

HTTP Protocol

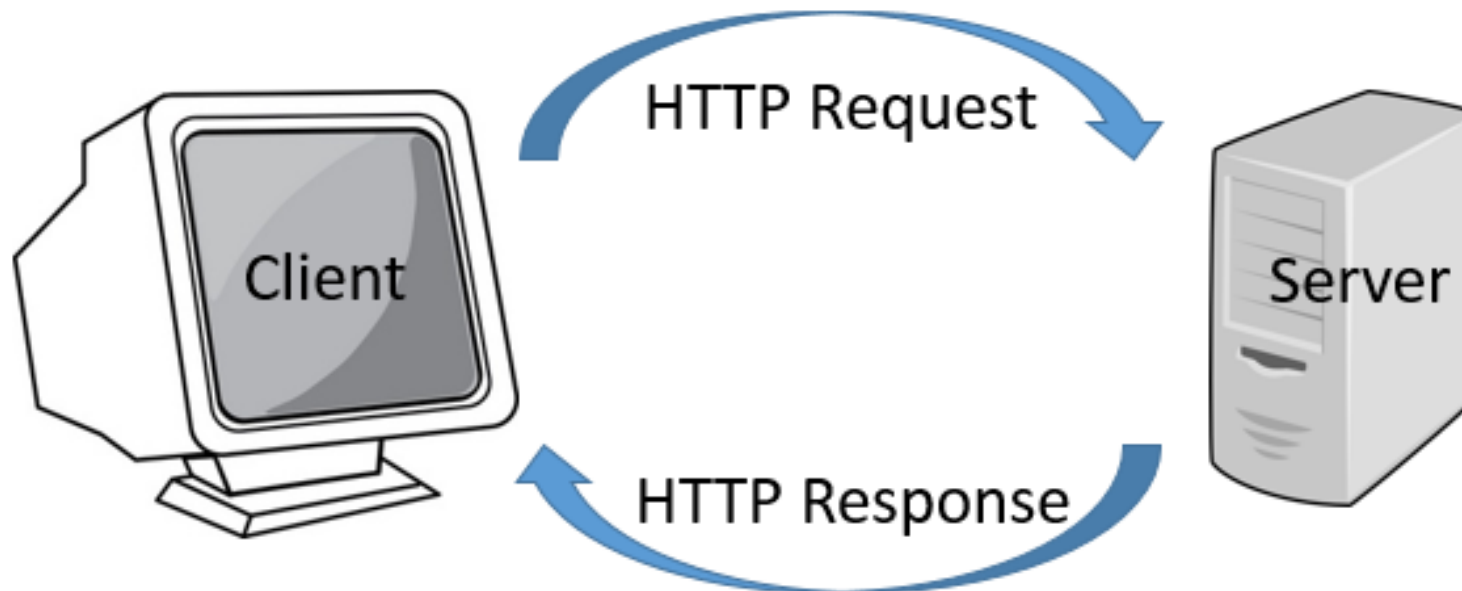
Amir Mohammad Rezvaninia

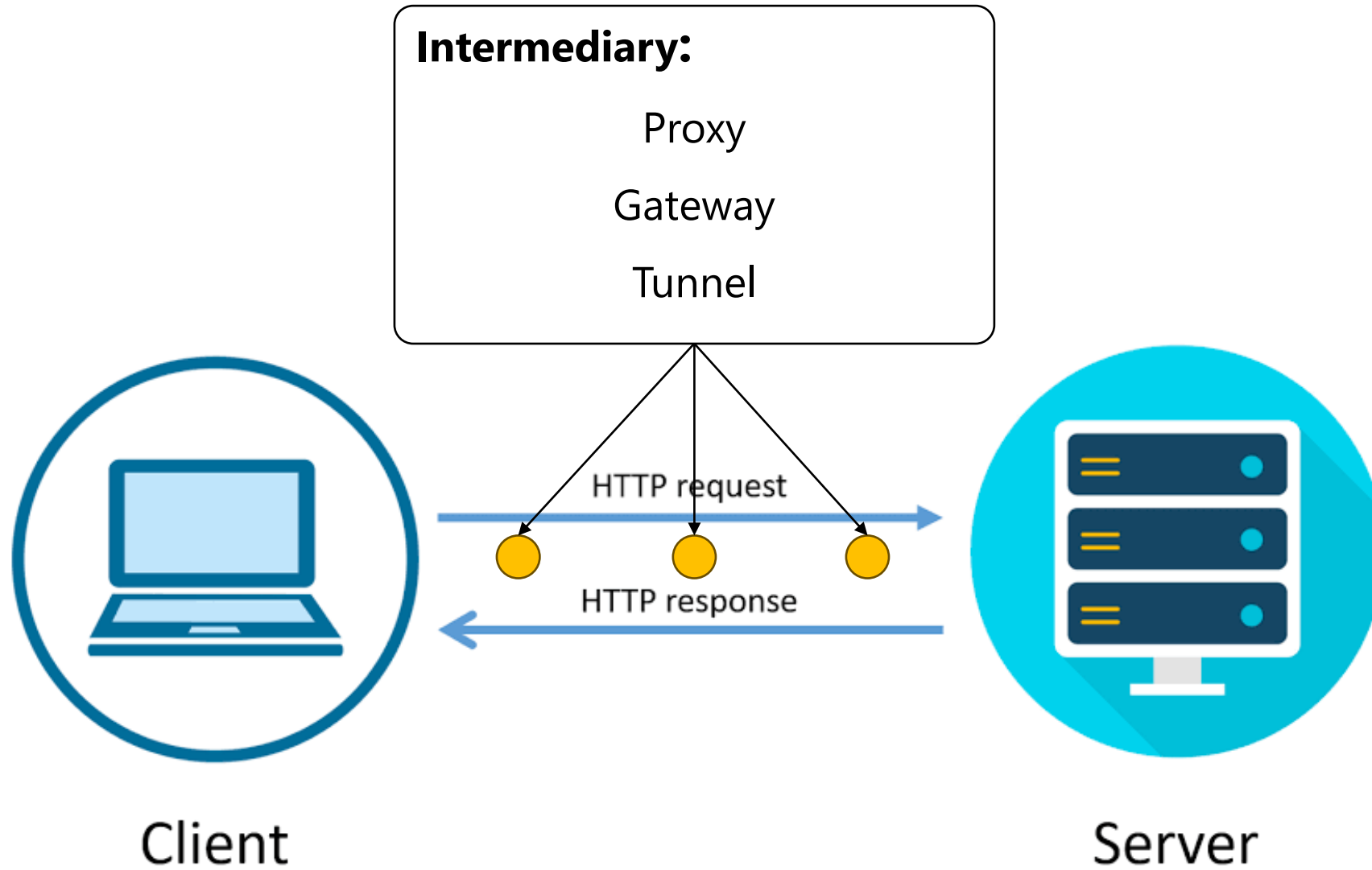
Spring year 1402



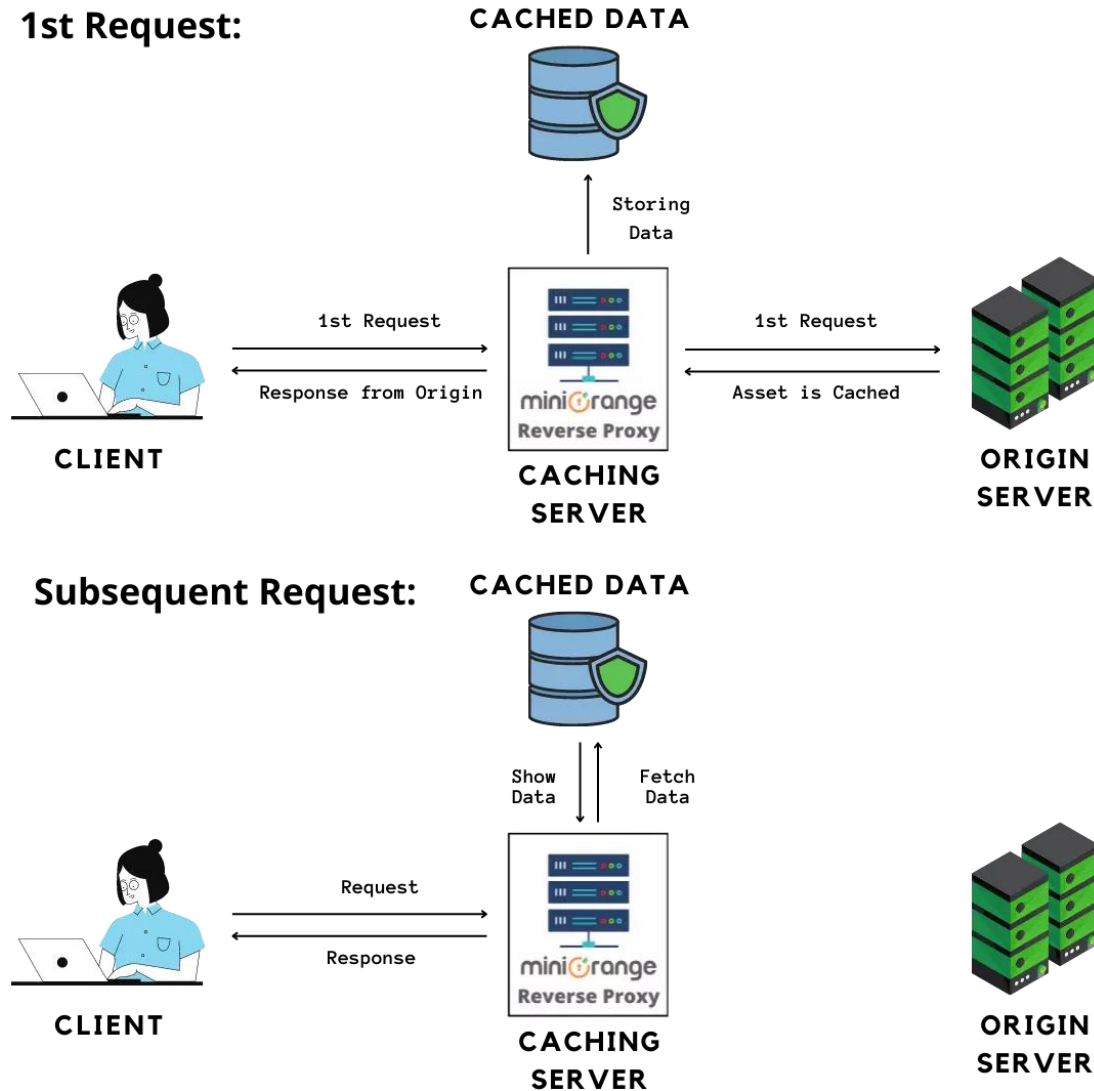
How does it work

- ❑ HTTP communication usually takes place over TCP/IP connections.
- ❑ In HTTP/1.0, most implementations used a new connection for each request/response exchange
- ❑ In HTTP/1.1, a connection may be used for one or more request/response exchanges
- ❑ The default port is TCP 80
- ❑ HTTP is stateless





Caching



The difference between URL and URN and URI

URN,

URL,

URI... ?

URL (Uniform Resource Locator)

Samples:

`https://jwt.io`

`https://auth0.com/docs/get-started#learn-the-basics`

`https://identicons.dev/static/icons/mono/png/icon-access-token.png`

`mailto:yourfriend@somewhere.com`

`ftp://ftpserver.com/myfolder`

URI (Uniform Resource Identifier)

Samples:

```
<?xml version = "1.0" encoding = "UTF-8"?>
```

```
<rec:recipe xmlns:recipe = "https://the-great-chef.com/languages/recipe">
```

```
  <rec:title>Spaghetti carbonara</rec:title>
```

```
  <rec:author>Anonymous</rec:author>
```

```
  <rec:ingredients>
```

```
    ...
```

```
  </rec:ingredients>
```

```
</cont:contact>
```

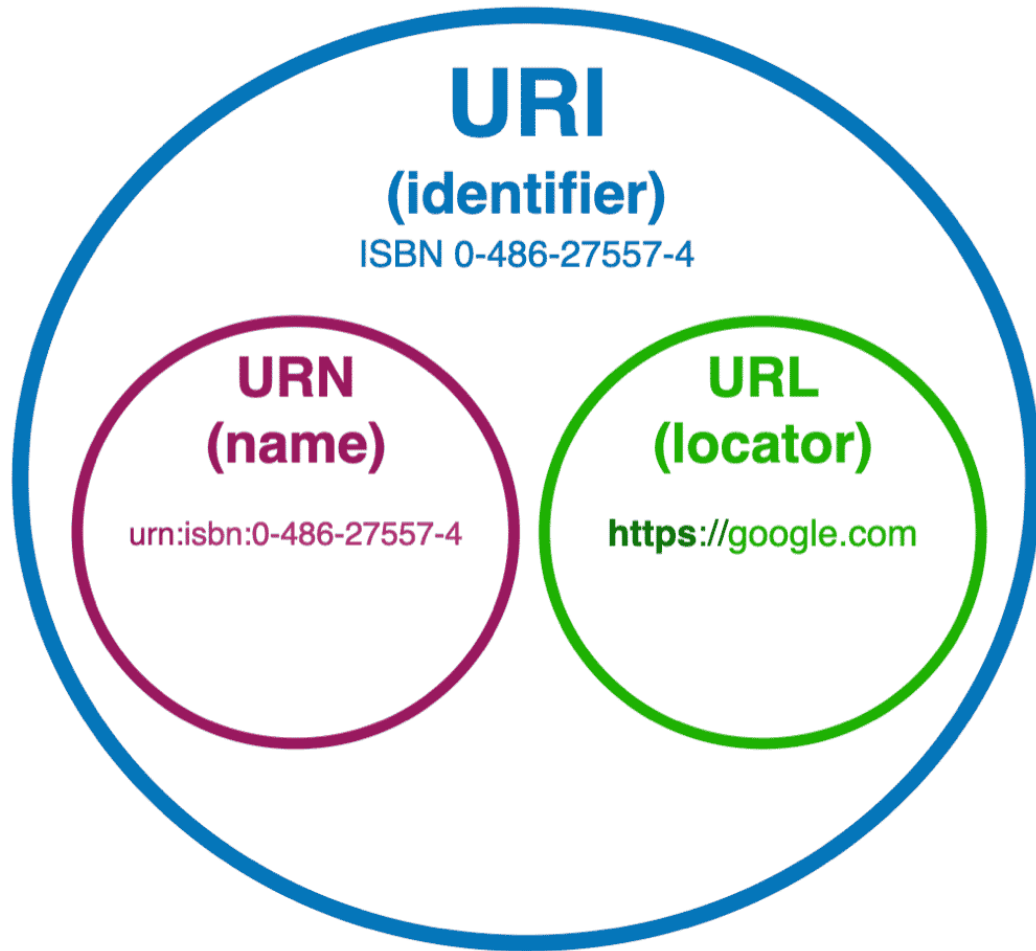
URN (Uniform Resource Name)

Samples:

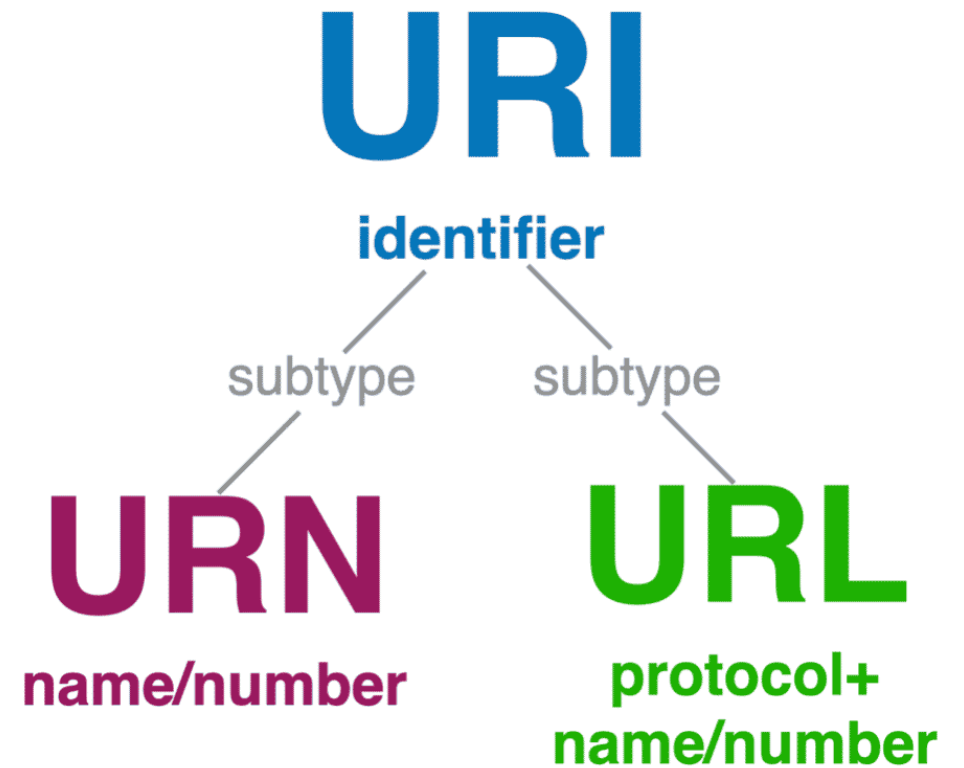
urn:isbn:1234567890

urn:ISSN:0167-6423

urn:ietf:rfc:2648



=



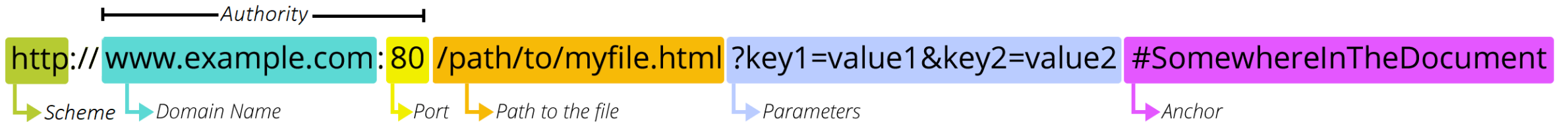
URL

URN

`http://www.example.org/index.html#date`

URI

URL structure



Relative Paths

- `index.html`
- `/graphics/image.png`
- `/help/articles/how-do-i-set-up-a-webpage.html`

Absolute Paths

- `http://www.mysite.com`
- `http://www.mysite.com/graphics/image.png`
- `http://www.mysite.com/help/articles/how-do-i-set-up-a-webpage.html`

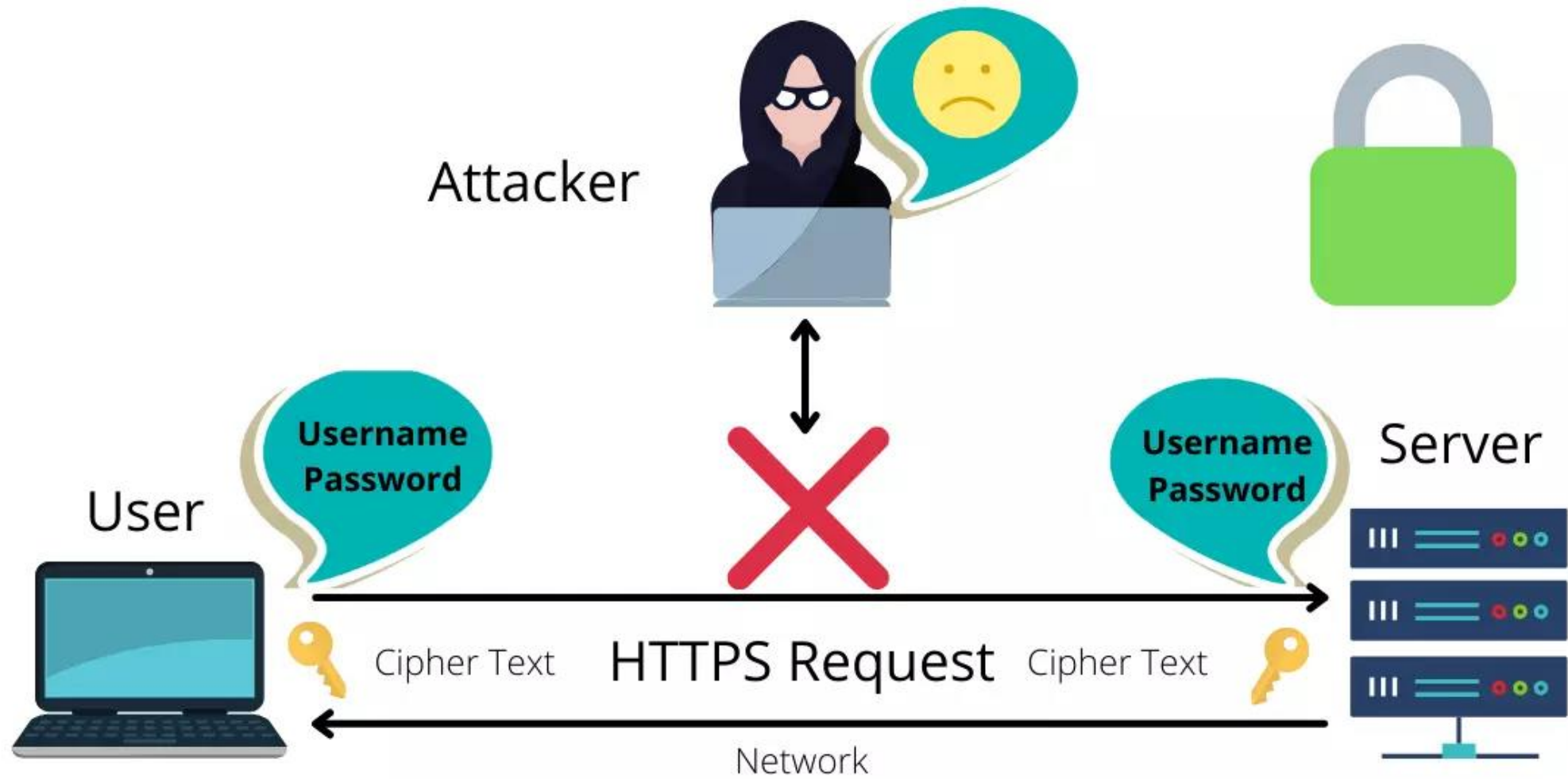
HTTP VS HTTPS



HTTP



HTTPS



Thanks for your attention

Question ?