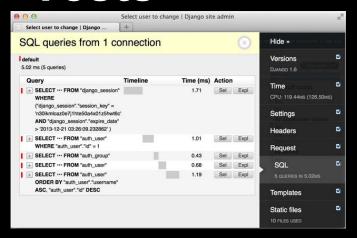
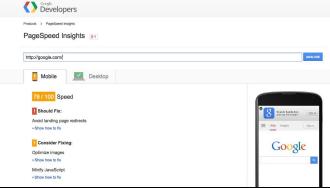
Poster (album.me) (whatsup.me) Testing & Performance Considerations

- Static Files storage and retrieval
- Database transaction speed
- Load balancing and Data Transfer
- Local Improvements & Web Improvements

Tests





Response testing Measure how long the page takes to load and render.

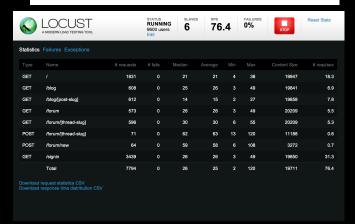
- Django Debug Toolbar (database gueries)
- Google PageSpeed (site optimization)
- Browser check (loading time)



Performance Tests





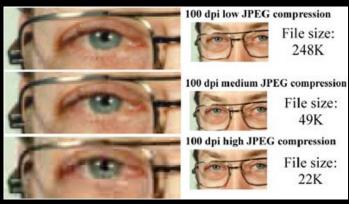


Munin: Measure and track performance of hardware and software. Tracks difference

Apache Bench: Stress testing a web server by sending tons of requests and measuring performance

Locust.io: Stress testing a web server through this python API. Allows for user behavior definitions, and up to millions of concurrent user requests.

Improvement





Images:

- Compression (django imagekit)
- Serve off CDN
- Optimize for web (resize and use jpg/png)
- Use Sprites (reduce network requests)

Files:

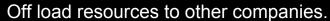
- Minimize CSS/JS files
- Reduce file size (GZip)
- Load JS near end of body

Django:

Reduce abstraction (operate on db level)

Off Load





- S3 to service static files (fast and cheap
- Amazon Web Service to run the server (scalable and reliable)
- Cloudflare for DNS managing and caching, and website optimization





Caching

Johnny-Cache Package

- Django Caching

Framework Package

- Uses Memcached API
- Increase response time

Template Caching

Cached.Loader to reduce recompiling of templates

