

SIMPLE

REAL TIME ANALYTICS

WITH MONGODB

INSPIRED BY

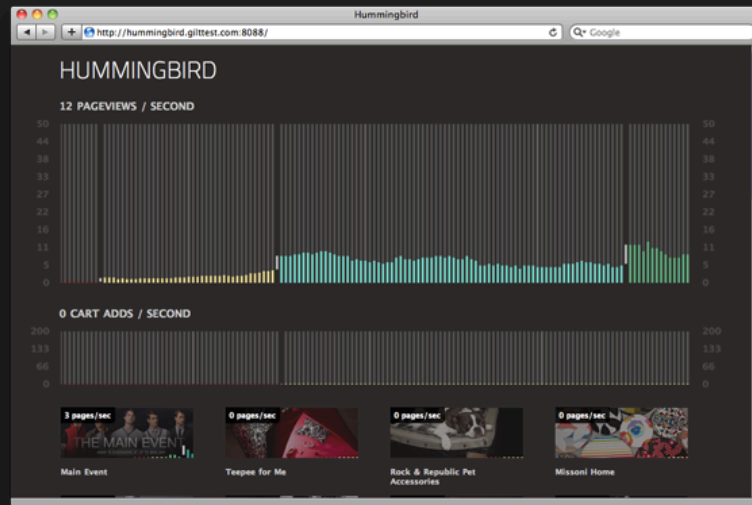
<http://hummingbirdstats.com/>

HUMMINGBIRD

Real Time Web Traffic Visualization [Preview](#)



Note: Hummingbird is pre-alpha software. While it shouldn't screw up your production environment, it's definitely not yet production ready. In fact, we're still in the process of extracting it from the original app. So check it out, but don't expect it to fulfill your greatest desires yet.



Hummingbird lets you see how visitors are interacting with your website in real time.

And by "real time" we don't mean it refreshes every 5 minutes—WebSockets enable Hummingbird to update 20 times per second.

Hummingbird is built on top of [Node.js](#), a new javascript web toolkit that can handle large amounts of traffic and many concurrent users.

[Go to the GitHub page](#)

[View the Live Demo](#)

How It works



MORE AT

<https://devcenter.heroku.com/articles/realtime-polyglot-app-node-ruby-mongodb-socketio>



This article was contributed by **Ben Wen**

Ben works at **MongoLab**, a cloud hosting provider of the NoSQL MongoDB database. MongoLab monitors, backs up, and simplifies running MongoDB in production.



Building a Real-time, Polyglot Application with Node.js, Ruby, MongoDB and Socket.IO

Last Updated: 27 March 2012

mongodb

nodejs

polyglot

ruby

socketio

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- Using Ruby to queue messages
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Real-time apps, or evented apps that incorporate push-based interactivity, are the basis for a new generation of in-browser capabilities such as chat, large-scale games, collaborative editing and low-latency notifications. Though there

STEPS

- Make a *capped collection*
- Put stuff in
- Query it with a *tailable cursor*
- See the stuff come out
- Send it somewhere useful

MAKE A CAPPED COLLECTION

```
db.createCollection("name",  
    {capped:true, size:1000});
```

- Fixed size (bytes)
 - or docs (sort of)
- Loop-around writes
- A few constraints
 - can't delete
 - can't do collection.remove()
 - can't grow doc size
 - by default no _id index
 - no _id uniqueness

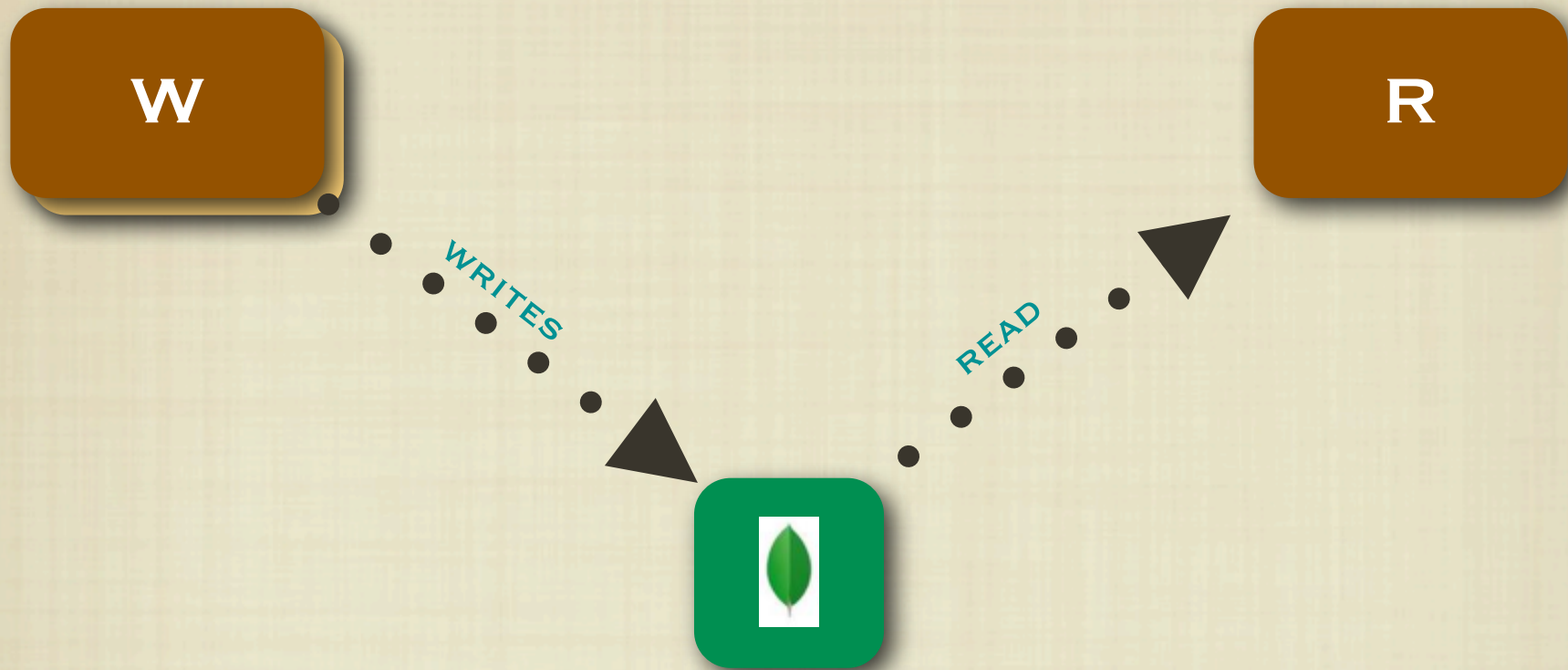
THE TAILABLE CURSOR

```
c = db.collection.find({})  
    .addOption(2)    // tailable  
    .addOption(32); // wait
```


THE TAILABLE CURSOR

```
c = db.collection.find({})  
    .addOption(2)    // tailable  
    .addOption(32); // wait  
  
for(i=0;i<5;i++) {  
    while(c.hasNext()) {  
        var doc = c.next();  
        printjson( doc );  
    }  
}
```

PUT STUFF IN / GET STUFF OUT



SEND IT SOMEWHERE USEFUL

