



# Průzkum existujících technologií pro kontrolu WWW prezentací

Adam Kugler v rámci SP<sub>1</sub>

# Prozkoumávané oblasti

- HTML
- CSS
- JavaScript

# HTML

- HTML validátory

# Co umí dosavadní HTML validátory

- Zkontrolovat HTML syntaxi
- Zkontrolovat platnost odkazů
- Zkontrolovat sirotčí soubory
- Zkontrolovat překlepy v textu
- Zkontrolovat více souborů, projít celý web

# W3C HTML validátor

Errors found while checking this document as HTML5!			
Result:	91 Errors, 5 warning(s)		
Address :	<input type="text" value="http://en.wikipedia.org/wiki/Wikipedia"/>		
Encoding :	utf-8	<input type="text" value="(detect automatically)"/>	
Doctype :	HTML5	<input type="text" value="(detect automatically)"/>	
Root Element:	html		

## Validation Output: 91 Errors

✖ Line 6, Column 55: Bad value X-UA-Compatible for attribute http-equiv on element meta.



```
<meta http-equiv="X-UA-Compatible" content="IE=EDGE" />
```

✖ Line 52, Column 559: Attribute srcset not allowed on element img at this point.

```
...mons/thumb/f/fc/Padlock-silver.svg/40px-Padlock-silver.svg.png 2x" /></a></div>
```

# W3C Link Checker - vstup

- Testuje odkazy a kotvy
- Možnost nastavit hloubku zanoření

Enter the address ([URL](#)) of a document that you would like to check:

**More Options**

☐ Summary only

☐ Hide [redirects](#): ☒ all ☐ for directories only

☐ Don't send the [Accept-Language](#) header

☐ Don't send the [Referer](#) header

☒ Check linked documents recursively, recursion depth:

☐ Save options in a [cookie](#)

# W3C Link Checker - výstup

## List of broken links and other issues

There are issues with the URLs listed below. The table summarizes the issues and suggested actions by HTTP response status code.

Code	Occurrences	What to do
<a href="#">(N/A)</a>	10	The link was not checked due to <a href="#">robots exclusion rules</a> . Check the link manually, and see also the link checker <a href="#">documentation on robots exclusion</a> .
<a href="#">200</a>	5	Some of the links to this resource point to broken URI fragments (such as index.html#fragment).
<a href="#">404</a>	5	The link is broken. Double-check that you have not made any typo, or mistake in copy-pasting. If the link points to a resource that no longer exists, you may want to remove or fix the link.

✖ Line: 455 <https://www.guildwars2.com/en/news/traits-unleashed-forty-new-traits-and-more/>

Status: 404 **Not Found**

The link is broken. Double-check that you have not made any typo, or mistake in copy-pasting. If the link points to a resource that no longer exists, you may want to remove or fix the link.

# Co umí dosavadní CSS validátory

- Zkontrolovat CSS syntaxi
- Zkontrolovat kontrasty barev (kontrola přístupnosti)
- Zkontrolovat nepoužité selektory
- Vypsát validní CSS



# W<sub>3</sub>C CSS validátor

By URI By file upload By direct input

Validate by URI

Enter the URI of a document (HTML with CSS or CSS only) you would like validated :

Address :

▼ More Options

Profile :  Medium :

Warnings :

## Sorry! We found the following errors (132)

URI : <http://en.wikipedia.org/wiki/Wikipedia>

260	Property overflow-y doesn't exist in CSS level 2.1 but exists in : auto auto
274	Property overflow-y doesn't exist in CSS level 2.1 but exists in : auto auto
390	Value Error : <a href="#">border-top-color</a> sienna is not a color value : sienna sienna
391	Value Error : <a href="#">border-color</a> sienna is not a color value : sienna sienna
396	Value Error : <a href="#">border-right-color</a> brown is not a color value : brown brown
397	Value Error : <a href="#">border-color</a> brown is not a color value : brown brown
421	Value Error : <a href="#">background-color</a> sienna is not a color value : sienna sienna
667	Property overflow-y doesn't exist in CSS level 2.1 but exists in : auto auto
681	Property overflow-y doesn't exist in CSS level 2.1 but exists in : auto auto

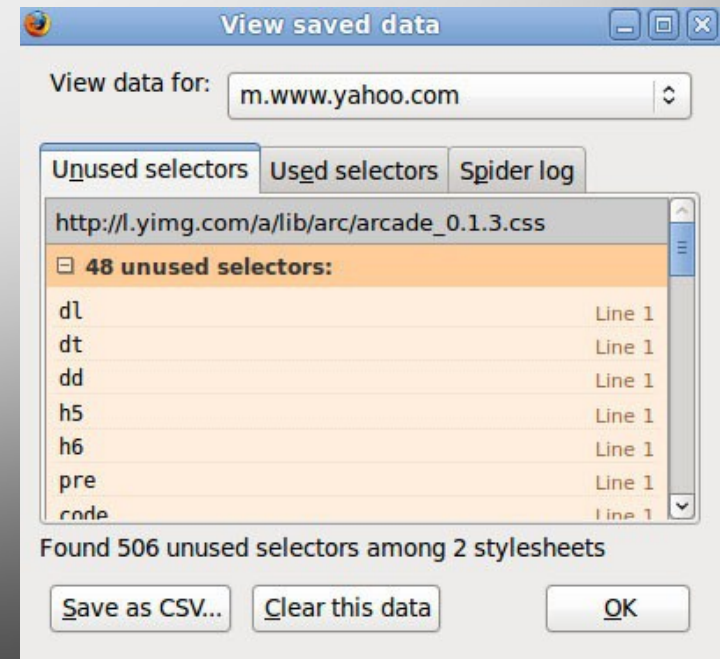
# W3C CSS validátor – platné CSS

## Valid CSS information

```
.referencetooltip {  
  position : absolute;  
  list-style : none;  
  list-style-image : none;  
  opacity : 0;  
  font-size : 10px;  
  margin : 0;  
  z-index : 5;  
  padding : 0;  
}
```

# Redundantní CSS

- Řeší pouze nevyužité selektory, nikoli překrývání stylů
- Dust-Me Selectors
- CSS Redundancy Checker



# Achecker

- Nástroj na kontrolu přístupnosti webu
- Prochází HTML i CSS
- <http://achecker.ca>

**Check Accessibility By:**

**Web Page URL** **HTML File Upload** **Paste HTML Markup**

Address:

Check It

**Options**

☐ Enable HTML Validator ☐ Enable CSS Validator ☐ Show Source

**Guidelines to Check Against**

☐ BITV 1.0 (Level 2) ☐ Section 508 ☐ Stanca Act

☐ WCAG 1.0 (Level A) ☐ WCAG 1.0 (Level AA) ☐ WCAG 1.0 (Level AAA)

☐ WCAG 2.0 (Level A) ☒ WCAG 2.0 (Level AA) ☐ WCAG 2.0 (Level AAA)

**Report Format**

☒ View by Guideline ☐ View by Line Number

# Achecker - výstup

**Check 213:** input element, type of "text", has no text in label.

**Repair:** Add text to the input element's associated label that describes the purpose or function of the control.

✖ **Line 110, Column 6:**

```
<input type="text" value="" name="s" style="width: 83%;" />
```

✖ **Line 129, Column 3:**

```
<input type="text" name="log" id="user_login" class="input" value="" tabindex="10" />
```

✖ **Line 456, Column 12:**

```
<a href="http://guildwars2.cz/category/feature-pack/" title="Zobrazit všechny příspěvky z rubrik ..."
```

Fixed size example: color contrast example

Real size example (9.75 points): color contrast example

CSS rules for the element:

External CSS (<http://guildwars2.cz/wp-content/themes/gw2czSylvari/style.css>):

```
.metadata-footer a:visited{
    text-decoration:none;
    color:#9d9d9d;
    cursor:hand;
}
```

```
.post{
    position:relative;
    background-color:#FFFFFF;
    background-repeat:no-repeat;
    background-position:top center;
    margin:0;
    margin-top:2px;
    padding:11px;
```