed in immaculate penmanship.

“Two... Three...” he paused, with an anticipatory smile on his face, stretching the fabric of the entire audience’s rapt and baited breath.

“One...” The crown released a collective whimper. But he soon began again.

“Five... Six...” The numbers were going up, approaching a type of climax in pitch and timbre. The audience held in a gasp.

“Four.”

He finished his incoherent series of numbers with a mannerism of confidence and assurance.

“Now I will feed these numbers, this jumble of values, into my Extraordinary Ordermaton!” He approached the stagecoach and lifted small brass flap with a small gap no wider than his sliver of paper. He fed the paper into the machine and slowly, the windowless stagecoach came to life. A burbling of steam power, a clank of mechanical gear, a hiss of ingenuity, until the ding of a bell. The velvet man crossed the wagon to the other side of the door where there was another brass flap of similar size. Mr. Hix lifted the flap and out popped a thin piece of paper like the one he put in the machine.

“Would anyone be willing to read this? My eyes are getting so old I’m afraid I can’t find my glasses,” he grinned a sly grin, garnering a laugh. He plucked a bespectacled man from the audience. *“You sir, could you read this loud enough so everyone can hear?”*

The man cleared his throat and brought the paper into focus, “one... Two... Three... Four... Five... Six.” The man blinked in disbelief but he had the numbers here himself. The audience cheered at the magical act they had experienced before their eyes; a machine which would automatically put numbers in the correct hierarchy.

“Now here’s what we shall do, tell your neighbors too. Bring me your numbers and I will parse them for you. You will be free from the burdens of having to pay attention to details. Later we can talk about the price for which this machine retails.”

The crowd clamored for a chance to test out the machine. Scribing numbers on the paper every which way and in a few short breaths received a tidy reinterpretation of their messy documents. Over the days and weeks word spread far and wide about this wondrous machine. Townsfolk trusted the numbers and gave it years worth of documents to reassemble. That’s where the problems started for Mr. Hix.

As popularity of this machine blossomed, a small group of people realized something was not right, the numbers in the document were not in order and still horribly wrong. They gathered at the wagon to confront Mr. Hix. As they voiced their concerns a bead of sweat formed on the velvet man’s brow. He stammered and squirmed but his reassurances fell flat.

“Perhaps there was a mistake and it returned the original documents back,” he hissed not at the crowd but towards the machine. “No need to worry, this will be fixed in short order. Come back tomorrow and I’ll have your documents sorted.”

After many days the crowd was growing in discontent. Some of the rough and tumble boys began throwing rocks at the stagecoach. Mr. Hix desperately flung his arms and tried to shoo them away. But one of the rocks hit a steam pipe, just so, and knocked it loose causing a horrific chain reaction. As pipes, radiators, bells, and whistles smashed to the ground the stagecoach siding was also ripped off the frame, revealing Mr. Hix's secret.

Inside the stagecoach was not the constructs of a sophisticated machine, but an exhausted person hiding among the stacks of paper. Mr. Hix attempted to control the situation.

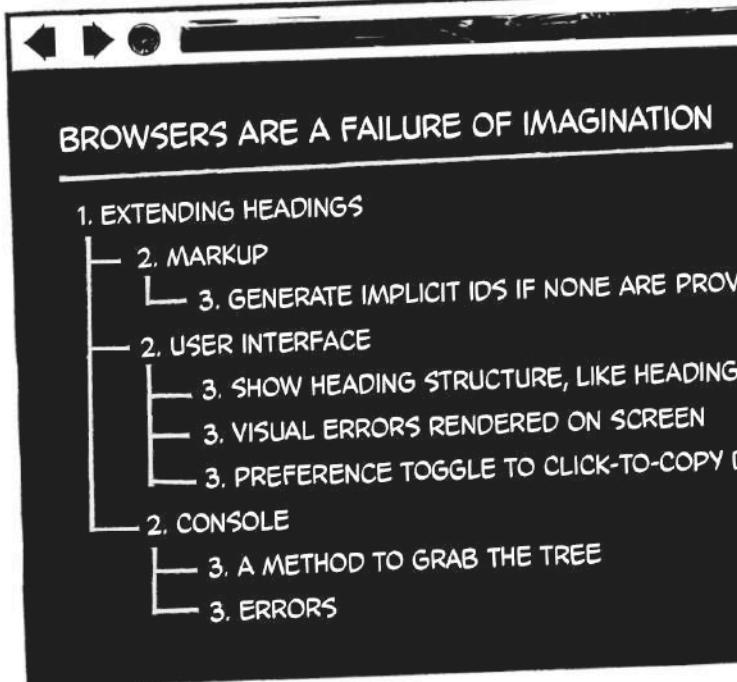
“Well now, I must confess. The technology to automatically make sense of such documents is not implemented... yet. Any day now our real machine will be ready! This was just a prototype to show you what will soon be possible. We just need more investment to make the dream you all saw with your own eyes a reality.”

Mr. Hix and his unnamed associate were dragged out of town by the Constable. The mayor issued a moratorium on automatons presiding over the order of documents. And life went back to how it was before Mr. Hix showed up. As city workers cleared away the debris away from the befuddled machine a new stagecoach approached the town center, this one painted in cherry red.

*Come one, come all, open a eye and see!
A new paradigm in solutionology!
A machine that can summarize the news of the day
Or answer any question causing you dismay
It can fix any problem with any of your five senses
Witness these magical artificial intelligences*



WEBAIM.ORG/PROJECTS/MILLION/#HEADINGS



BETTER TOOLS FOR BETTER EDUCATION AND OUTCOMES

GET MAD THAT WE WASTED YEARS ONLY BIKE SHEDDING JAVASCRIPT RENDERING BECAUSE IT MADE CAPITALISM GO FASTER



DOING MY HEADING IN



AN INTERVIEW WITH

STEVE FAULKNER

AUT

Few people have picked more web standards fights about headings than Steve Faulkner, all of which led up to the PR that put the final nail in the never-was HTML5 document outline's coffin.

Who are you, what's your whole deal, etc?

I consider myself to be a Wanker (Whatareya? (You're A Yob or You're A Wanker)^[1]). I am also a Web Accessibility Worker, have been so for too long (20 odd years). I have also been a Web Standards worker (at W3C) since 2006. I am also now one of 4 directors/partners in TetraLogical^[2], an accessibility consultancy based in the UK, where I have lived for 18 years, although I still identify as an Australian. Outside of my main job I do Web Standards consulting for Vispero™, working with some old chums from Freedom Scientific™, the makers of JAWS™ to help improve^[3] JAWS support for HTML^[4]/ARIA. In my spare time I write stuff^[5] and I design and sell Web Standards Leisurewear^[6].

What do headings have to do with accessibility?

Many HTML elements and attributes are mapped to accessibility semantics^[7] in the browser. For example, `<h1>` has a `role=heading` and a `property level of 1`. This information is used by assistive technology (AT), such as screen readers, to convey meaning to users aurally^[8], just as text size and placement conveys meaning to users who consume the UI visually. AT users find the information useful^[9] by being able to understand which content is acting as a heading, being able to access the UI structure and navigate by headings.

AUT

How did headings end up so busted?

I think the genesis of the HTML headings fiasco started with the choice of the original *standardistas* to opt for a hard coded level based definition for headings in HTML^[10]. This worked ok for a while, but as the web developed and HTML started to be used for more complex User Interfaces (UI) and UIs became more dynamic and componentized, the hard coded structural nature of *h1-h6* became a brittle semantic, that caused issues for the new kids. Not that it wasn't fragile to start with:

... documents should not skip levels (for example, from H1 to H3), as converting such documents to other representations is often problematic.

HTML 2

https://www.w3.org/MarkUp/html-spec/html-spec_5.html#SEC5.4

It is also the case that developers don't understand the fundamentals of HTML semantics or don't care much about conveying an accurate document structure non visually. So even when HTML headings are used, oftentimes, the heading element used does not match their implied semantics.

Then HTML5 set out to fix it?

I first encountered the HTML outline algorithm at a W3C meeting in 2008. It was in a breakout session at TPAC. It was being spruiked by 2 of the movers and shakers of the burgeoning WHAT WG. In essence the Outline algorithm moved the semantics of a heading level from being derived from a headings name *h1-h6*, to being derived from the nesting level of a heading within sectioning content^[11]. The obvious issue with this method is that it was never implemented in browsers. Yes the CSS styling was implemented, but the actual exposing of the headings with the level they theoretically

represented was not. Thus the W3C HTML5 spec included a warning^[12] I added to make it clear to developers that the outline algorithm was a fiction. As at the time there were 2 versions of HTML I also filed an issue^[13], in 2015, on the WHATWG HTML spec to add a warning.

...And then?

I waited^[14], and waited^[15], and waited some more^[16], until 2022 when I realised that unless someone other than the editors did the work the WHATWG HTML spec would continue to have a decade old theoretical fiction masquerading as HTML truth. Note by this time the spec wars were long over and the only maintained specification was WHATWG HTML. There had been lots of discussion and hand wringing by various Web Standards Celebrities, but no actual changes in the spec or implementations of the outline algorithm in user agents. So I decided to do it myself with a Pull Request (PR): replace current outline algorithm with one based on heading levels^[17].

My thinking at the time was that at least if the HTML spec^[18] reflected some sort of reality, after a decade of misdirection, developers would no longer be misled into thinking that the nesting of headings in sectioning elements actually did anything.

Speaking of HTML5, what was wrong with *hgroup* – it makes sense on paper, yeah? "Made?"

During my time as an editor of the HTML5 spec (at W3C) I ended up removing *<hgroup>* as what it represented^[19] was meaningless as it derived its semantics from a fiction and in reality was nothing more than a styling hook (think *<div>*) that lead developers to use *h1-h6* elements as subheadings, when they did not work as such. I did try to work with the editors of the WHATWG HTML spec at the



time, to make `<hgroup>` more meaningful, to no avail. It remained in the WHATWG HTML so when I came to do the PR to update the outline algorithm, rather than re-litigate the uselessness of `<hgroup>` I decided to recast `hgroup`^[20] in a form that mitigated its negative effects.

Where do you land on this proposed `headingstart` attribute?

To be honest I have pretty much tuned out of the discussion, I find my attention span is fairly limited for this particular rabbit hole and prefer to work on the myriad other web standards opportunities that present themselves. Having read through the issue^[21] it seems reasonable and the right heads are involved in the discussion. If it gets implemented interoperably, bravo!

While we wait to see how that plays out, what should we be doing right now?

Use `h1-h6` as described in the HTML spec. Also have a read of Subheadings, subtitles, alternative titles and taglines in HTML

And finally, would you, in your professional opinion, say that we fucked up headings?

"Fucked," no. Its warty, just as the rest of the web platform is. We all try our best—sometimes it just ain't good enough.

⚠Warning! There are currently no known native implementations of the outline algorithm in graphical browsers or assistive technology user agents, although the algorithm is implemented in other software such as conformance checkers and browser extensions. Therefore the outline algorithm cannot be relied upon to convey document structure to users. Authors should use heading rank (`h1-h6`) to convey document structure.

1. <https://youtu.be/GiHdpAVIHgo>
2. <https://tetralogical.com/>
3. <https://github.com/FreedomScientific/standards-support/issues>
4. <https://freedomscientific.github.io/standards-support/html.html>
5. <https://html5accessibility.com/stuff/>
6. <https://www.etsy.com/uk/shop/HTMLZ>
7. <https://www.w3.org/TR/html-aam-1.0/>
8. <https://www.tpgi.com/thus-spoke-html/>
9. <https://webaim.org/projects/screenreadersurvey10/#heading>
10. https://www.w3.org/MarkUp/html-spec/html-spec_5.html#SEC5.4
11. <https://html.spec.whatwg.org/multipage/dom.html#sectioning-content-2>
12. <https://www.w3.org/TR/2016/CR-html51-20160621/sections.html#creating-an-outline>
13. <https://github.com/whatwg/html/issues/83>
14. <https://codepen.io/stevef/post/a-decade-of-heading-backwards>
15. <https://html5accessibility.com/stuff/2021/03/21/a-decade-a-year-of-heading-backwards/>
16. <https://html5accessibility.com/stuff/2022/04/05/12-years-beyond-a-html-joke/>
17. <https://github.com/whatwg/html/pull/7829>
18. <https://html.spec.whatwg.org/multipage/>
19. <https://html.spec.whatwg.org/multipage/dom.html#represents>
20. <https://html.spec.whatwg.org/multipage/sections.html#the-hgroup-element>
21. <https://github.com/whatwg/html/issues/5033>

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