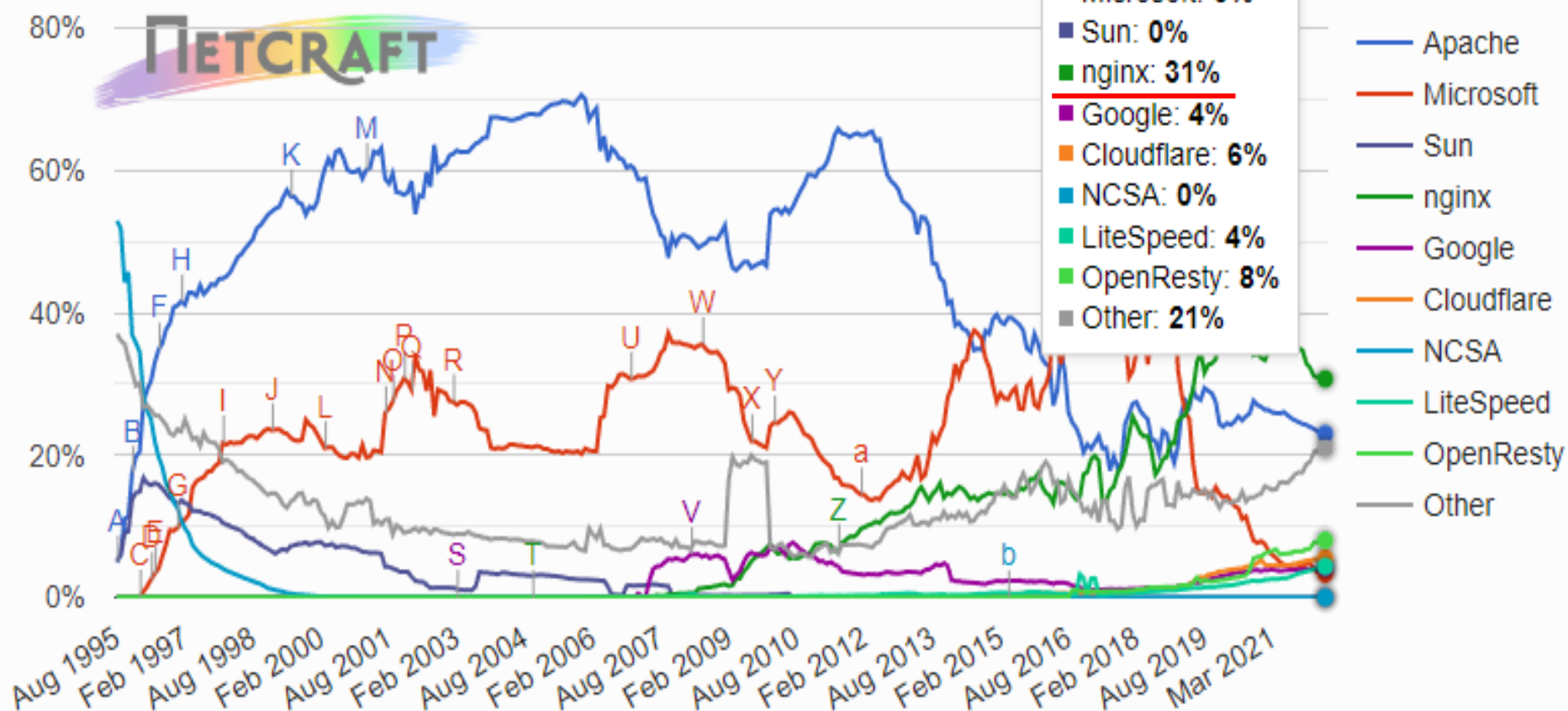


4장 Connection 관리

Web Server History Log

Web server developers: Market share of all sites



왜 웹 서버 점유율이 변화했을까?

답은 Connection 관리에 있다!

December 1996 Web Server Survey

1st December, 1996

The **Netcraft** Web Server Survey is a survey of Web Server software usage on Internet connected computers. We collect and collate as many hostnames providing an http service as we can find, and systematically poll each one with an HTTP request for the server name. In the **December 1996** survey we received responses from **603,367** sites.

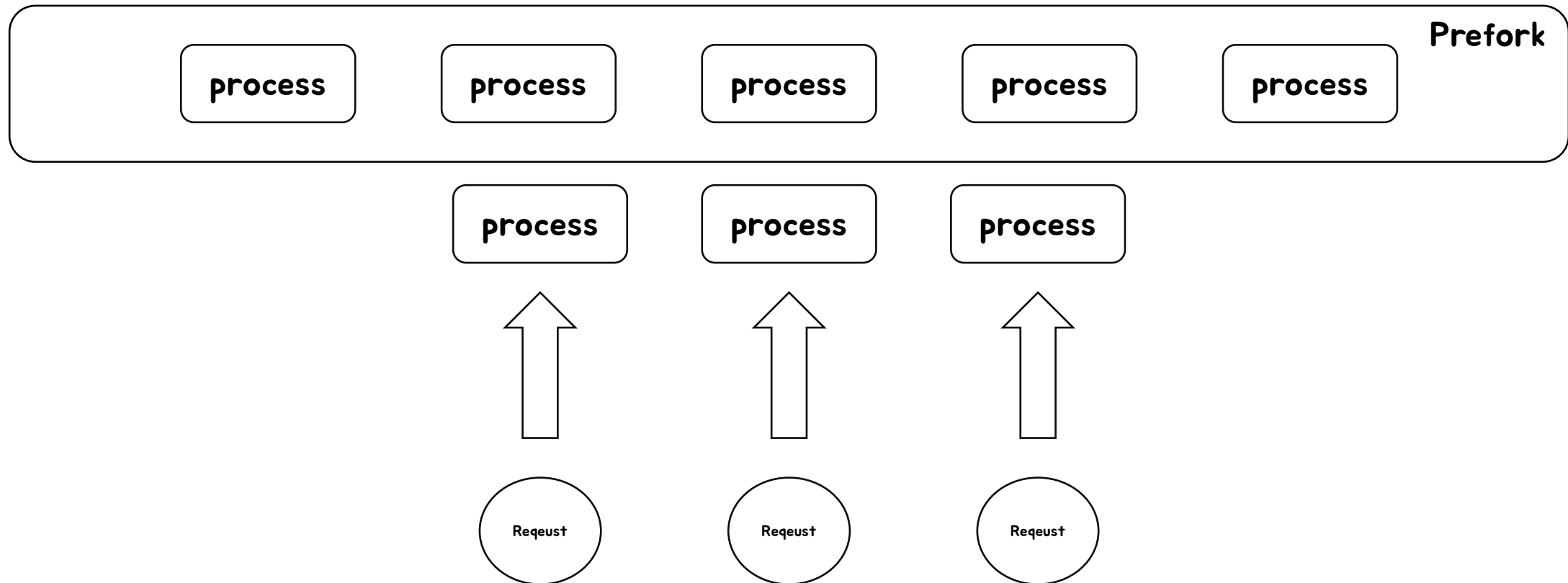
December Results

Servers with more than 20,000 sites

Server	November Sites	December Sites	November %	December %
Apache	214366	247419	40.76	41.00
NCSA	70293	76210	13.36	12.63
Microsoft-IIS	29613	40466	5.63	6.71
Netscape-Communications	28887	30644	5.49	5.08
Netscape-Commerce	28093	30208	5.34	5.01
CERN	23160	21651	4.40	3.59



Apache Web Server



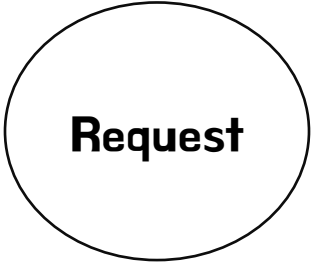
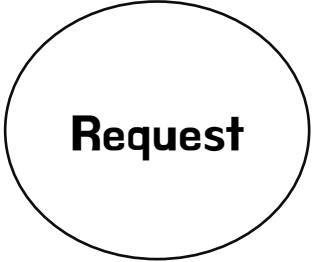
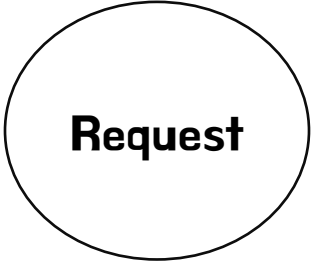
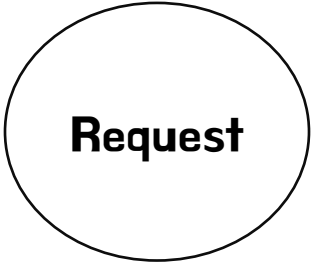
C10K 문제 발생

Connection 10,000 Problem

C10K 문제

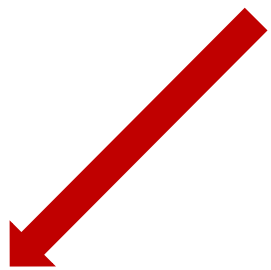


Clients

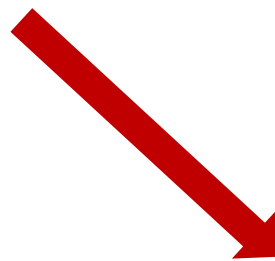


Server





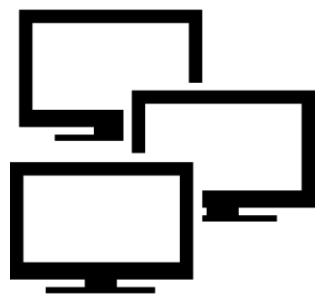
메모리 부족



CPU 부하 ↑



Nginx 등장



Clients

Request

Connection

Request

Connection

Request

Connection

Request

Connection



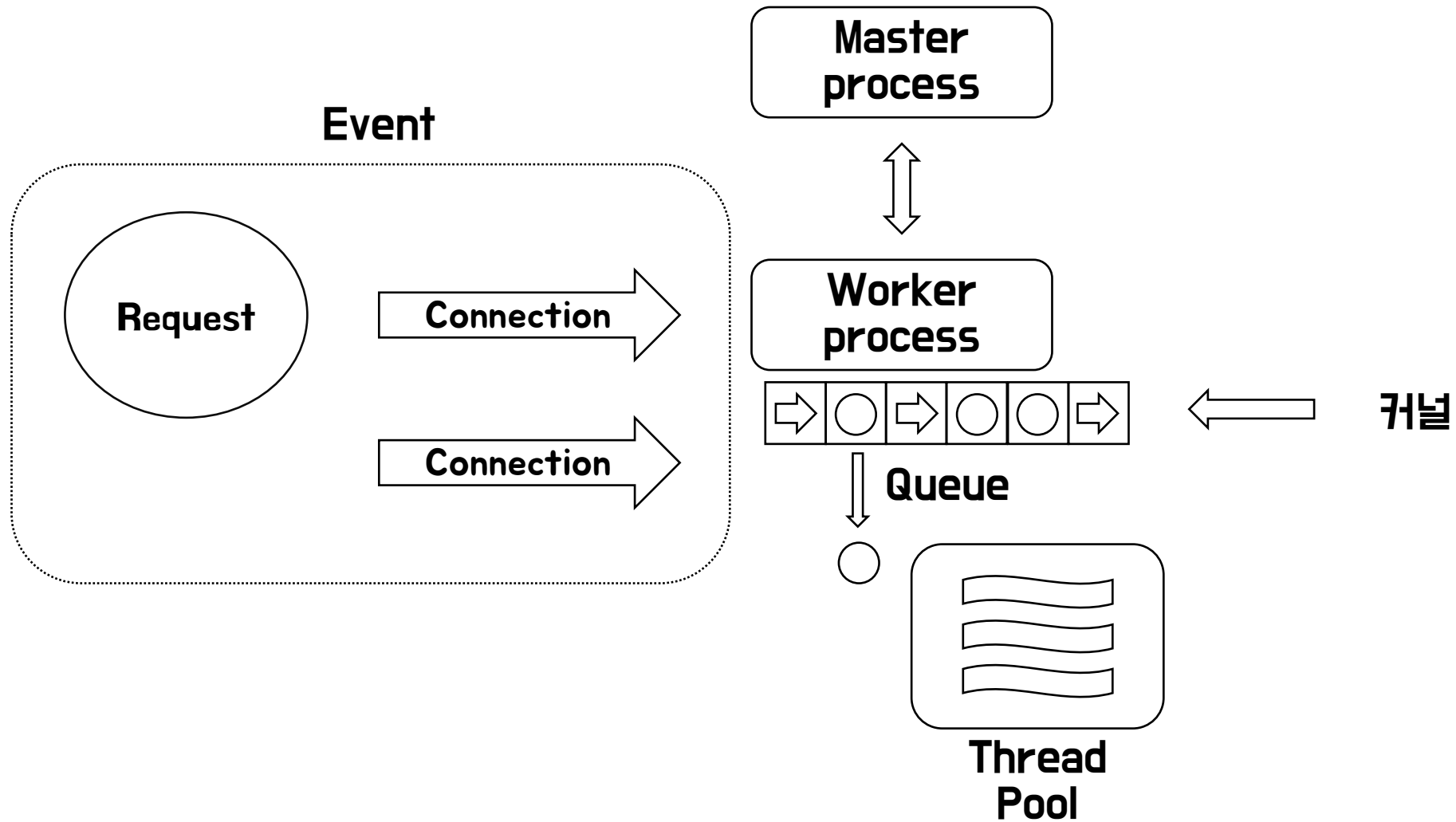
Connection



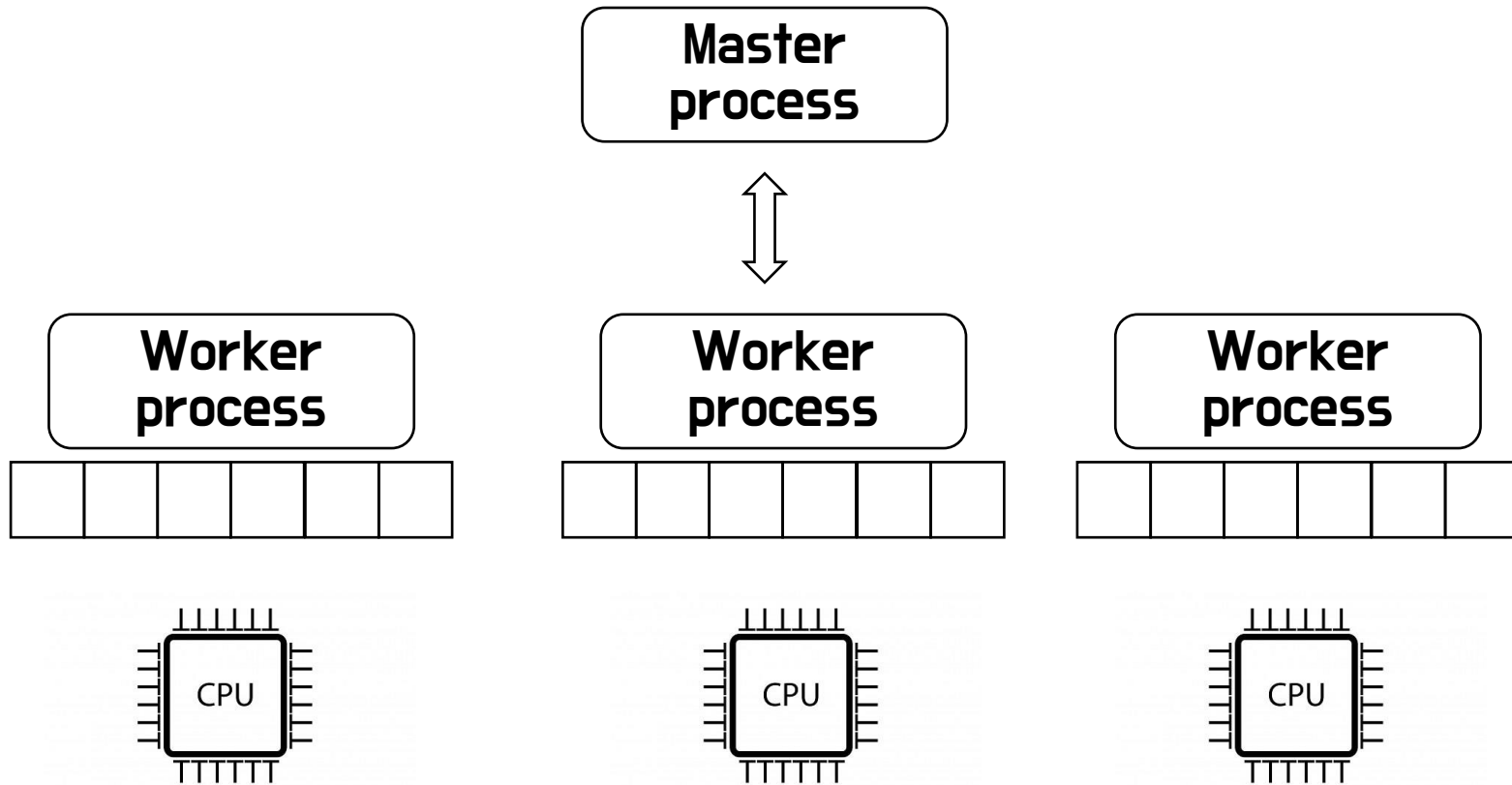
 **APACHE**
HTTP SERVER PROJECT

**Nginx는 어떻게 수많은
Connection 처리할까 ?**

NGINX



NGINX





동시 Connection 양 최소 10배 증가 (일반적으로 100 ~ 1,000 배 증가)

동일한 Connection 수 일 때 속도 2배 향상

Load Balancer

SSL Termination

CORS 처리

TCP/UDP Connection 트래픽 분산

...

감사합니다