Building accessible websites with Wagtail and Django

by: Vince Salvino • CODERed Thibaud Colas • Torchbox

Try Wagtail

wagtail.org

pip install wagtail
wagtail start mysite
cd mysite
pip install -r requirements.txt
python manage.py migrate
python manage.py createsuperuser
python manage.py runserver

-> http://localhost:8000/
Quit the server with CTRL-C.

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The Zen of Wagtail

• Wagtail is not an instant website in a box.
• Always wear the right hat.
• A CMS should get information out of an editor's head and into a database, as efficiently and directly as possible.
• The best user interface for a programmer is usually a programming language.

Wagtail sites with no accessibility issues

Distribution of alt text scores

Accessibility in the CMS

Accessibility improvements

Website accessibility scores in the Python web

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Drafts

Best layout, preferred color scheme
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1h tutorial: 
docs.wagtail.org/en/latest/getting_started/

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Seven steps to a local demo

1. pip install wagtail
2. wagtail start mysite
3. cd mysite
4. pip install -r requirements.txt
5. python manage.py migrate
6. python manage.py createsuperuser
7. python manage.py runserver

QA for accessibility

Use axe-playwright-python which integrates Axe, just like Wagtail does 🌈

```python
from playwright.sync_api import sync_playwright
from axe_playwright_python.sync_playwright import Axe

axe = Axe()
with sync_playwright() as playwright:
    browser = playwright.chromium.launch()
    page = browser.new_page()
    page.goto("https://www.wagtail.org/")
    results = axe.run(page)
    browser.close()
print(results.generate_report())
```

Accessibility built into the CMS

Accessibility checks built into Wagtail

Distribution of alt text scores

Website accessibility scores in the Python web

Scores are consistent over time, room for improvement on all fronts. Wagtail websites consistently have the best score
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Research Question?

Background

- Background Detail One
- Background Detail Two
- Background Detail Three
- Background Detail Four

Method

- Method Detail One
- Method Detail Two
- Method Detail Three

Accessibility laws in the USA and worldwide

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Accessibility improvements in progress

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Figure 1

Accessibility in the CMS

Accessibility laws in the USA and worldwide

Accessibility improvements in progress

Figure 2

It’s a concern for all sites

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