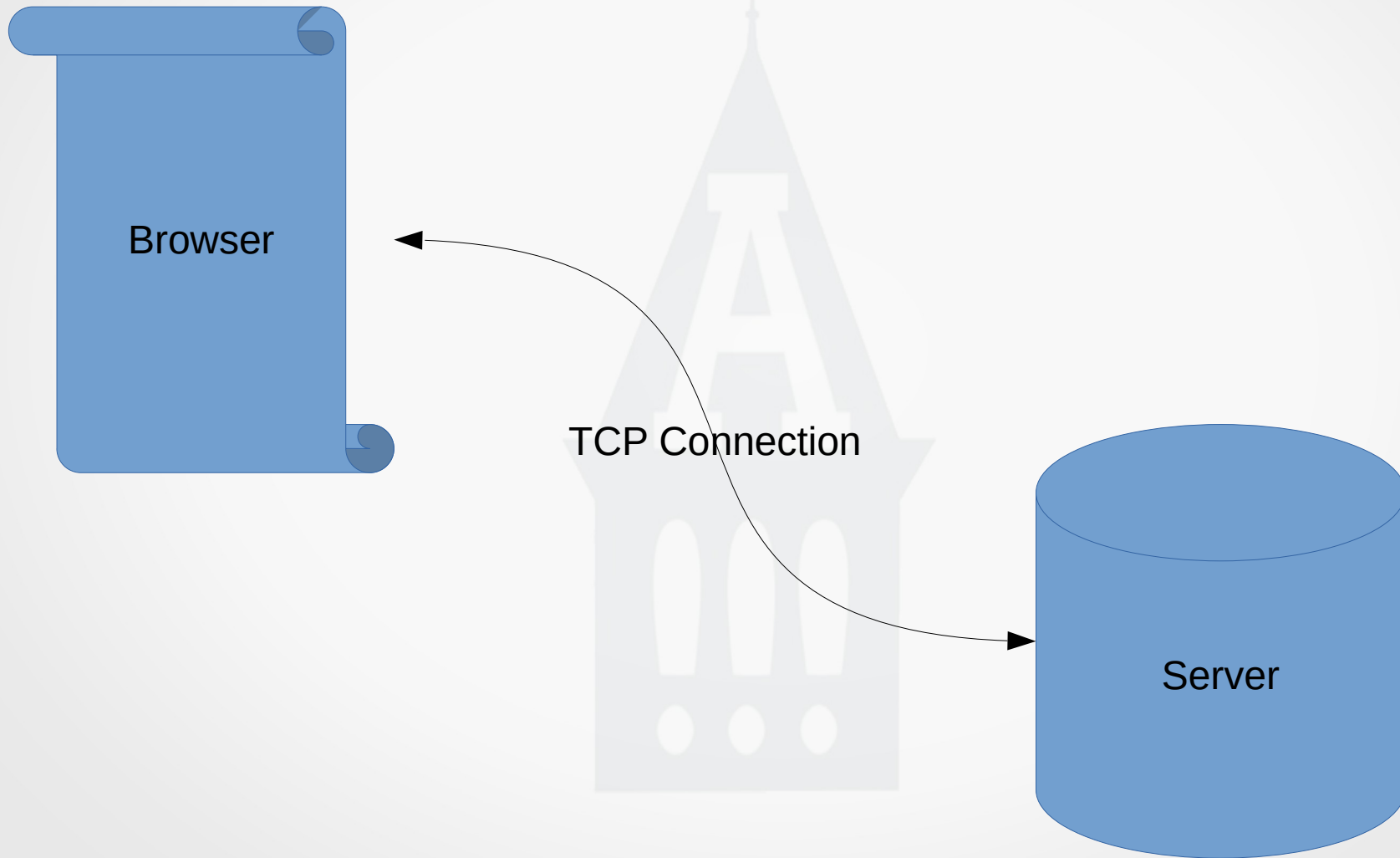


CS 5410

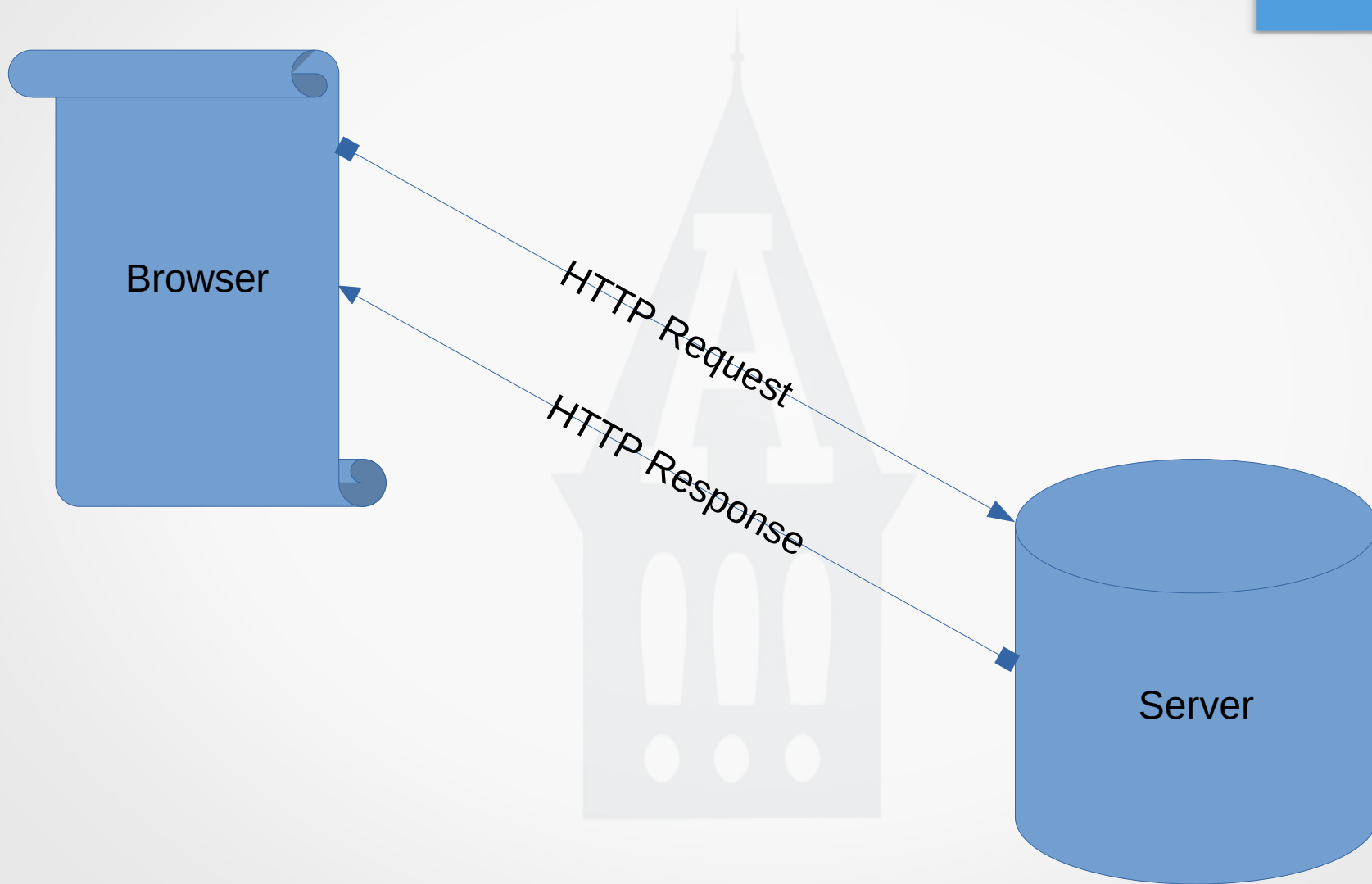
Intro to Node.js Server



Overview



Overview



HTTP Request/Response

Request

```
GET / HTTP/1.1  
Host: usu.edu  
Accept-Language: en-US,en; q=0.9
```

Response

```
HTTP/1.1 200 OK  
Date: Tues, 05 Mar 2020 16:29:29 GMT  
Server: nginx/1.15.7  
Connection: keep-alive  
Content-Length: 20929  
Content-Type: text/html; charset=utf-8
```

HTTP Request/Response

Method

Path

Protocol/Version

```
GET / HTTP/1.1  
Host: usu.edu  
Accept-Language: en-US,en; q=0.9
```

Protocol/Version

Status code

Status message

```
HTTP/1.1 200 OK  
Date: Tues, 05 Mar 2020 16:29:29 GMT  
Server: nginx/1.15.7  
Connection: keep-alive  
Content-Length: 20929  
Content-Type: text/html; charset=utf-8
```



...simple server...



...simple server 2...



Serving Files

- Inspect the incoming request path
 - if '/', then send contents of index.html
 - otherwise, find the file and send its contents
 - If doesn't exist, report an error
- Request path : request.url
- decodeURI : because it might be (UTF) encoded
 - <http://localhost:3000/%69%6e%64%65%78%2e%68%74%6d%6c>
 - <https://en.wikipedia.org/wiki/C%2B%2B14>
- Use 'fs' to see if file exists and read the file contents

UTF-8 Encoder/Decoder: <https://www.browsersling.com/tools/utf8-encode>

Character Encoding

- (from w3) Essential Concepts
 - <https://www.w3.org/International/articles/definitions-characters/>
- Joel Splosky (Stack Overflow)
 - <https://www.joelonsoftware.com/2003/10/08/the-absolute-minimum-every-software-developer-absolutely-positively-must-know-about-unicode-and-character-sets-no-excuses/>



...simple server 3...

