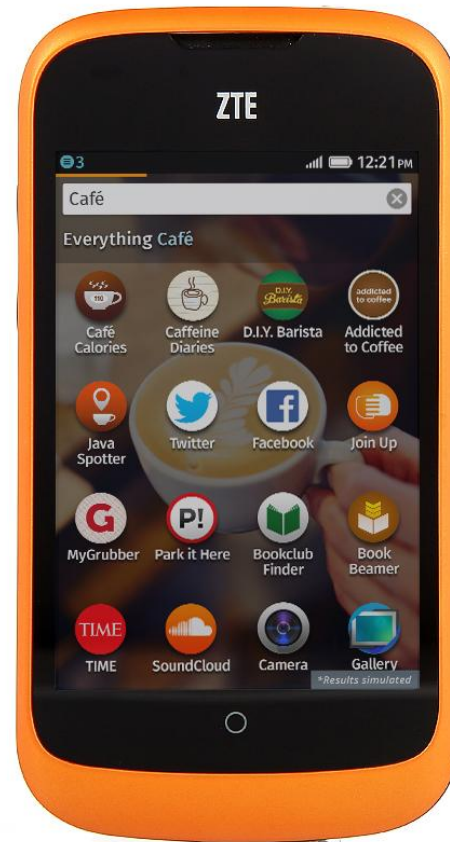



# d3 on cheap smartphones



<http://diafygi.github.io/diafygi/d3cheap>

# How cheap is cheap?



Webcam Area

## **Android 2.3.7**

AT&T Fusion 2

[\\$76](#) no-contract

800 MHz Cortex-A5

512MB RAM

## **Firefox OS 1.3**


ZTE Open

[\\$80](#) unlocked

1.0 GHz Cortex-A5

256MB RAM

# Is SVG supported?



Webcam Area

## **Android 2.3.7**

No - Default

No - Chrome (4.0+)

Yes - Firefox

Yes - Opera

## **Firefox OS 1.3**

Yes - Default


# d3 Test: Static Chart



**Android 2.3.7**  
Works

**Firefox OS 1.3**  
Works

# d3 Test: Movement



Webcam Area

**Android 2.3.7**

Lags at ~XX nodes

**Firefox OS 1.3**

Lags at ~XX nodes

# d3 Test: Force Directed



Webcam Area


**Android 2.3.7**

Lags at ~XX nodes

**Firefox OS 1.3**

Lags at ~XX nodes

# d3 Test: Scaling



Webcam Area


**Android 2.3.7**

Lags at ~XX nodes

**Firefox OS 1.3**

Lags at ~XX nodes

# d3 Test: Hover



Webcam Area

**Android 2.3.7**


Works

**Firefox OS 1.3**

Works



# d3 Test: Touch Events



Webcam Area

**Android 2.3.7**

Lags at ~XX nodes

**Firefox OS 1.3**

Lags at ~XX nodes

# d3 Test: Multi-Touch



Webcam Area

**Android 2.3.7**

Lags at ~XX nodes

**Firefox OS 1.3**

Lags at ~XX nodes

# d3 Test: Interaction



Webcam Area


**Android 2.3.7**

Lags at ~XX nodes

**Firefox OS 1.3**

Lags at ~XX nodes

# d3 Test: Complex Interaction



Webcam Area


**Android 2.3.7**

Lags at ~XX nodes

**Firefox OS 1.3**

Lags at ~XX nodes

# d3 Test: Hardware



Webcam Area


**Android 2.3.7**

No - Hardware API

**Firefox OS 1.3**

Yes - Hardware API

# Conclusions



Webcam Area

## **Android 2.3.7**

Since SVG is not default, d3 apps aren't available to most users.

## **Firefox OS 1.3**

Large potential for d3 integration into local and hosted apps.

# **d3 on cheap smartphones**

**Questions?**

[github.com/diafygi/d3cheap](https://github.com/diafygi/d3cheap)