# SEWS (Zeus)

Simple Erlang Web Server

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## Goals - SimpleErlangWebServer

- Handle simple download cases
- Handle simple upload cases
- Directory listing
- Configurable server root path
- Cache ETS
- Dynamic script language

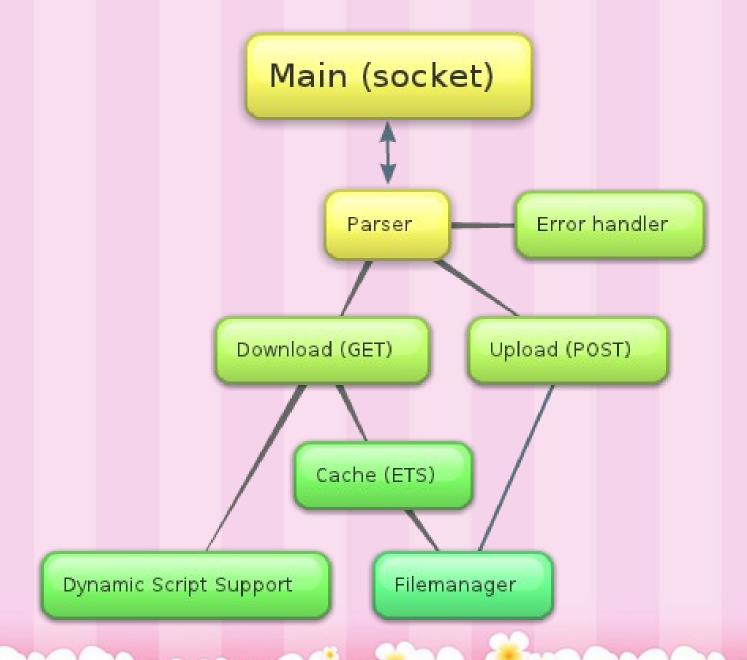
# Organization

- Regular meetings
- Work together
- Pair programming

#### Tools of trade

- Git hosted at github.com/sews
- Make
- GNU-Plot
- Ubuntu
- Emacs
- Apache Benchmark
- Webbrowsers (anyone! except opera...)

### Web server structure



## Cache - Algorithms

Least Recently Used Random Replacement

Which one to use?

"Easy" implementation of new cache-algorithms

Possible max cache and file size settings for cache.

ETS-table

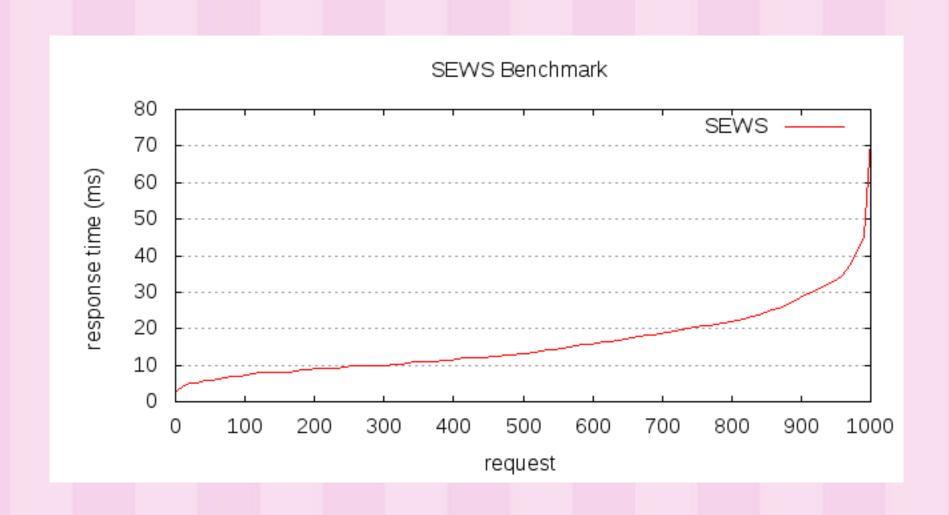
YOU choose the algorithm!

The cache module is independent from the algorithms.

Or do you want to store a 4GB movie in your cache?

#### Enter the Cache

### Benchmark!



#### Benchmark

```
SEWS
Concurrency Level: 10
Request:
             1000000
 (ms)
50% 5
66% 5
75% 5
80% 6
90% 6
95% 6
98% 7
99% 7
100% 3016 (longest request)
```

```
APACHE
Concurrency Level: 10
Request: 1000000

(ms)
50% 3
66% 3
75% 3
80% 3
90% 3
90% 3
95% 3
98% 3
```

100% 3021 (longest request)

99% 3

#### Benchmark

```
SEWS
Concurrency Level: 100
Request:
              100000
 (ms)
50% 13
66% 14
75% 15
80% 15
90% 17
95% 18
98% 22
99% 215
100% 9043 (longest request)
```

```
APACHE
Concurrency
```

Concurrency Level: 100 Request: 100000

```
(ms)
50% 31
66% 31
75% 31
80% 31
90% 32
95% 32
98% 32
99% 32
100% 47 (longest request)
```

#### HOW TO CONFIGURE AND RUN

- 1. OPEN INCLUDE/CONFIG.HRL
- 2. CHANGE YOUR SETTINGS
- 3. RUN! erl -pa ebin main:start().

### **DEMO**