

Web accessibility is not an option

Xavier Dutreilh

DjangoCon Europe 2015

What is the problem?

Have you ever
considered your life
without the web?

And all the small
opportunities that it
brought to you?

It is unlikely that you
have, is it not?

Still, the web played a
big part in your life
and shaped you.

And today, you may
not see any issue
with the web.

Still, these issues
exist and are very
real to many people.

Because we design
websites for non-
disabled people.

And we do it at the
expense of people
with disabilities.

So, let me tell you a few things about web accessibility.

What do you mean
by web accessibility?

It is the inclusive
practice of removing
barriers for people
with disabilities.

So, it ensures that everyone has equal access to information and functionality.

No matter their level
of disability.

What do you mean
by disability?

It is the consequence
of an impairment.

An impairment is
present from birth or
acquired later.

An impairment is
progressive or non-
progressive.

An impairment may
be visual, hearing,
motor or cognitive.

If visual, it may be
blindness, low vision
or color-blindness.

If hearing, it may be
deafness or hard-of-
hearing.

If motor, it may be
limited dexterity or
loss of limbs.

If cognitive, it may be
learning issues or
memory loss.

So, how do you do
web accessibility?

Provide appropriate
alternative text to
non-text content.

```
<!-- bad -->
```

```

```

```
<!-- bad -->
```

```

```

```
<!-- good -->
```

```

```

```
<!-- good -->
```

```

```

Provide appropriate document structure with semantic tags.

```
<body>  
  <header>some header</header>  
  <nav>some navigation</nav>  
  <main>  
    <article>some article</article>  
  </main>  
  <footer>some footer</footer>  
</body>
```



```
<article>  
  <h1>some title</h1>  
  <h2>some subtitle</h2>  
  <p>some paragraph</p>  
  <ul>some list</ul>  
  <h2>some other subtitle</h2>  
  <p>some other paragraph</p>  
</article>
```

Provide appropriate
column headers for
data tables.

```
<table>
  <thead>
    <tr>
      <th>some header</th>
      <th>some other header</th>
    </tr>
  </thead>
  ...
</table>
```

Provide appropriate validation and error recovery to forms.

```
<form method="post">
  <label for="name">Name</label>
  <input type="text" name="name"
        id="name" required>
  ...
  <button type="submit">
    Submit your proposal
  </button>
</form>
```

Provide appropriate
link description to
links on the page.

```
<!-- bad -->
```

```
<a href="/articles/">
```

```
Click here
```

```
</a>
```

```
<!-- good -->  
<a href="/articles/">  
  Articles  
</a>
```



```
<!-- good -->  
<a href="/articles/">  
  See all articles  
</a>
```

Caption and provide transcripts for audio and video media.

“Just watch this talk
from PyCon if you
need an example.”

Ensure accessibility
of PDF files and other
non-HTML content.

“Just implement the
same guidelines as
for the web.”

Allow users to skip
repetitive elements
on the page.

```
<body>
  <a href="#content">
    Skip to main content
  </a>
  <header>some header</header>
  <nav>some navigation</nav>
  <main id="content">
    <article>some article</article>
  </main>
  <footer>some footer</footer>
</body>
```

```
<body>
  <a href="#content">
    Skip to main content
  </a>
  <header>some header</header>
  <nav>some navigation</nav>
  <main id="content">
    <article>some article</article>
  </main>
  <footer>some footer</footer>
</body>
```


Do not rely on color
alone to convey
information.

```
<!-- bad -->
```

```
<span class="label green"></span>
```

```
<!-- good -->  
<span class="label green">  
    some label  
</span>
```

Make sure content is
clearly written and
easy to read.

“Write explicit, clear,
simple and positive
sentences.”

“And use clear fonts,
relative units and
strong contrasts.”

“And seriously, avoid
blinking text or
moving it at all.”

Make browser-side
JavaScript code
accessible.

“Just avoid device-
dependent event
handlers.”

Design to standards
to avoid hacks and
inaccessible pages.

“Avoid inline styles,
deprecated tags and
missing attributes.”

Where do we go from
there, then?

Document yourself
about impairment
and disability.

Talk with people with
disabilities and listen
to them.

Read guidelines like
WCAG, ATAG, UUAAG
and ARIA.

Try accessibility tools
on your computer or
your smartphone.

Validate your web
applications with
WAVE.

Audit your pages with
Chrome Accessibility
Developer Tools.

Finally, provide your
skills to accessibility
organizations.

So, in conclusion?

Web accessibility is
not an option.

And so are we.

So, let us get to work
because there is a lot
to catch up on.

Thank you!

Xavier Dutreilh

xavier@dutreilh.com

<http://xavier.dutreilh.com/>