

# BUILDING AN INCLUSIVE AND TRULY WORLD WIDE WEB

*a lightning talk by Kellee Martins*

# **WHO HAS ACCESS TO THE INTERNET WHO IS EXCLUDED BASED ON NETWORK ACCESSIBILITY AND HOW WE CAN CODE TO CLOSE THE DIGITAL DIVIDE**





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I'll suggest to my kids that MIT will be a  
good place for them to realize their  
dream as well."



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**"WHEN PEOPLE HAVE A CONNECTION TO THE INTERNET, INFORMATION IS AVAILABLE TO GUIDE DECISIONS THAT CAN KEEP THEM SAFE, AND MAKE THEM BETTER OFF. THE INTERNET CAN EDUCATE AND HELP COMMUNICATE."<sup>1</sup>**

<sup>1</sup><https://www.one.org/international/blog/why-connecting-everyone-to-the-internet-could-help-end-extreme-poverty/>

# DIGITAL DIVIDE

Commissioned by  
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# The Inclusive Internet Index 2019

Executive summary

Written by

The Economist INTELLIGENCE UNIT



<sup>2</sup><https://theinclusiveinternet.eiu.com/assets/external/downloads/3i-executive-summary.pdf>

**“MORE THAN HALF OF THE WORLD’S HOUSEHOLDS [ARE] ONLINE”**

**“ON AVERAGE, MEN ARE 24.8% MORE LIKELY TO HAVE ACCESS TO THE INTERNET THAN *women* [AND] *women* RELY MORE HEAVILY ON MOBILE TO GET ONLINE, WITH 61.7% OF *women* SAYING THEY MOST OFTEN CONNECT TO THE INTERNET VIA A MOBILE DEVICE, VERSUS 52.5% OF MEN.”**

**“THE COST OF PREPAID DATA PLANS INCREASED IN 39 OUT OF THE 84 COUNTRIES THAT WERE ASSESSED. AFFORDABILITY IS ALSO DECLINING RELATIVE TO MONTHLY INCOME IN MANY NATIONS, WHICH DISPROPORTIONATELY AFFECTS PEOPLE IN *low-income* COUNTRIES AND *women*, BOTH OF WHOM ARE MORE RELIANT ON MOBILE DEVICES AS THEIR PRIMARY MEANS OF ACCESSING THE INTERNET.”**

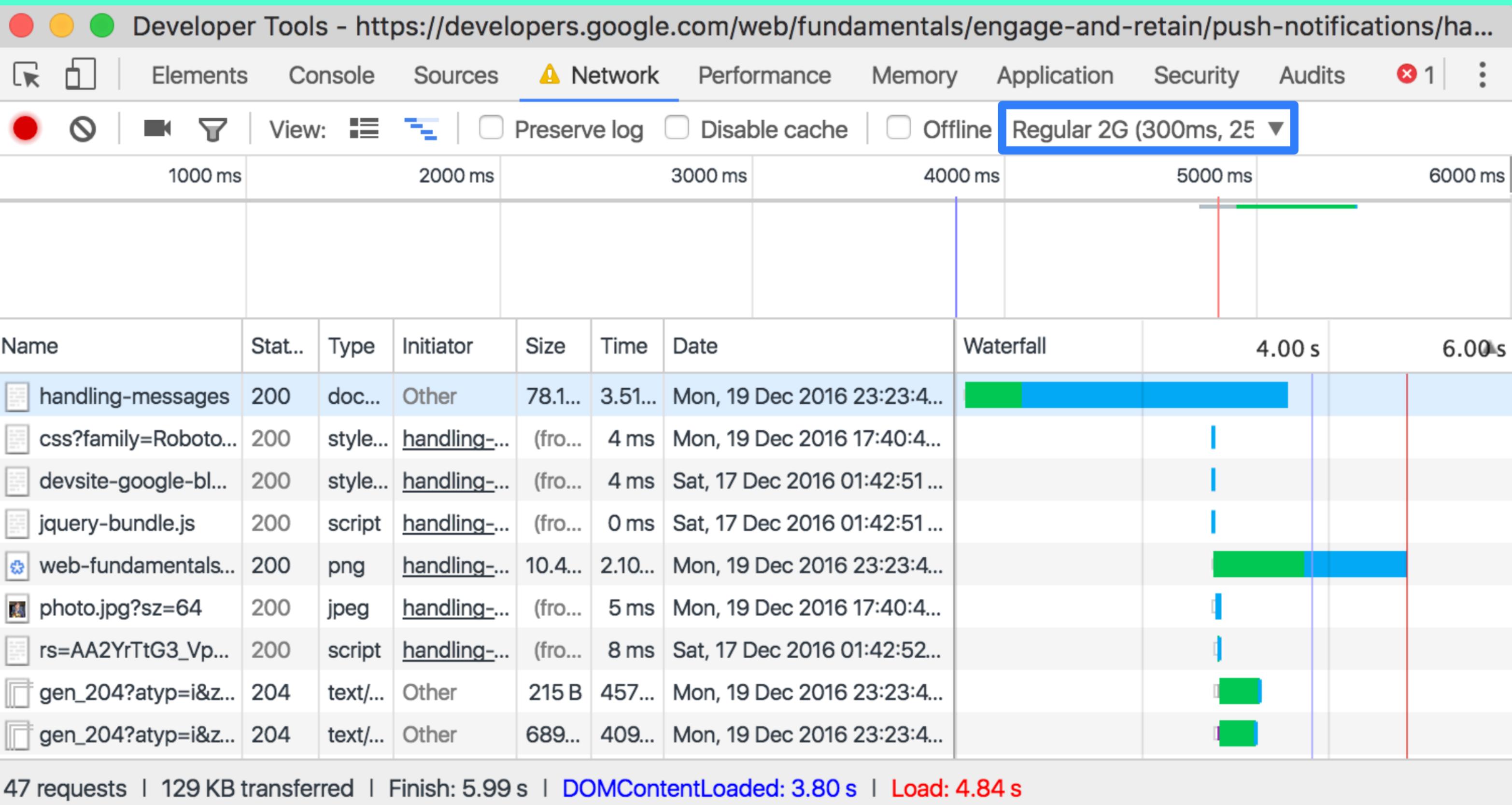
# THE COST OF JAVASCRIPT

2019



@adduosmani

<sup>3</sup><https://medium.com/@adduosmani/the-cost-of-javascript-in-2018-7d8950fbb5d4>



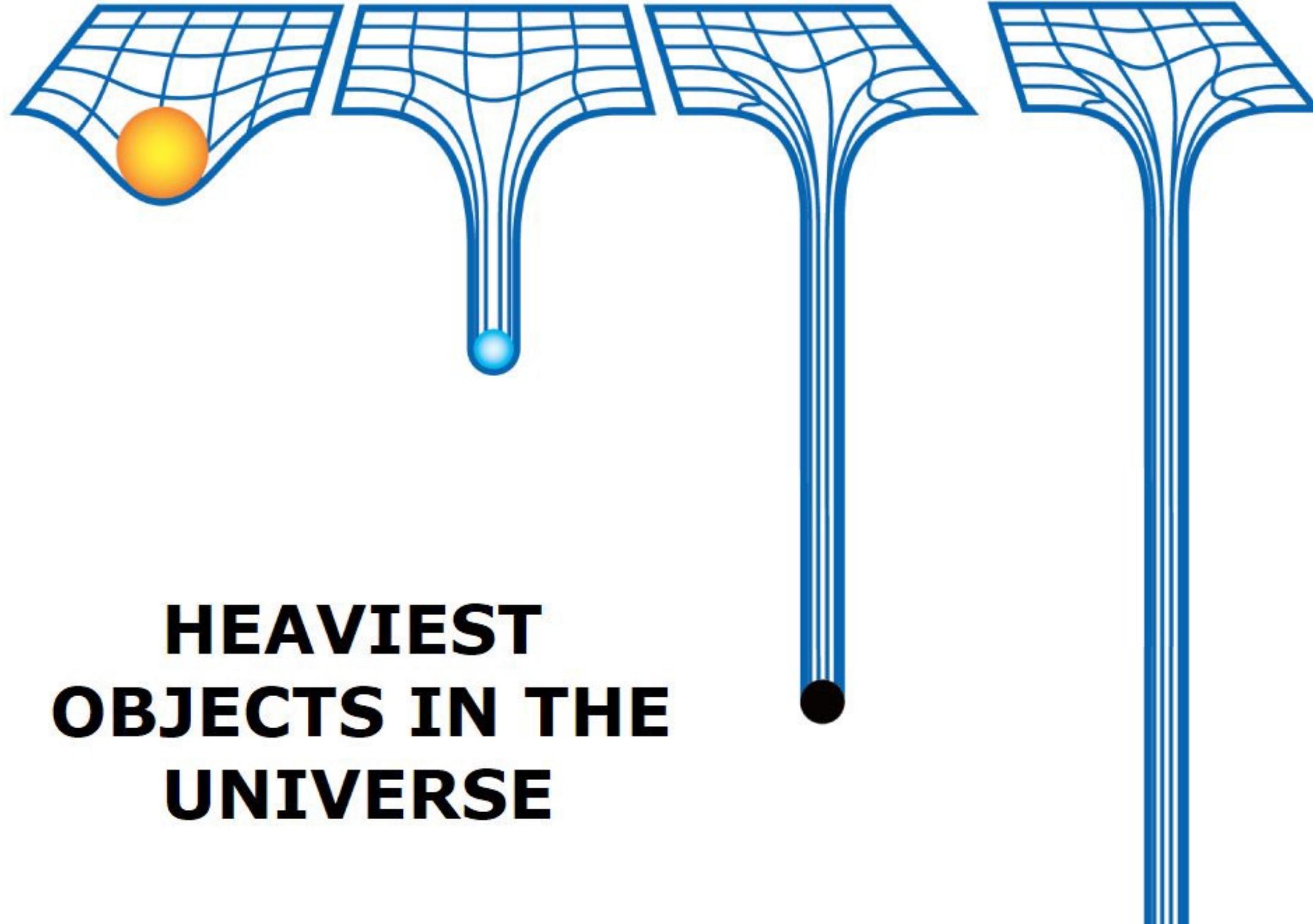
# CODE SPLITTING

**Sun**

**Neutron star**

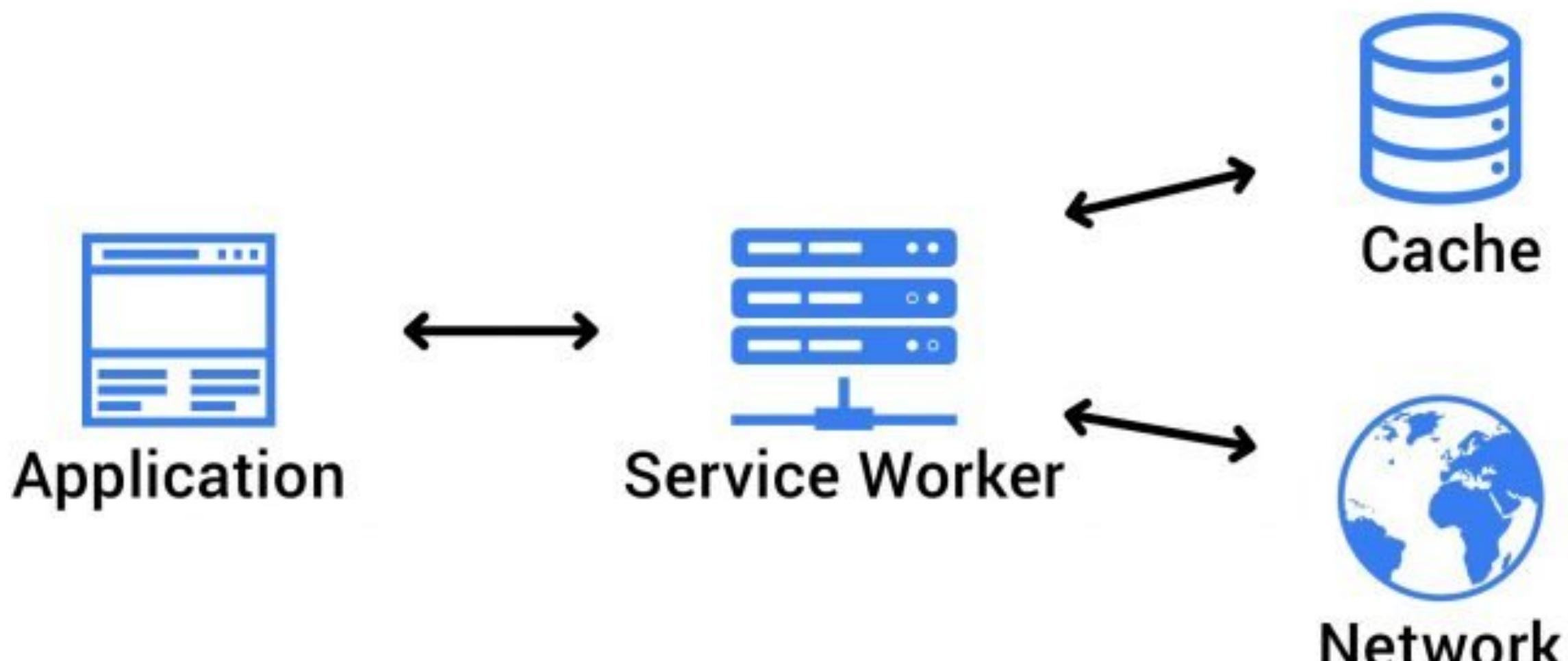
**Black hole**

**node\_modules**



# SERVICE WORKERS

# 4



<sup>4</sup><https://www.wisdomgeek.com/development/web-development/service-worker-progressive-web-applications/>

# MOBILE

*design and development*

**“AROUND *2 billion* PEOPLE CURRENTLY ACCESS THE INTERNET VIA ONLY THEIR SMARTPHONE, WHICH EQUATES TO 51% OF THE GLOBAL BASE OF 3.9 MOBILE USERS.”**



@kelleebutton

(LIKE BELLY BUTTON BUT KELLEEBUTTON)