IA AS INCLUSIVE DESIGN

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http://bit.ly/inclusiveIA

Accessibility is important.

Accessibility can feel fraught,
and that’s okay.

>700 lawsuits in the US in 2017 over inaccessible websites.

ADA Title III 2017 Report

15% of people have a disability.

WHO World report on accessibility

Only 0.02% of our visitors use IE6 - 8.

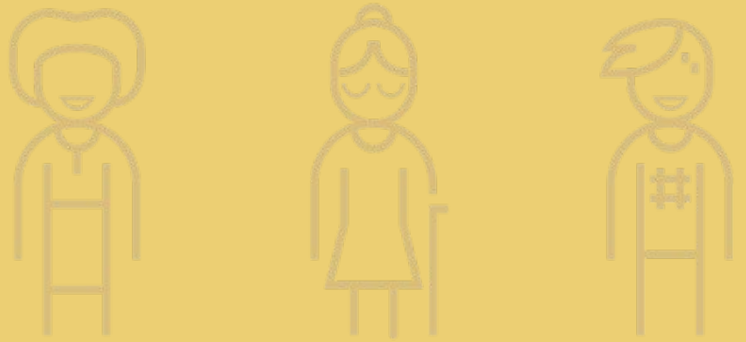
Supporting legacy browsers increases development time by at least 30%.

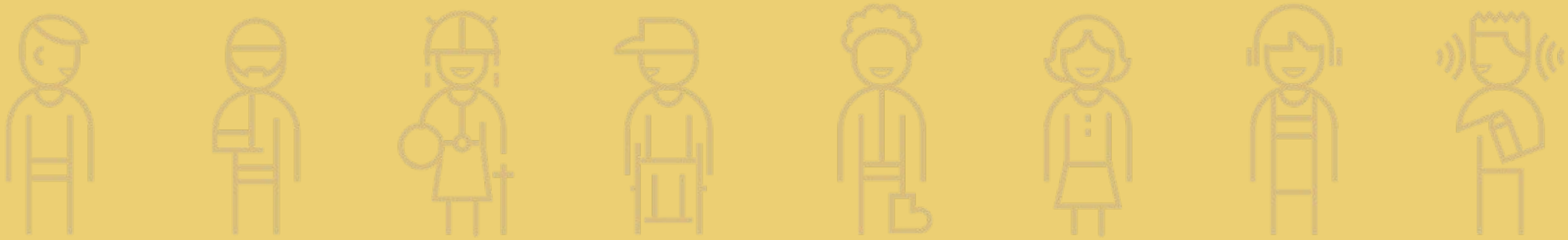
We do it all the time.

But The Client Wants IE 6 Support!

It’s the right thing to do.

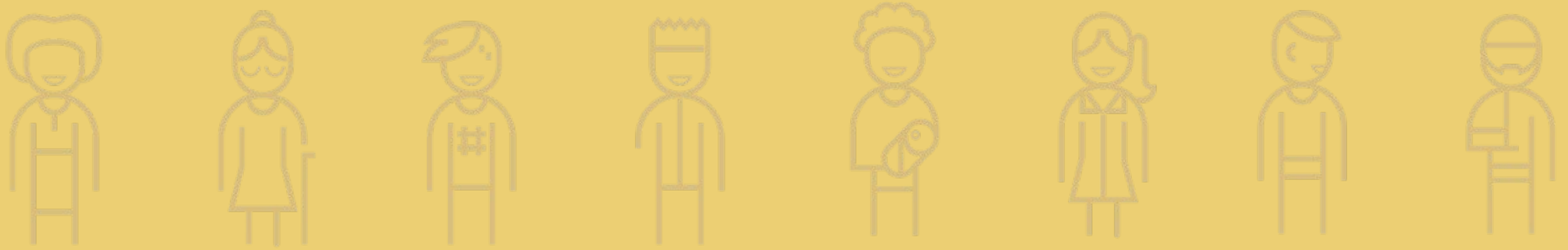
Anne Gibson’s “An Alphabet of Accessibility” (PDF)





Inclusive design is the method. Accessibility is an outcome.

Microsoft Inclusive Design resources



Accessibility is important.

Accessibility is important

~~for other people.~~

Bad news:

IA is an accessibility problem.

Created by Akshar Pathak
from the Noun Project

Broad, shallow navigation performs better in general.

Hochheiser - Revisiting breadth vs. depth in menu structures for blind users of screen readers

Blind users need 8x longer to accomplish a task when navigation is deep.

Nogueira et al - Comparing sighted and blind users task performance in responsive and non-responsive web design

Half the problems encountered by dyslexic users are IA problems.

Freire - Empirical results from an evaluation of the accessibility of websites by dyslexic users

Common IA issues are barriers to access.

Ramakrishnan – “Non-visual web browsing: Beyond web accessibility"

Bigham – “The effects of ’not knowing what you don’t know’ on web accessibility for blind web users (PDF)

Lazar – What frustrates screen reader users on the web: A study of 100 blind users (PDF)

Good news:
Accessibility is an IA problem.

Created by Aleshar Pathak
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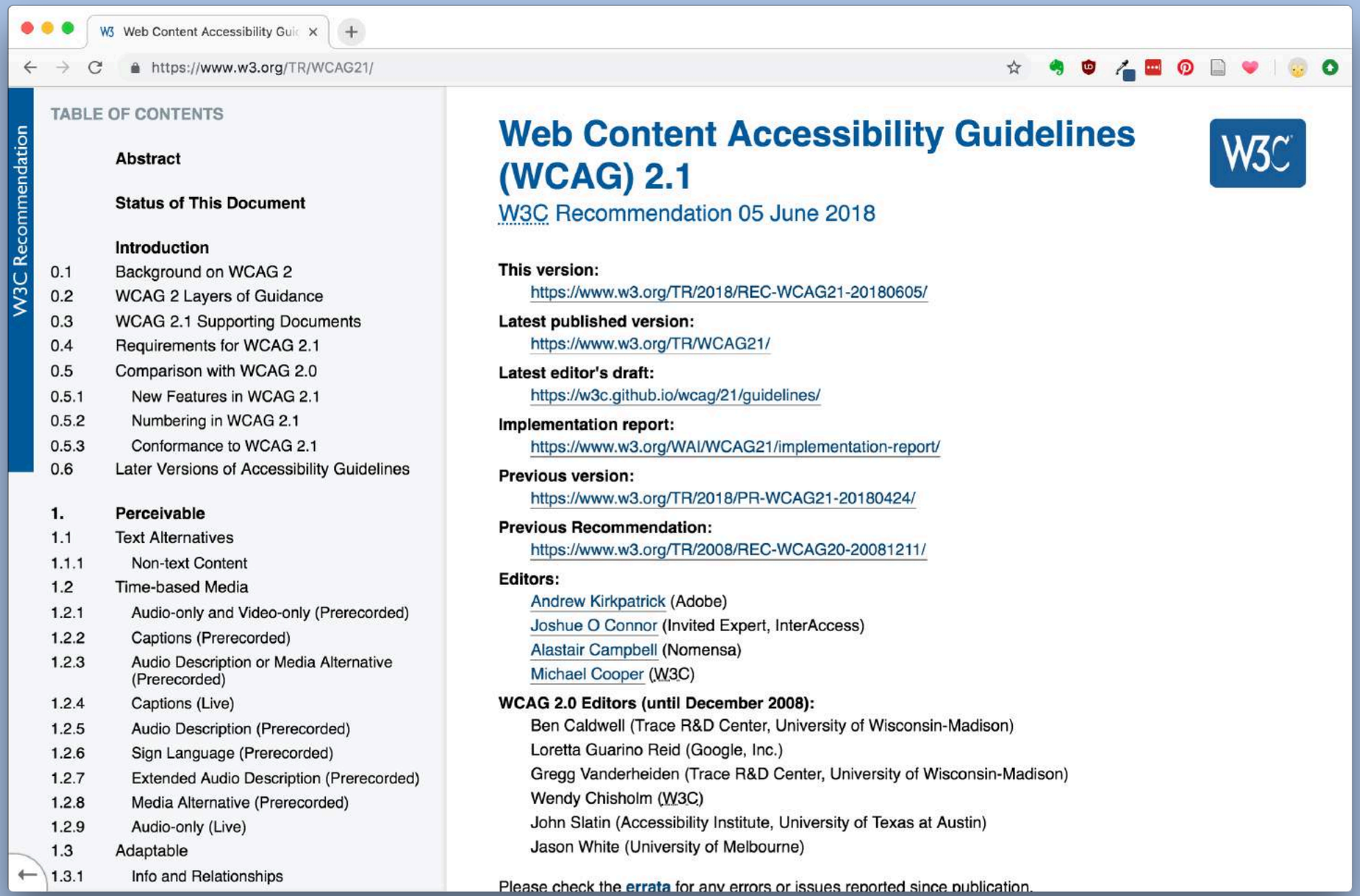
Web Content Accessibility Gui
https://www.w3.org/TR/WCAG21/
W3C Recommendation
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Web Content Accessibility Guidelines (WCAG) 2.1
W3C Recommendation 05 June 2018
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Latest editor's draft:
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https://www.w3.org/WAI/WCAG21/implementation-report/
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Wendy Chisholm (W3C)
John Slatin (Accessibility Institute, University of Texas at Austin)
Jason White (University of Melbourne)
Please check the errata for any errors or issues reported since publication.

Simple, if not always easy:
“Provide captions for all prerecorded media.”

WCAG 2.1 guideline for captions

Complex, strategic IA task:
"When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined."

WCAG 2.1 guideline for meaningful sequence

Adherence to standards is a poor predictor of usability.

Power - Guidelines are only half of the story: accessibility problems encountered by blind users on the web

Freire - Empirical results from an evaluation of the accessibility of websites by dyslexic users

Automated tools can check against 30% of standards.

Pa11y

Frameworks help, they don’t do it for you.

Ethan Marcotte - Accessibility is not a feature

Include people with access needs in your research, but also use what we know.

The Value of Involving People with Disabilities in User Research

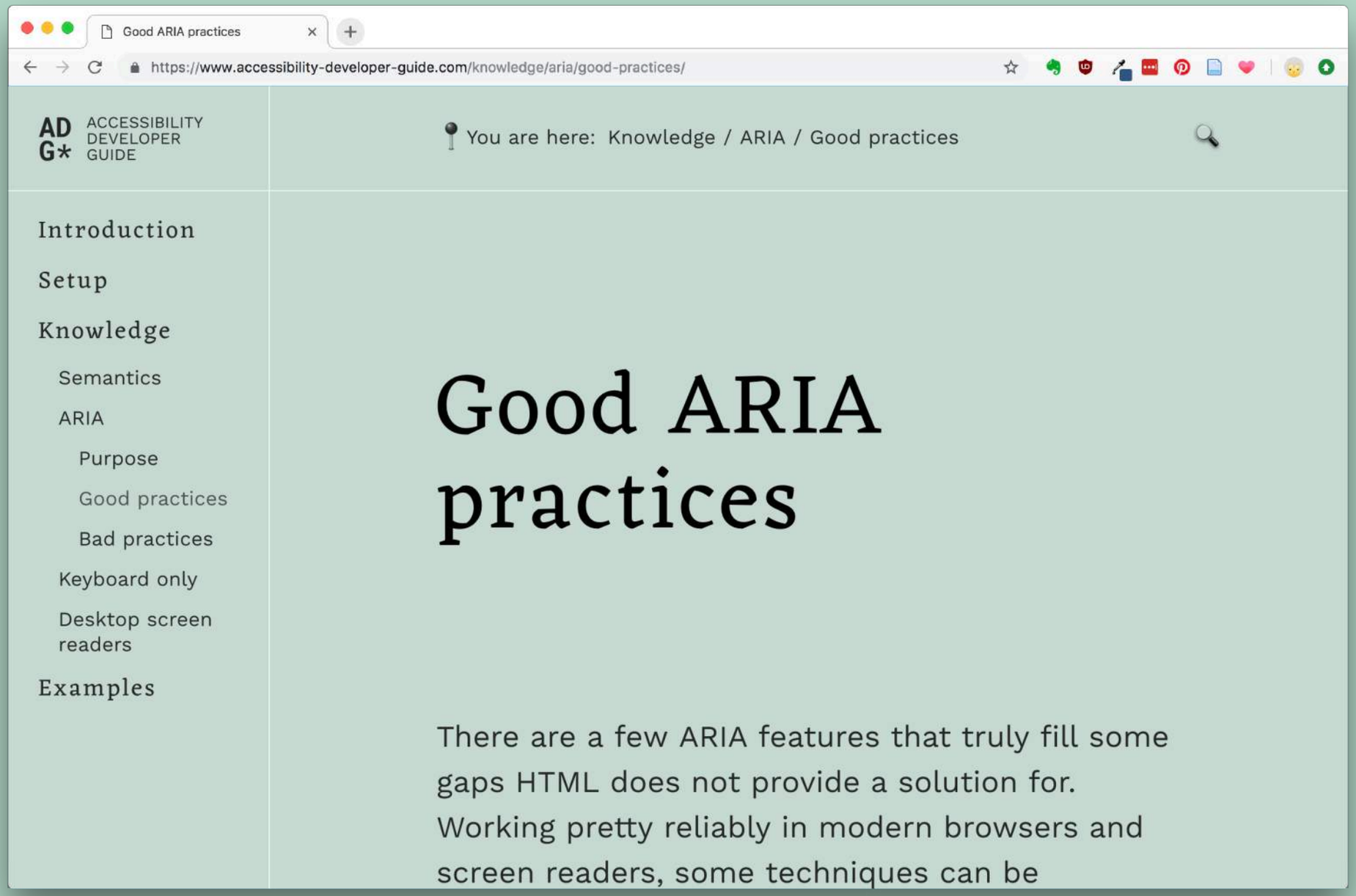
Running research sessions with people with disabilities

Tips For Conducting Usability Studies With Participants With Disabilities

4 challenges to be inclusive in your IA:

1. Do the training your developers do.

(If you don't have developers of your own, store-bought is fine: Udacity - Web Accessibility)



Accessibility Developer Guide

2. Read the guidelines.

WCAG guidelines explained part 1
WCAG guidelines explained part 2

3. Find one thing to add to your IA artifacts.

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from the Noun Project

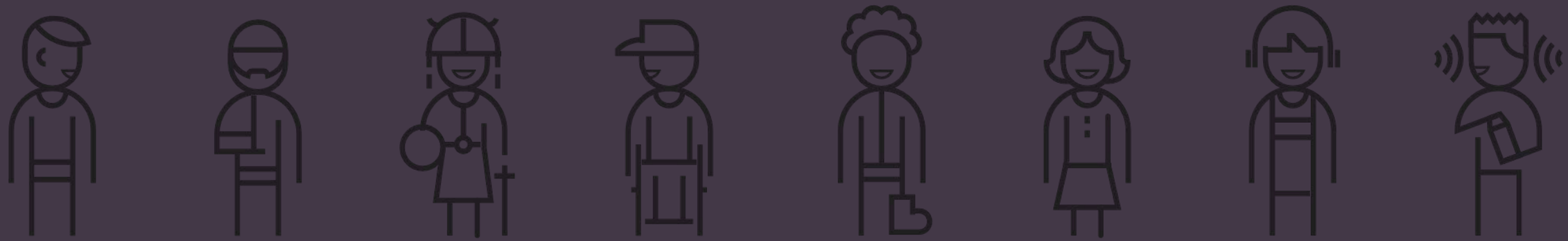
4. Practice saying, “This is an accessibility issue.”

Created by Yuluck
from the Noun Project

Accessible IA is good IA.

Red Route
13 Upper O'Connell Street
City Sightseeing shop
Buy your tickets here
Nassau Street
Leinster Street
National Art Gallery
Merrion Square
St. Stephen's Green
Pearse Street
College Green
Irish Whiskey Museum
Dame St / Temple Bar
Dame St. / Dublin Castle
Christ Church Cathedral
St. Patrick's Cathedral
High Street
Guinness Storehouse
Pearse Lyons Distillery
Royal Hospital Kilmainham
Kilmainham Gaol
Memorial Gardens
Heuston Station
Parkgate Street
Phoenix Park
Parkgate Street
National Museum of
Decorative Arts & History
Arran Quay
Smithfield
Bachelor's Walk
Parnell Square
1
3
4
5
6
7
7a
8
9
10
11
12
13
14
14a
15
16
16a
17
18
19
19a
20
21
21a
22
23
Blue Route
1b
2b
3a
3b
4b
12a
21b
21d
21e
24
21g
Abbey Street
Abbey St./Abbey Theatre
EPIC The Irish
Emigration Museum
Samuel Beckett bridge
Cardiff Lane
Teeling Whiskey Distillery
St.Michan's Church
Brian Boru Pub
Glasnevin Cemetery
Croke Park
Mountjoy Square
City Sightseeing

1
1b
2b
3o
7o
21b
21o
21
22
9
8
10
13
11
12
12o
3
4
5
6
7
Official Agent
Official Agent
IFSC
EPIC
GPO
TRINITY COLLEGE
Temple Bar
DAME ST
LORD EDWARD ST
DAWSON ST
ABBEY ST
MARY ST
MARY'S LANE
MARY'S ABBEY
ARAN QUAY
USHERS QUAY
MERCHANT'S QUAY
ESSEX QUAY
WELLINGTON QUAY
ASTON QUAY
GEORGES QUAY
CITY QUAY
TOWNSEND ST
HANOVER ST
TALBOT ST
SHERIFF ST
MAYOR ST
SIR JOHN ROGERSONS QUAY
JEAMES JOHNSTON
KING ST NTH
BRUNSWICK ST NTH
BENBURB ST
BRIDGEFOOT ST
VICAR ST.
THE LIBERTIES
THE COOMBE
ST LUKES AVE
NEWMARKET
MALPAS ST
LONG LANE
NEW ST
NEW BRIDE ST
KEVIN ST
COFFE ST
STEPHEN ST UPR
STEPHEN ST LWR
LIBRARY
DUBLIN INSTITUTE OF TECHNOLOGY
ST PATRICKS CATHEDRAL
CHRISTCHURCH CATHEDRAL
DUBLIN CASTLE
WERBURGH ST
FRANCIS ST
PATRICK ST
PLUNKETT
PARLIAMENT
ST STEPHENS GREEN
ST STEPHENS GREEN SOUTH
ST STEPHENS GREEN WEST
ST STEPHENS GREEN NTH
MANSION HOUSE
NATIONAL GALLERY
MERRION SQ NORTH
MERRION PLACE
MERRION ST UPPER
MOUNT ST UPPER
MOUNT ST LWR
GRAND
HOLLES ST
HARCOURT ST
CHARLEMONT PLACE
CHARLEMONT ST
CHARLEMONT TERRACE
HATCH ST UPR
HATCH ST LWR
FITZWILLIAM ST
WICKLOW ST
YORK ST
SOUTH GREAT GEORGES ST
GREAT GEORGES ST
CLARENDON ST
GRAFTON ST
DAWSON ST
NASSAU ST
KILDARE ST
BLACKHALL PLACE
QUEEN ST
CHURCH ST
CAROL ST
PARNELL ST
HENRY ST
LITTLE MARY ST
LITTLE MARY'S LANE
CUCKOO LANE
ABBEY ST LWR
FOLEY ST
AMIENS ST
MATER ST
CONNOLLY ST
CAMDEN ST
CAMDEN ROW
CAMDEN PLACE
CAMDEN ST LWR
CAMDEN ST UPR



IA + Accessibility =
Better experiences for everyone

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