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DevFest

Develop Progressive Web Application on Angular 7

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What is Angular?

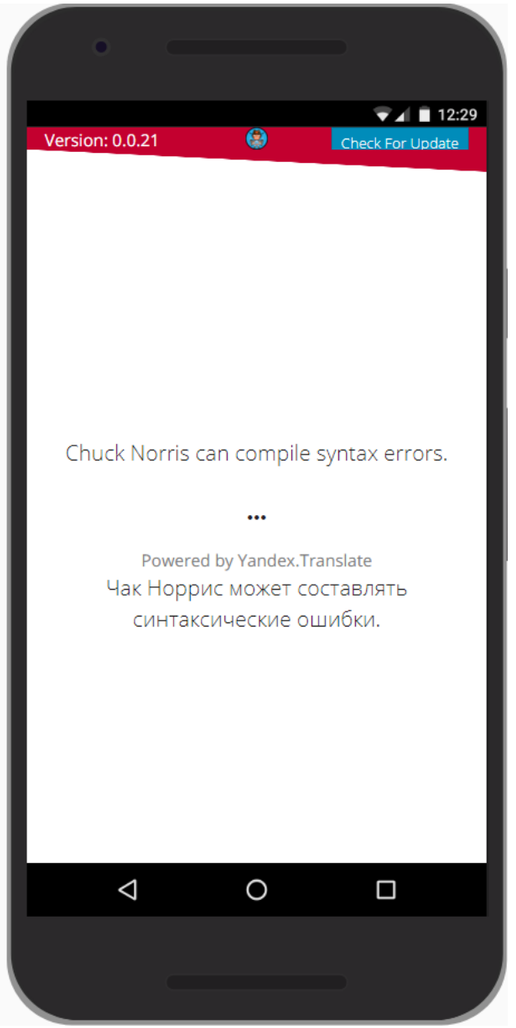
- Cross Platform
- Speed and Performance
- Productivity
- Full Development Story

What is PWA?

Progressive
Responsive
Network Independent
App-Like
Fresh
PWA
Safe
Discoverable
Re-engageable
Installable
Linkable

What is PWA?

HI 00861 0086
GAME OVER
Unable to connect to the Internet
Google Chrome can't display the webpage because your computer isn't connected to th
Internet.


12:29
Version: 0.0.21
Check For Update
Chuck Norris can compile syntax errors.
...
Powered by Yandex.Translate
Чак Норрис может составлять
синтаксические ошибки.

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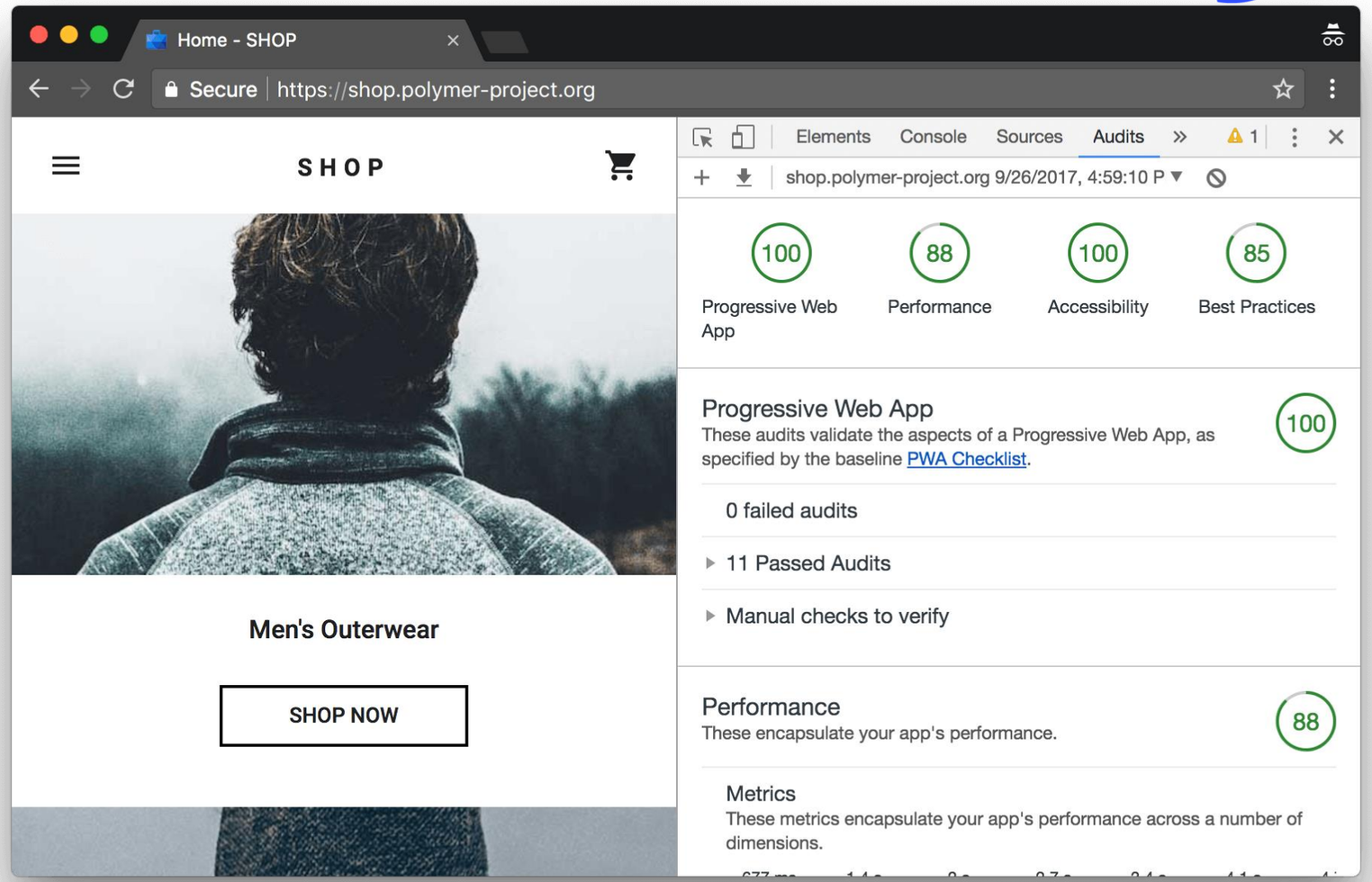
Lighthouse



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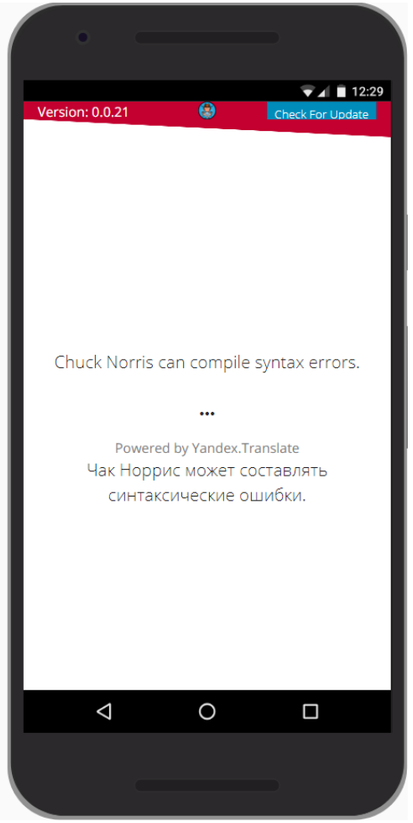
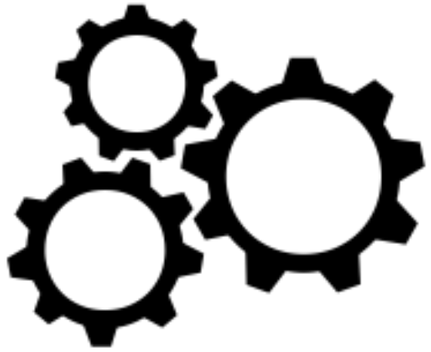
PWA. Key elements

App Shell



Service Worker

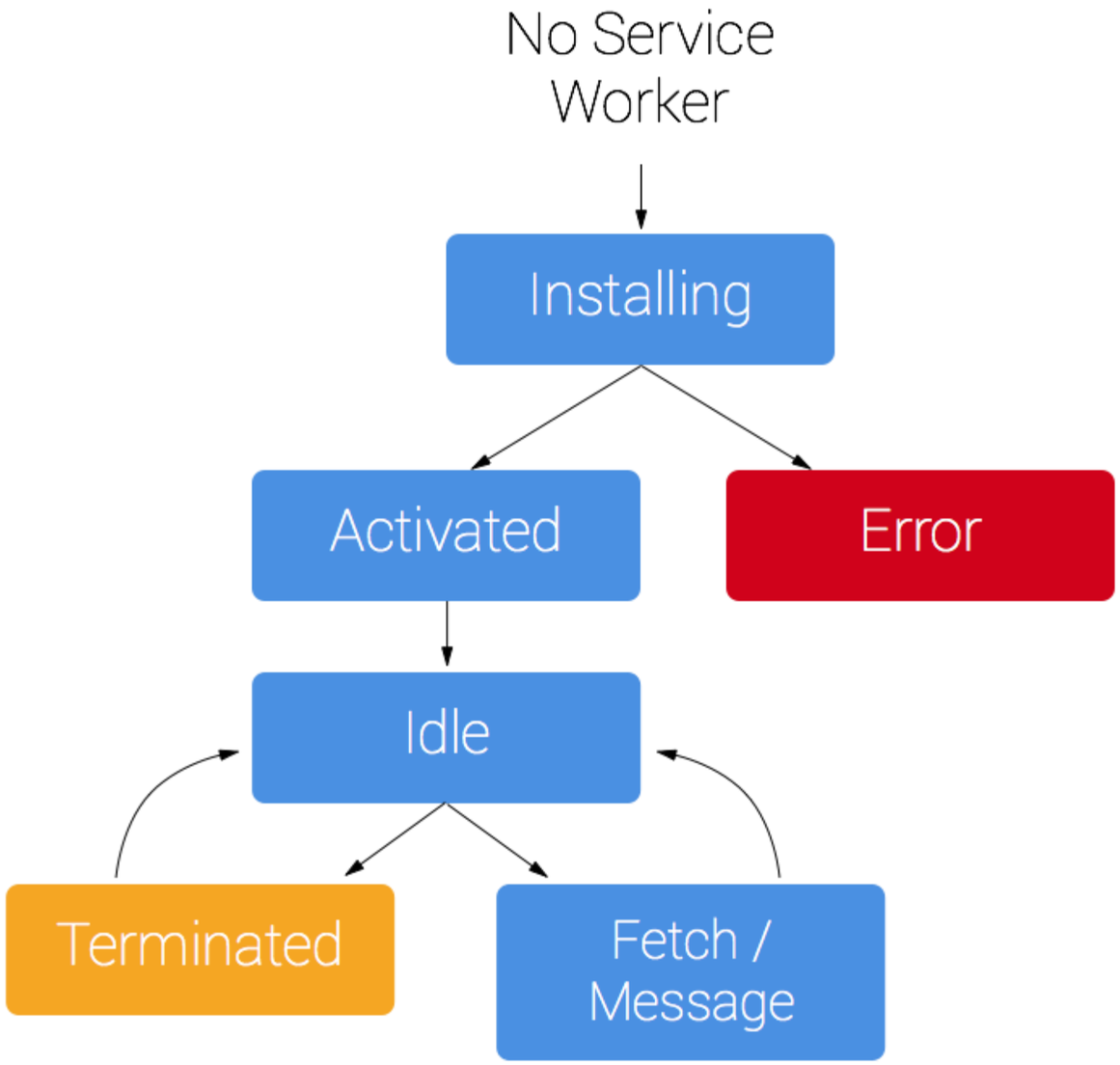


Manifest

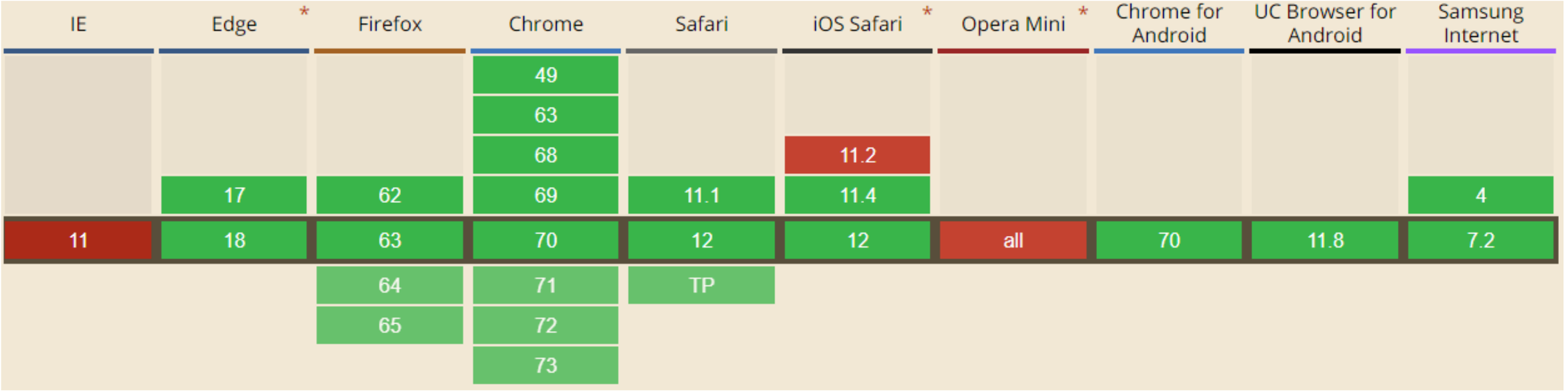
```
{
    "name": "chuckchuck",
    "short_name": "chuckchuck",
    "theme_color": "#1976d2",
    "background_color": "#fafafa",
    "display": "standalone",
    "scope": "/",
    "start_url": "/",
    "icons": [
        {
            "src": "assets/icons/icon-72x72.png",
            "sizes": "72x72",
            "type": "image/png"
        },
        {
            "src": "assets/icons/icon-96x96.png",
            "sizes": "96x96",
            "type": "image/png"
        },
        {
            "src": "assets/icons/icon-128x128.png",
            "sizes": "128x128",
            "type": "image/png"
        },
        {
            "src": "assets/icons/icon-144x144.png",
            "sizes": "144x144",
            "type": "image/png"
        },
        {
            "src": "assets/icons/icon-152x152.png",
            "sizes": "152x152",
            "type": "image/png"
        },
        {
            "src": "assets/icons/icon-192x192.png",
            "sizes": "192x192",
            "type": "image/png"
        },
        {
            "src": "assets/icons/icon-384x384.png",
            "sizes": "384x384",
            "type": "image/png"
        },
        {
            "src": "assets/icons/icon-512x512.png",
            "sizes": "512x512",
            "type": "image/png"
        }
    ]
}
```

Service Worker

- Auto install and activating
- Fast response from cache
- Updates from server



Service Worker



IE	Edge *	Firefox	Chrome	Safari	iOS Safari *	Opera Mini *	Chrome for Android	UC Browser for Android	Samsung Internet
			49						
			63						
			68		11.2				
	17	62	69	11.1	11.4				4
11	18	63	70	12	12	all	70	11.8	7.2
		64	71	TP					
		65	72						
			73						

Installation

- Auto offer installation
- “beforeinstallprompt” event

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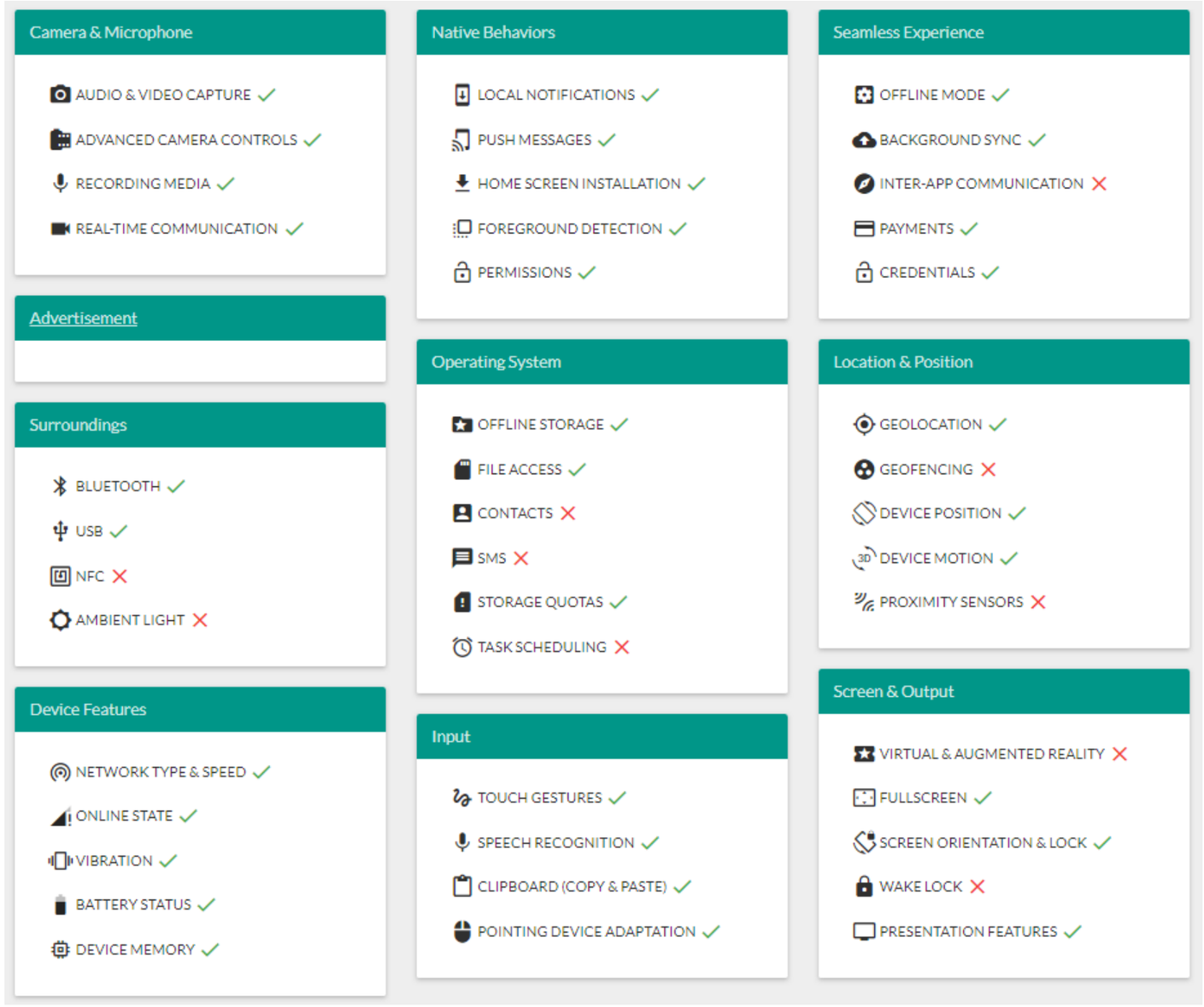
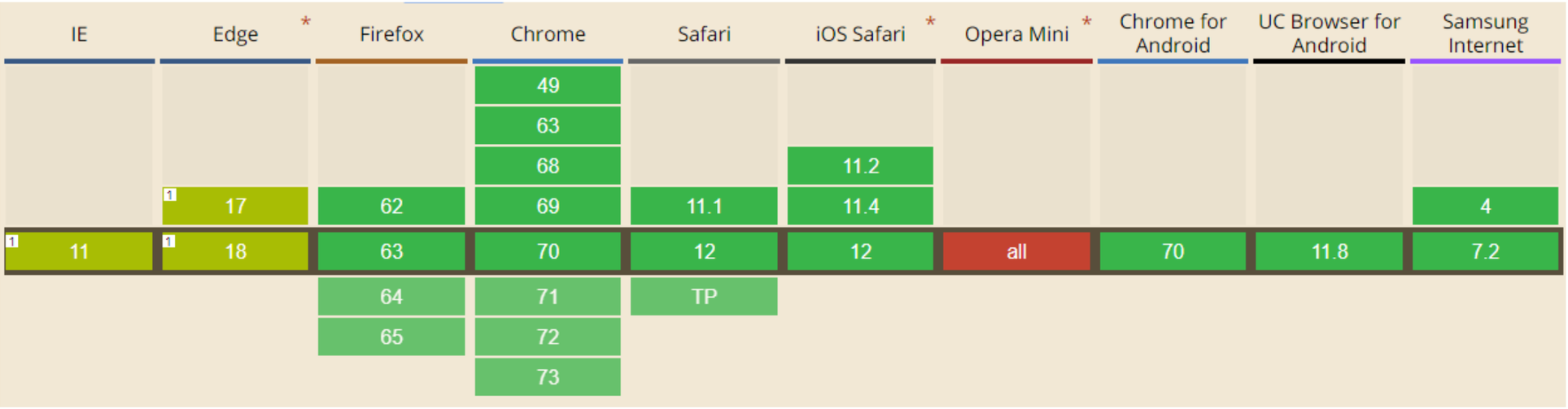
WHATWEBCANDO



Index DB

- Key-value pair NoSQL database
- Large scale storage (up to 20%–50% of hard drive capacity)
- Asynchronous
- Transactions



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Q&A

Better ask Google

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