



Cabinet Office

Matt Hobbs

Head of Frontend, Lead Developer

Government Digital Service

@TheRealNooshu

**Let's take this
offline**

“Gartner predicts that by 2020 PWAs will replace 50% of consumer-facing apps”

GDS

INNOVATION

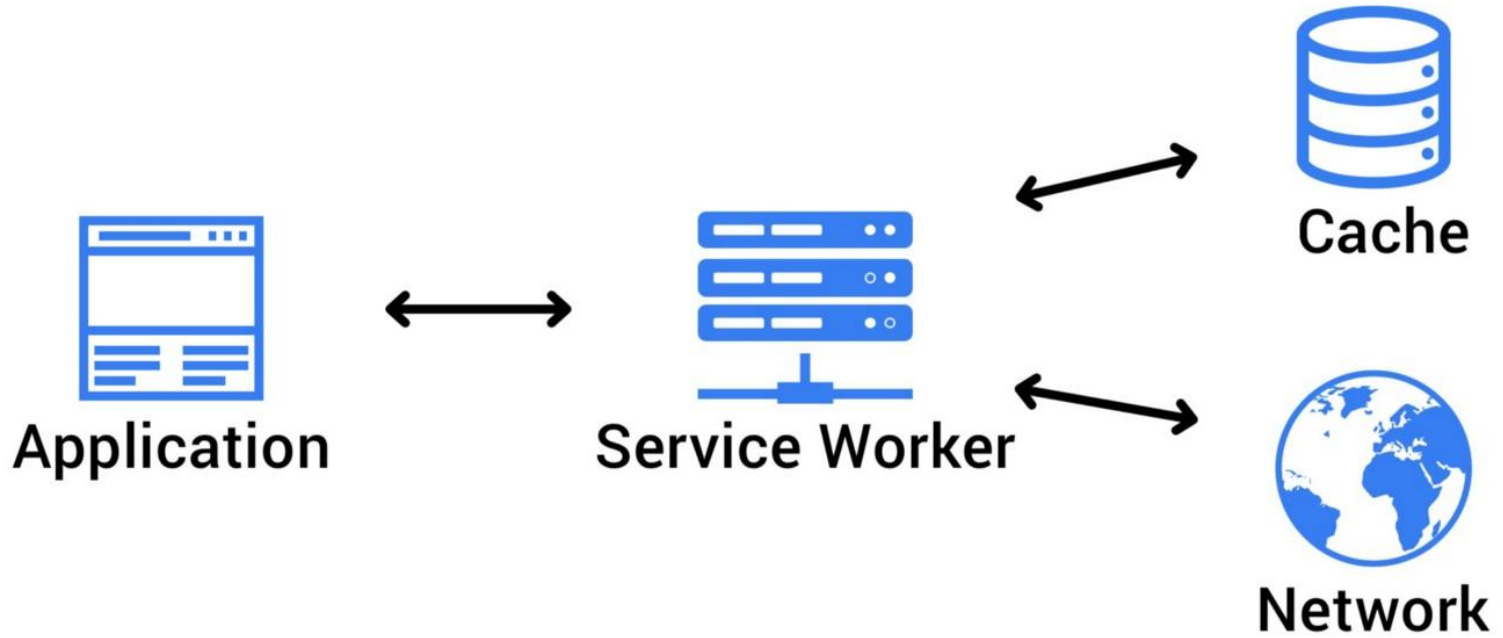
Cross-Government
Design Meeting #27
On Innovation

1 - Web App Manifest

```
1 {
2   "short_name": "Maps",
3   "name": "Google Maps",
4   "icons": [
5     {
6       "src": "/images/icons-192.png",
7       "type": "image/png",
8       "sizes": "192x192"
9     },
10    {
11      "src": "/images/icons-512.png",
12      "type": "image/png",
13      "sizes": "512x512"
14    }
15  ],
16  "start_url": "/maps/?source=pwa",
17  "background_color": "#3367D6",
18  "display": "standalone",
19  "scope": "/maps/",
20  "theme_color": "#3367D6"
21 }
```

2 - HTTPS

3 - Service Worker



Offline

Documentation

BETA This is a new service – your [feedback](#) will help us to improve it.

[Get started](#) [Styles](#) [Components](#) [Patterns](#) [Community](#)

Design your service using GOV.UK styles, components and patterns

Use this design system to make your service consistent with GOV.UK. Learn from the research and experience of other service teams and avoid repeating work that's already been done.

[Get started](#) 

Styles

Make your service look like GOV.UK with guides for applying layout, typography, colour and images.

Components


Save time with reusable, accessible components for forms, navigation, panels, tables and more.

Patterns

Help users complete common tasks like entering names and addresses, filling in forms and creating accounts.

Demo 1: Passive

<http://bit.ly/gukds-passive>

 **GOV.UK** Design System

Q Search Design System Menu ▾

PREVIEW This is a preview of the [offline-experiment-passive](#) branch for the [Design System](#).

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Styles

Make your service look like GOV.UK with **OFFLINE**

GDS

Offline detected

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[Browse patterns](#)

Community

The GOV.UK Design System is for everyone, with a strong community sitting behind it. It brings together the latest research, design and development from across government to make sure it's representative and relevant for its users.








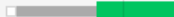










You can contribute to the Design System by:

OFFLINE

Workbox Precaching

```
1 workbox.precaching.precacheAndRoute([
2   {
3     "url": "assets/images/govuk-apple-touch-icon-152x152.png",
4     "revision": "40846d46aa37232e2b35065769ce567c"
5   },
6   {
7     "url": "components/button/default/index.html",
8     "revision": "3e7d9063a8cdfbb612d300350011eee6"
9   },
10  {
11    "url": "patterns/step-by-step-navigation/index.html",
12    "revision": "b0b3f137f99387adc001154949056eb6"
13  }
14  // ...
15 ], {});
```

Download size

	index.html?_WB_REVISION_=95fb69629... offline-documentation-passive.netlify.com/style...	h2	fetch	750 B	1.2 KB	
	index.html?_WB_REVISION_=c197ea053... offline-documentation-passive.netlify.com/style...	h2	fetch	780 B	1.3 KB	
	index.html?_WB_REVISION_=30a1e28d... offline-documentation-passive.netlify.com/style...	h2	fetch	754 B	1.2 KB	
	index.html?_WB_REVISION_=c212c5b5... offline-documentation-passive.netlify.com/style...	h2	fetch	778 B	1.2 KB	
	index.html?_WB_REVISION_=6a3fe2b34... offline-documentation-passive.netlify.com/style...	h2	fetch	794 B	1.3 KB	
	index.html?_WB_REVISION_=ddbdb467... offline-documentation-passive.netlify.com/style...	h2	fetch	805 B	1.4 KB	
	index.html?_WB_REVISION_=afab6a06b... offline-documentation-passive.netlify.com/style...	h2	fetch	778 B	1.5 KB	
	index.html?_WB_REVISION_=1337939e6... offline-documentation-passive.netlify.com/style...	h2	fetch	751 B	1.2 KB	
	?_WB_REVISION_=ff8b7c1328bfdabac0... offline-documentation-passive.netlify.com/com...	h2	fetch	766 B	1.3 KB	

289 requests | 2.0 MB transferred | 6.8 MB resources | Finish: 3.09 s | DOMContentLoaded: 788 ms | Load: 838 ms

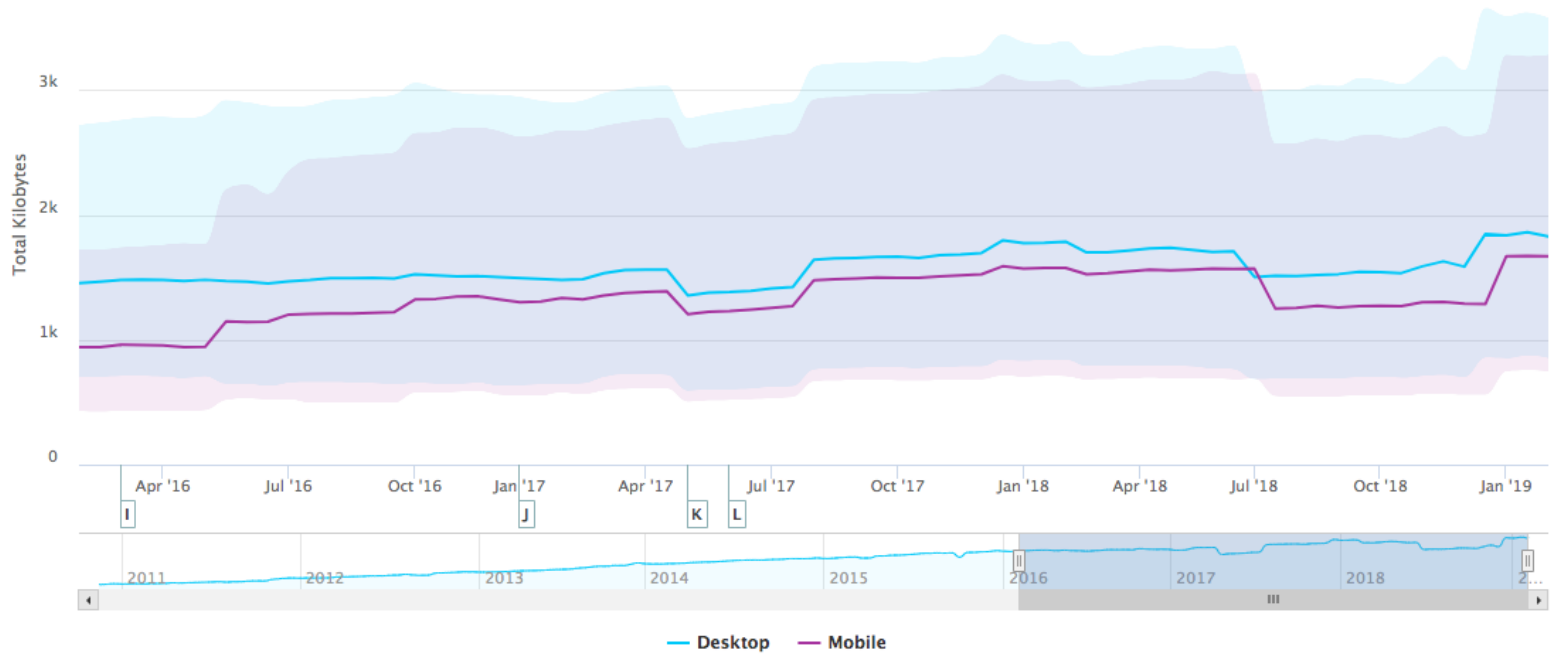
MEDIAN DESKTOP **1828.2 KB** ▲25.8%
MEDIAN MOBILE **1669.0 KB** ▲77.5%

Timeseries of Total Kilobytes

Source: httparchive.org

Zoom **1m** 3m 6m YTD 1y 3y All

From To



— Desktop — Mobile

Demo 2:

Semi-passive

<http://bit.ly/gukds-sp passive>



PREVIEW This is a preview of the [offline-experiment-semi-passive](#) branch for the [Design System](#).

You are currently offline

Here are a list of pages that have been saved for offline viewing:

- [Panel – GOV.UK Design System](#)
The panel component is a visible container used on confirmation or results pages
- [Header – GOV.UK Design System](#)
The GOV.UK header shows users that they are on GOV.UK and which service they are using
- [Fieldset – GOV.UK Design System](#)
Use the fieldset component to group related form inputs
- [Spacing – GOV.UK Design System](#) **OFFLINE**

 free become a member

 sign in

 search

jobs more ▾ UK edition ▾

theguardian

home > home

UK world politics sport football opinion culture business  all

Unable to connect to the Internet

In the meantime, how about a quick crossword?

Quick crossword No 14,188

1	A	L	2	B	I	3	O	N		4	5		6		7
				I			8								
9			N						10						

Across

The
Guardian

1

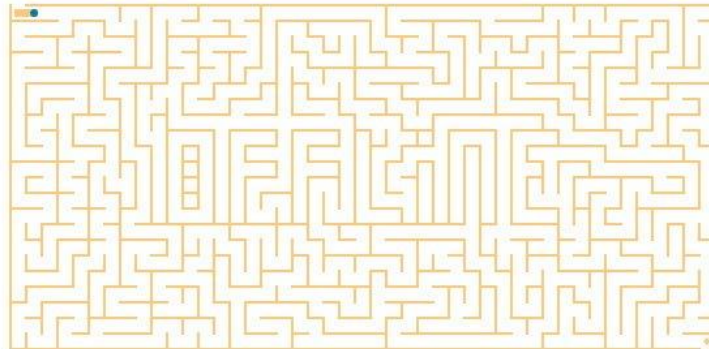
4

You are currently offline

We will try to reconnect you in 15 second(s)...

Reconnect


In the meantime, how about a trip in the offline maze?



00:03

Visited pages

GOV.UK uses cookies to make the site simpler. [Find out more about cookies](#)

 **GOV.UK** Design System

PREVIEW This is a preview of the `offline-experiment-semi-passive` branch for the `Design System`.

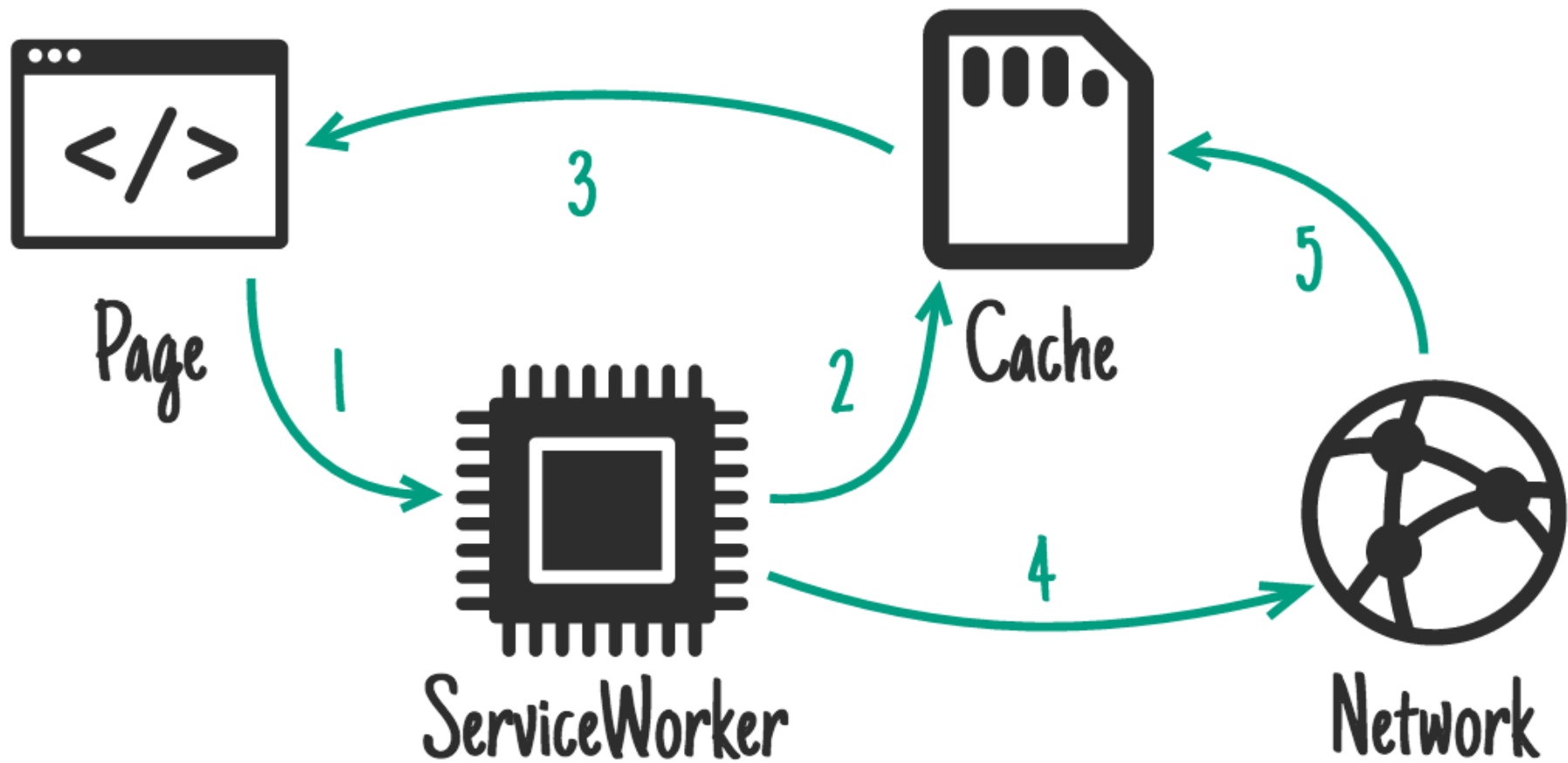
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Use the fieldset component to group related form inputs
- [Spacing – GOV.UK Design System](#)
The Design System uses a responsive spacing scale which adapts based on screen size
- [Page template – GOV.UK Design System](#)
Template combines the boilerplate markup and components needed for a basic GOV.UK page

OFFLINE

Demo 3:

Active


<http://bit.ly/gukds-active>

 **GOV.UK** Design System

Search Design System Menu ▾

PREVIEW This is a preview of the [offline-experiment-active](#) branch for the [Design System](#).

Get started

[Save for reading offline](#) 

The examples in the GOV.UK Design System come with code to make it easy for you to use them in your project.

Get started:

- [prototyping](#)
- [in production](#)

If you've used GOV.UK Elements, GOV.UK Template or the GOV.UK Frontend Toolkit before, you might also find it useful to read the guide on [updating your code](#).

Setup guides

[Prototyping](#)

[Production](#)

How to guides

[Updating from GOV.UK Elements and Frontend Toolkit](#)

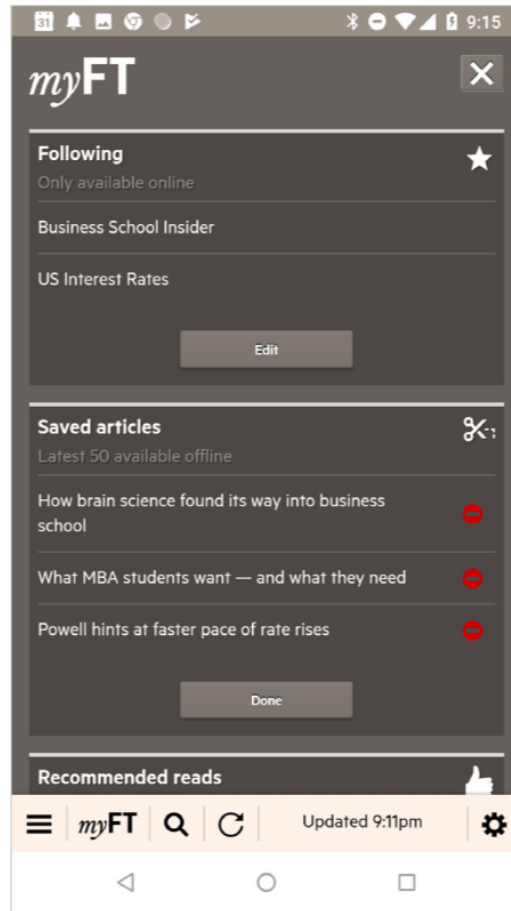
[Making labels and legends headings](#)

[Extending and modifying components in production](#)

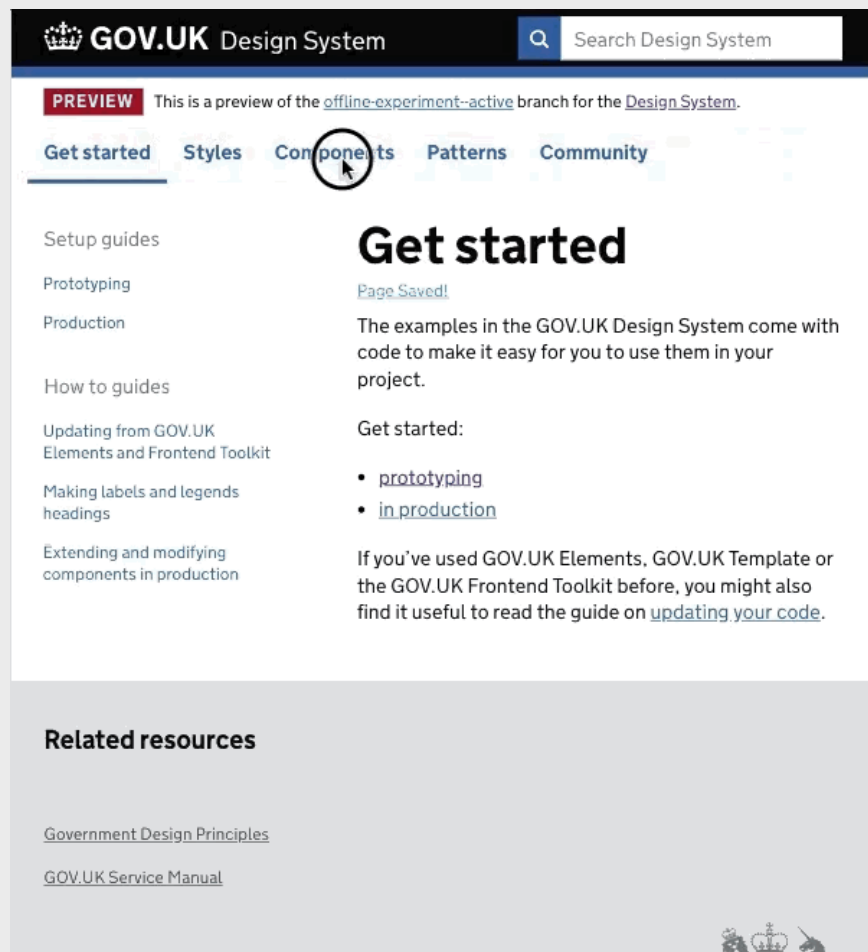
Related resources

[Government Design Principles](#)

[GOV.UK Service Manual](#)



Save & delete offline pages



The screenshot shows the GOV.UK Design System website. At the top, there is a search bar with the text "Search Design System" and a magnifying glass icon. Below the search bar, a red "PREVIEW" banner indicates that the page is a preview of the "offline-experiment-active" branch. The main navigation menu includes "Get started", "Styles", "Components", "Patterns", and "Community". The "Components" link is circled in red. The "Get started" section is highlighted, featuring a "Page Saved!" notification, a paragraph about using examples with code, and a list of links for "prototyping" and "in production". A "Related resources" section at the bottom lists "Government Design Principles" and "GOV.UK Service Manual".

GOV.UK Design System

Search Design System

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[Get started](#) [Styles](#) [Components](#) [Patterns](#) [Community](#)

Setup guides

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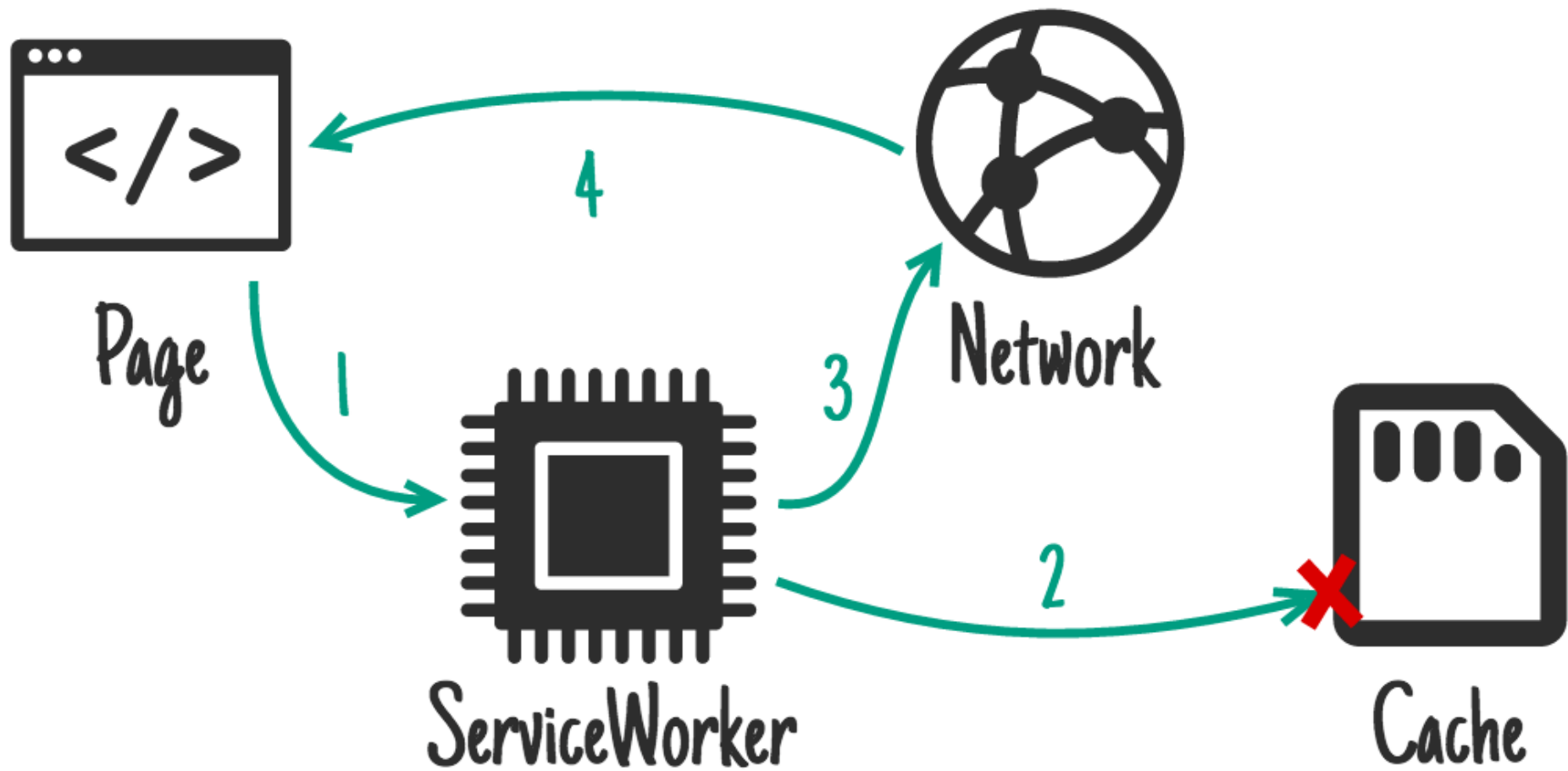
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Related resources

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[GOV.UK Service Manual](#)





iframes saved

GOV.UK Design System

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[Get started](#) [Styles](#) [Components](#) [Patterns](#) [Community](#)

Colour
Images
Layout
Screen size
Common layouts
Building your own layout
Page wrappers
Grid system
Page template
Spacing
Typography

Styles

Layout

[Save for reading offline](#)

Screen size

Design for small screens first using a single-column layout.

Never make assumptions about what devices people are using. Design for different screen sizes rather than specific devices.

The default maximum page width is 1020px, but you can make it wider if your content requires it.

Common layouts

Two-thirds

[Open this example in a new window](#)

Progressive Enhancement

Service Workers 📄 - WD

Method that enables applications to take advantage of persistent background processing, including hooks to enable bootstrapping of web applications while offline.

Usage

% of all users ?

Global

90.06% + 0.27% = 90.33%

U.K.

88.24% + 0.12% = 88.37%

Current aligned Usage relative Date relative Apply filters Show all ?

IE	Edge *	Firefox	Chrome	Safari	iOS Safari *	Opera Mini *	Chrome for Android	UC Browser for Android	Samsung Internet
			71		11.4				4
	17	65	72	12	12.1				8.2
11	18	66	73	12.1	12.2	all	73	11.8	9.2
		67	74	TP					
		68	75						
			76						

The future

[Home](#) > [Passports, travel and living abroad](#) > [Passports](#)

Renew or replace your adult passport

1. Overview

 **The rules for passports, driving, EHIC cards, pet travel and more may change after the UK leaves the EU. [Act now so you can travel as planned.](#)**

It costs £75.50 to renew or replace your passport if you apply online or £85 if you fill out a paper form.



BETA Complete our quick 5-question survey to [help us improve our content](#).

[Service manual](#) > [Technology](#) > Designing for different browsers and devices

Technology

[Give feedback about this page](#)

Designing for different browsers and devices

Published by: [Technology community \(frontend development\)](#)

Last updated: 3 months ago

Page contents:

– [Test for compatibility](#)

– [Browsers to test in](#)

Your service must be universally accessible. This means building it to work on every browser or device that your users access it on.

Feedback

Demos

- “Passive” - <http://bit.ly/gukds-passive>
- “Semi-passive” - <http://bit.ly/gukds-spassive>
- “Active” - <http://bit.ly/gukds-active>



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Thanks!

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