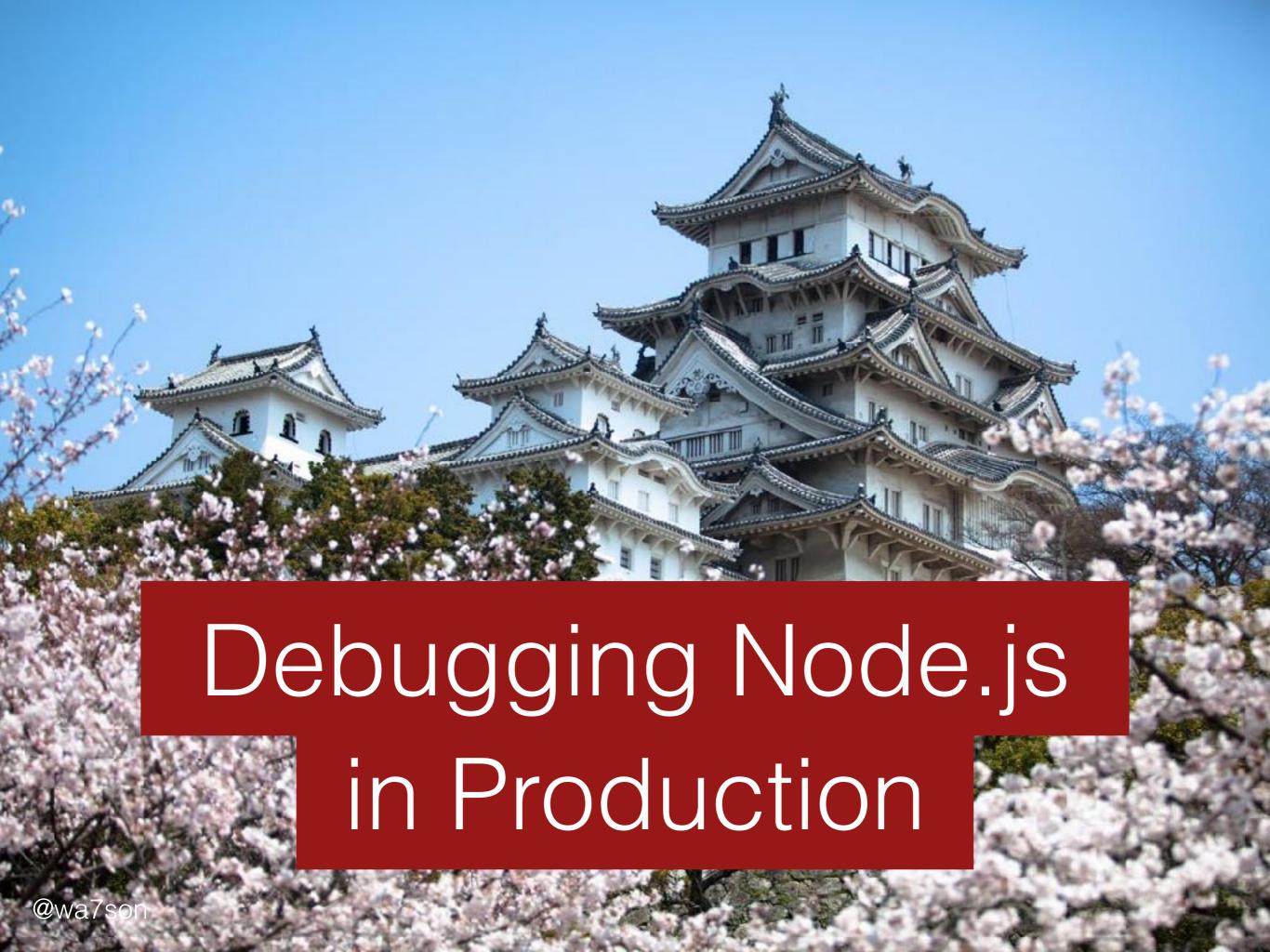






Endpoints Search	Avg. resp. time	95th percentile	RPM	
GET /coffee	107 ms	238 ms	670.13 rpm	
GET /roast/{id}([a-f0-9]{24})	118 ms	148 ms	534.37 rpm	_
GET /coffee-level	652 ms	215 ms	16.87 rpm	_
GET /roast/favorites/count	1,021 ms	125 ms	9.1 rpm	-
HEAD /ping	487 ms	95 ms	18.73 rpm	
GET /pour-rate	2,055 ms	145 ms	3.47 rpm	1
GET /brands/{id}([a-f0-9]{24})	4,859 ms	96 ms	0.9 rpm	
GET /roast	20 ms	38 ms	211.2 rpm	
OFF 10010142/F- 00 0300123	004	00	10.00	_



Why is it important?

Why is it harder?

Premature Optimization

Baseline performance



Measuring

JSON.parse(req.body)

console.time('json-parse')

JSON.parse(req.body)



console.time('json-parse')

JSON.parse(req.body)

console.timeEnd('json-parse')



```
console.time('json-parse')
JSON.parse(req.body)
console.timeEnd('json-parse')
// json-parse: 154.121ms
```



Causes of Slowness

- (Single-threaded)
- CPU intensive code
- Slow I/O
- Event Loop saturation
- Running out of memory
- Garbage Collection

CPU Intensive Code

- Synchronous I/O
- JSON.parse
- Regular Expressions
- Crypto
- Templates

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Demo Time



mdb

- mdb (only runs on Solaris and friends)
- Solaris variant
- mdb v8 https://github.com/joyent/mdb_v8
- core dump (--abort_on_uncaught_exception)
- node binary



https://github.com/nearform/autopsy

Demo Time

Memory Leaks

Demo Time

