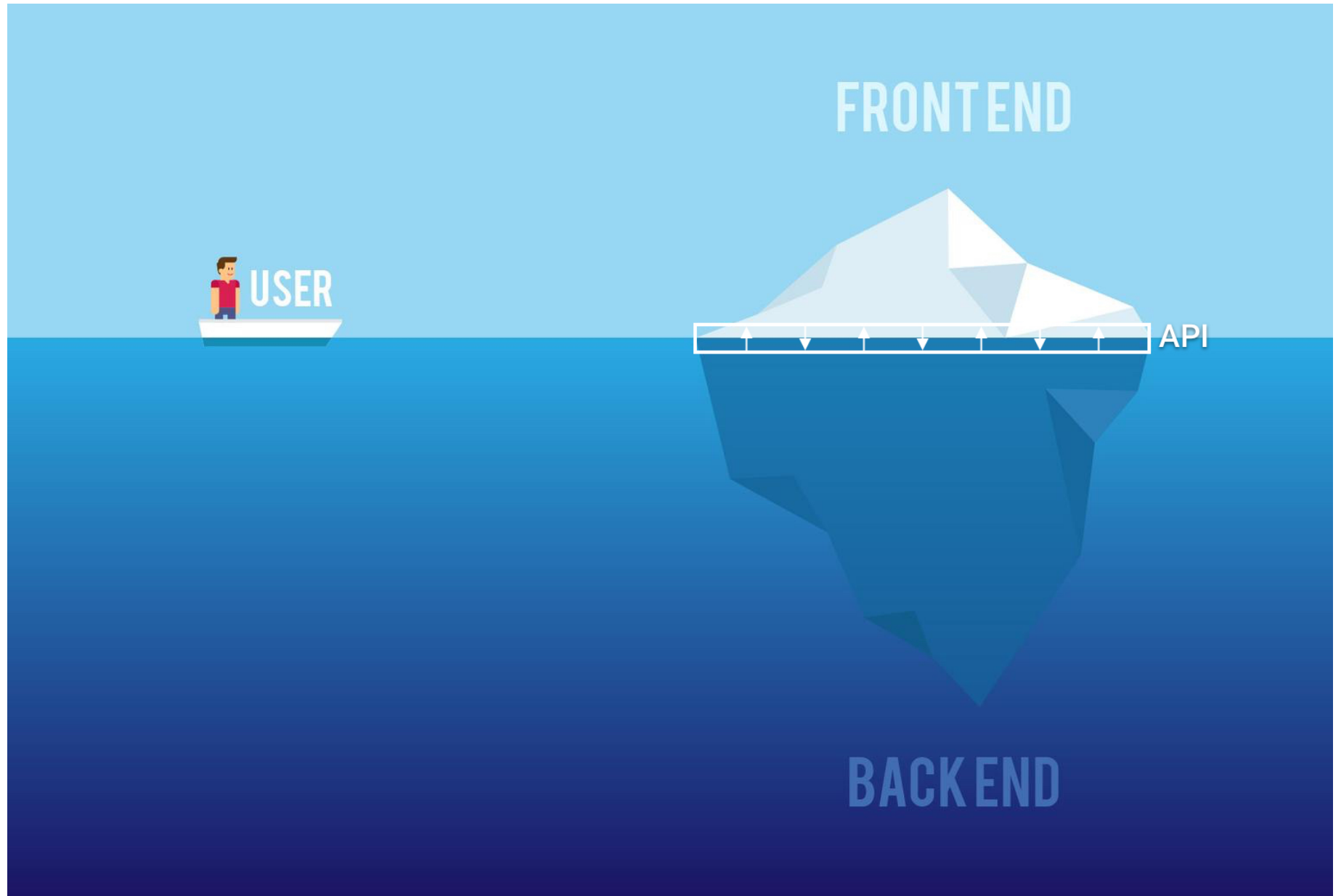


Le developpement web

GET /cours HTTP/1.1

Une application web

- Ca répond à des requêtes HTTP
- C'est accessible via internet (pas toujours => intranet)
- C'est utilisable avec un navigateur (pas toujours => API)



Une requête HTTP

```
<span class="err">GET /gp/cart/view.html?ref_=nav_cart  
</span><span class="err">Host: www.amazon.fr  
</span><span class="err">Accept: text/html  
</span><span class="err">User-Agent: Chrome/27.0.1453.110</span>
```

Les verbes HTTP

Verbe	Définition
GET	Lecture d'une ressource
POST	Création d'une ressources
PUT	Mise à jour d'une ressource
DELETE	Suppression d'une ressource

Les headers HTTP

Headers	Définition
Accept	Format des données attendues
Content-Type	Format des données envoyées
Cache-Control	Politique de cache
Authorization	Token d'authentification
Origin	L'origine de la consultation

La norme REST

- Se base sur les url, les verbes et les headers
- Permet de faire une API facilement utilisable
- Simple à comprendre



Pourtant ça à l'air compliqué...

Récupérer toutes les pizzas

```
<span class="err">GET /pizzas  
</span><span class="err">Host: www.pizzima.fr  
</span><span class="err">Accept: application/json</span>
```

```
<span class="p">[</span>  
  <span class="p">{</span><span class="err">id:</span> <span class="err">1,</span></span>  
  <span class="p">{</span><span class="err">id:</span> <span class="err">2,</span></span>  
  <span class="p">{</span><span class="err">id:</span> <span class="err">3,</span></span>  
  <span class="err">...</span>  
<span class="p">]</span>
```

Récupérer la pizza n°42

```
<span class="err">GET /pizzas/42  
</span><span class="err">Host: www.pizzima.fr  
</span><span class="err">Accept: application/json</span>
```

```
<span class="p">{</span>  
  <span class="err">id:</span> <span class="err">42,</span>  
  <span class="err">name:</span> <span class="nt">"4 Fromages"</span><span class="err">,</span>  
<span class="p">}</span>
```

Ajouter une pizza

```
<span class="err">POST /pizzas  
</span><span class="err">Host: www.pizzima.fr  
</span><span class="err">Accept: application/json  
</span><span class="err">  
</span><span class="err">{  
</span><span class="err">    name: "Pepperoni",  
</span><span class="err">    description: "Une pizza au pepperoni"  
</span><span class="err">}</span>
```

Modifier la pizza n°42

```
<span class="err">PUT /pizzas/42
</span><span class="err">Host: www.pizzima.fr
</span><span class="err">Accept: application/json
</span><span class="err">{
</span><span class="err">    name: "5 Fromages",
</span><span class="err">    description: "Une pizza au fromage"
</span><span class="err">}</span>
```

Supprimer la pizza n°42

```
<span class="err">DELETE /pizzas/42  
</span><span class="err">Host: www.pizzima.fr  
</span><span class="err">Accept: application/json</span>
```

Récupérer les ingrédients de la pizza n°42

```
<span class="err">GET /pizzas/42/ingredients  
</span><span class="err">Host: www.pizzima.fr  
</span><span class="err">Accept: application/json</span>
```



Ok, mais en Javascript, on fait ça
comment ?

ExpressJS

```
<span class="nx">app</span><span class="p">.</span><span class="nx">get</span><span class="p">(</span>  
  <span class="k">const</span> <span class="nx">pizzas</span> <span class="o">=</span> <span class="nx">pizzaService.pizzas</span>  
  <span class="nx">res</span><span class="p">.</span><span class="nx">json</span><span class="p">(</span>  
<span class="p">})</span></span>  
  
<span class="nx">app</span><span class="p">.</span><span class="nx">post</span><span class="p">(</span>  
  <span class="nx">pizzaService</span><span class="p">.</span><span class="nx">update</span><span class="p">(</span>  
    <span class="nx">res</span><span class="p">.</span><span class="nx">sendStatus</span><span class="p">(</span>  
<span class="p">})</span></span>  
  
<span class="nx">app</span><span class="p">.</span><span class="k">delete</span><span class="p">(</span>  
  <span class="nx">pizzaService</span><span class="p">.</span><span class="k">delete</span><span class="p">(</span>  
    <span class="nx">res</span><span class="p">.</span><span class="nx">sendStatus</span><span class="p">(</span>  
<span class="p">})</span></span>
```