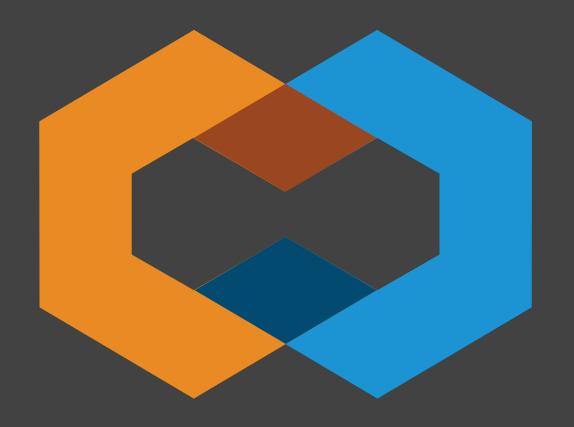


基于 VMware Clarity 构建 Web 应用

Clarity Design System

Inspiring builders to create better experiences





UX guidelines



HTML / CSS

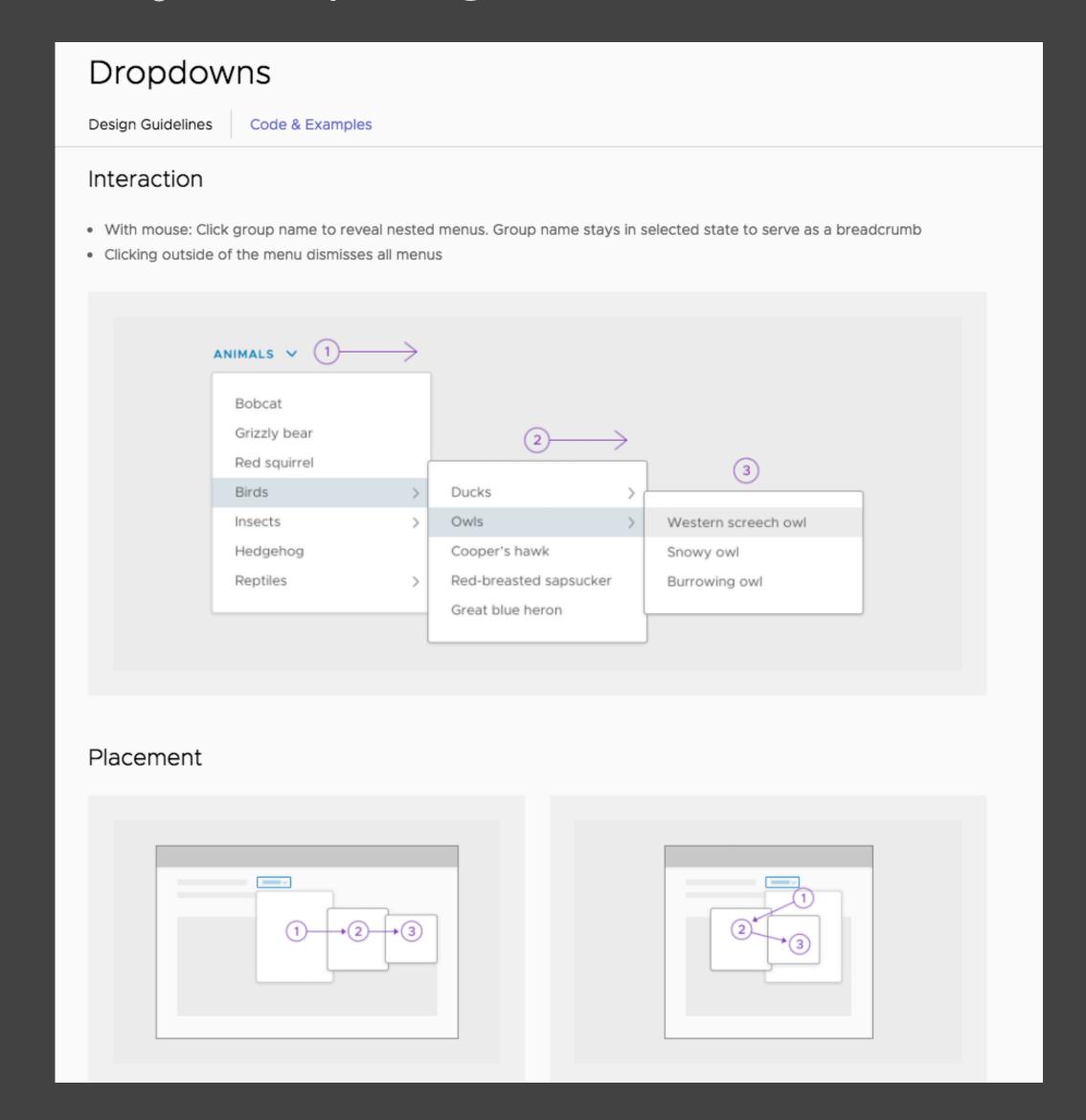


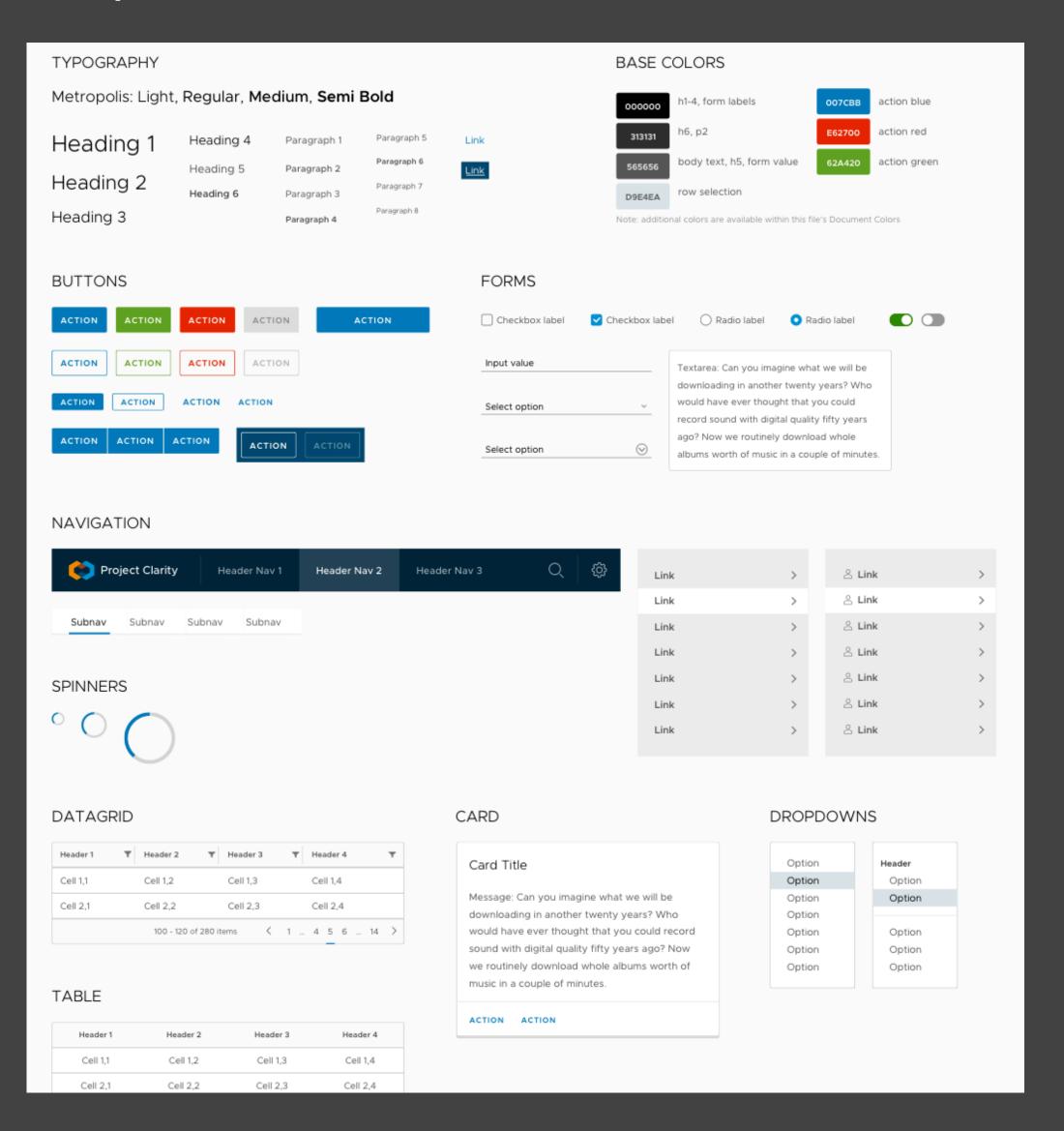
Sketch template & library



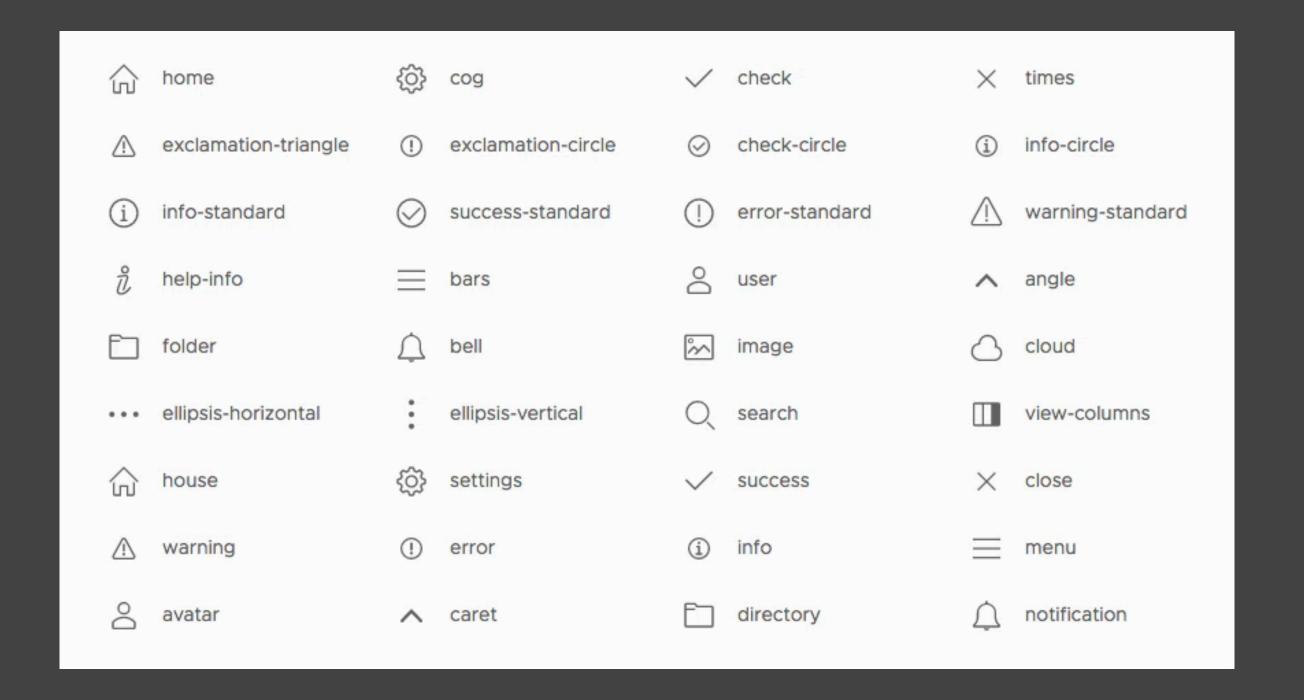
Angular components

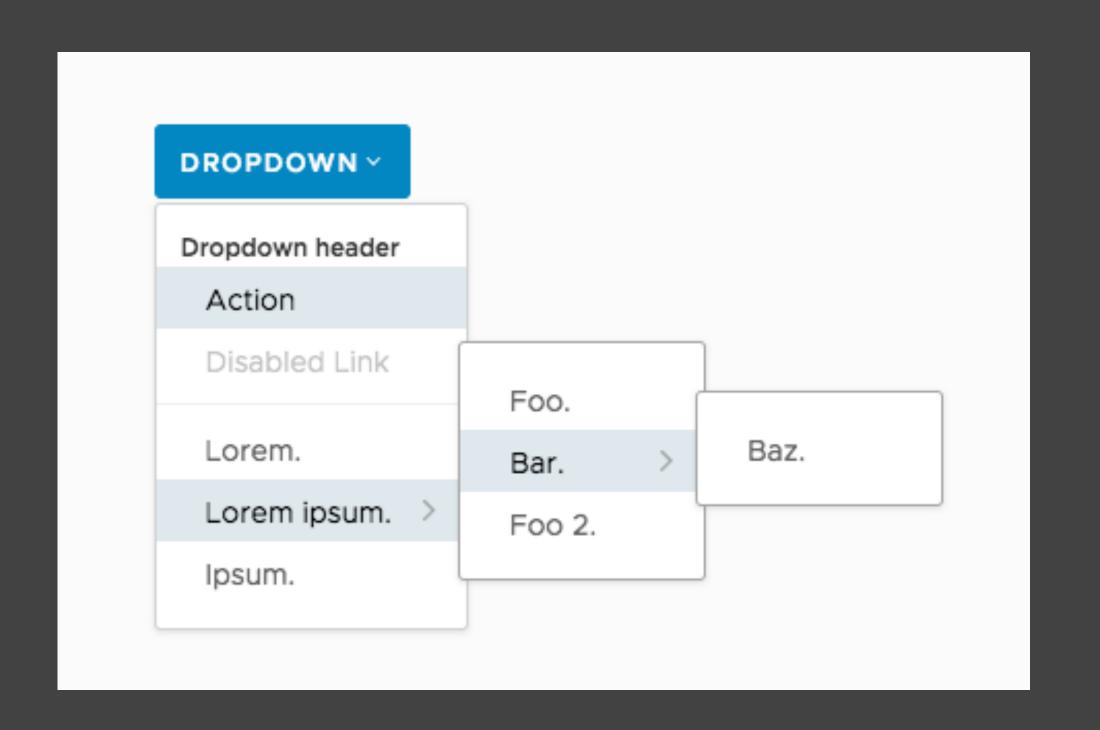
Clarity - Inspiring builders to create better experiences





Clarity - Inspiring builders to create better experiences





SVG Icons

Components

Clarity Components

Inspiring builders to create better experiences

Alert	Grid	Sidenav
Badge	Header	Signposts
Button	Input	Spinner
Button Group	Label	Stack View
Card	List	Table
Checkbox	Login	Tab
Theming	Modal	Textarea
Date Picker	Password	Toggle Switch
Datagrid	Progress Bars	Tooltip
Dropdown	Radio Buttons	Tree View
Form	Select	Wizard

Clarity's Open Source Journey Since November 15th 2016...

4200+ Stars on GitHub 1000+
Pull Requests

200+ Releases

4,000,000+
Page Views

195+
Countries

174+
Languages

Engage with Us!



http://clarity.design



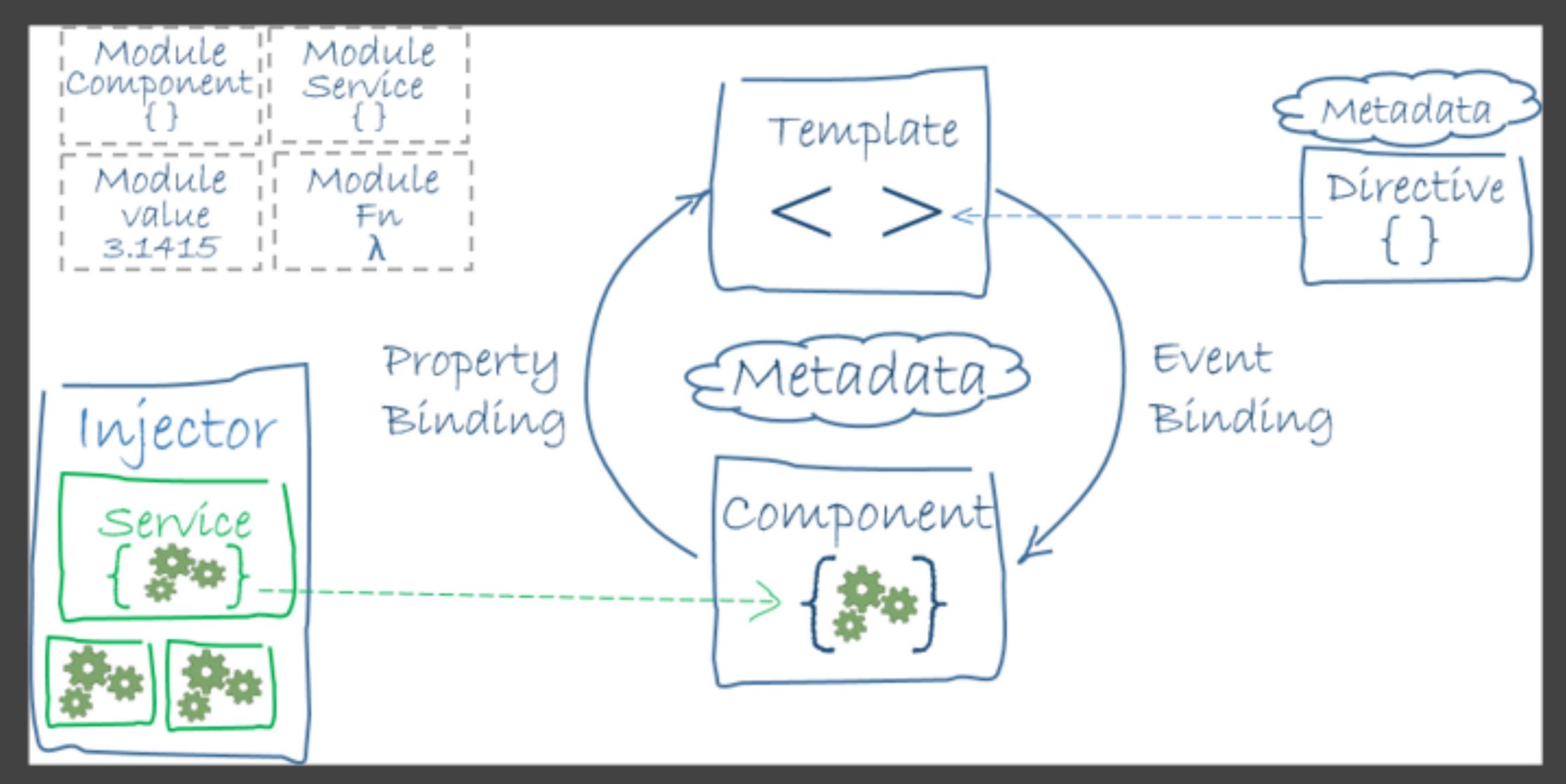
https://github.com/vmware/clarity





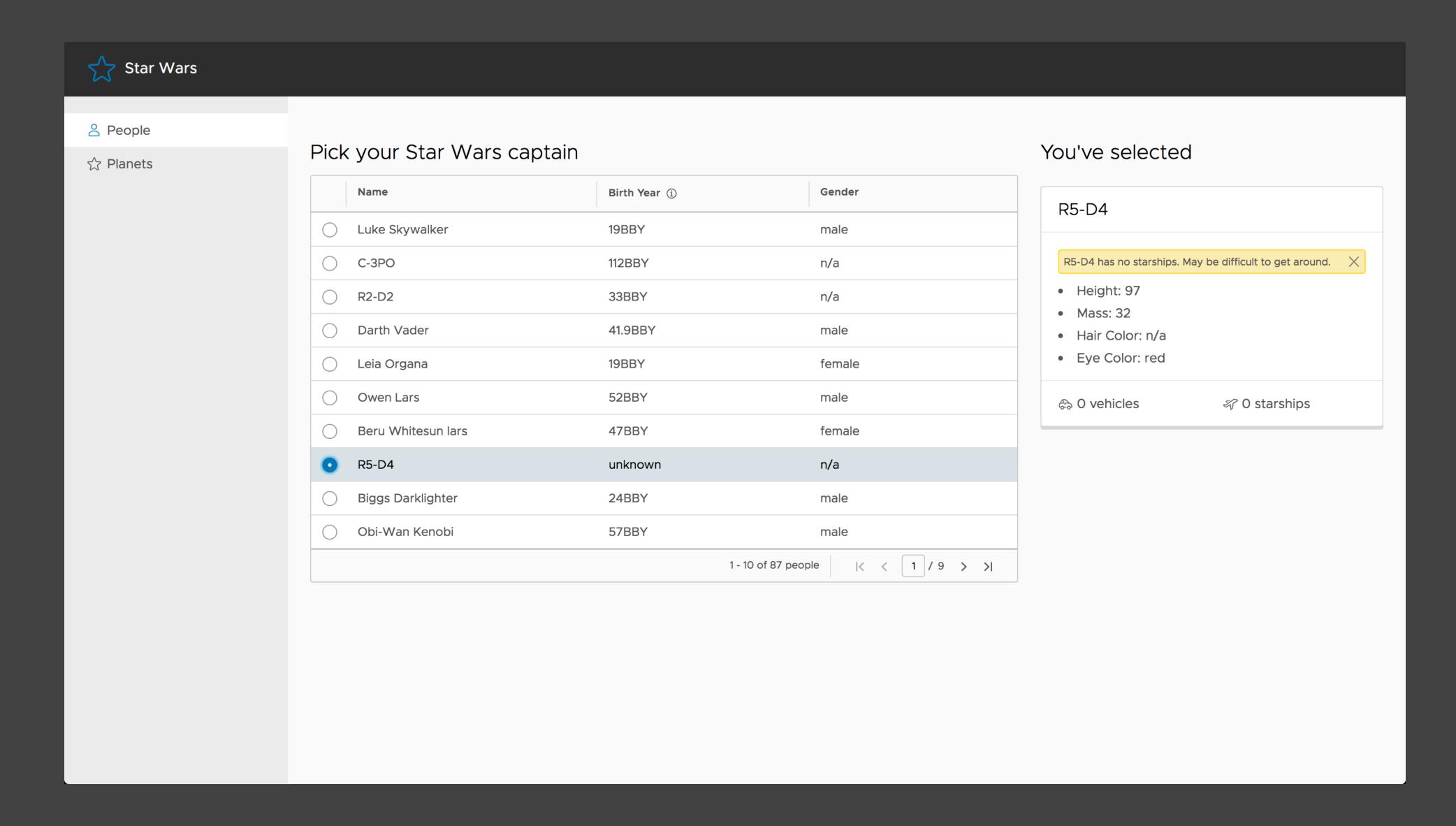
Hands-on workshop

Angular in a nutshell



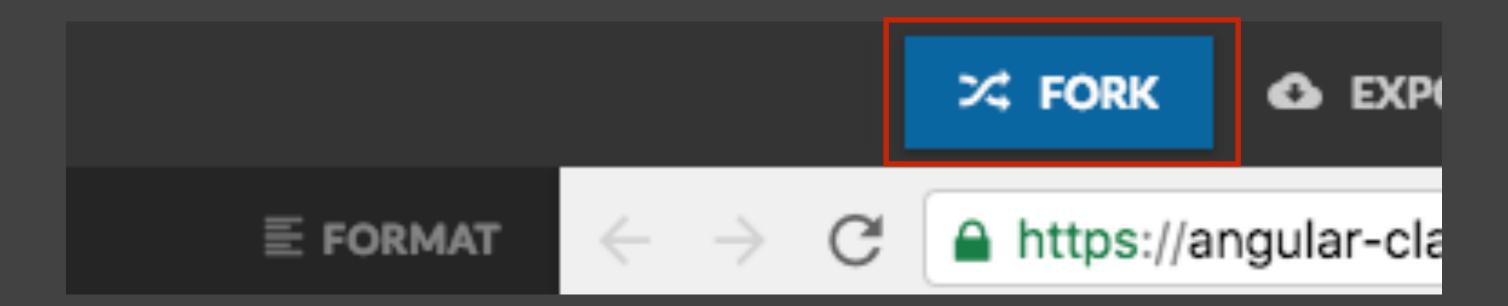
(image source: https://angular.io/docs/ts/latest/guide/architecture.html)

Hands-on: Using Star Wars API with Clarity



Hands-on: Using Star Wars API with Clarity

- Go to: https://stackblitz.com/edit/2018-ng-china
- Click on FORK on top navigation



Setting up the page

- A grid provides a structure of rows and columns for aligning content
- Clarity uses a 12-column, responsive grid
- Replace the content of people.component.html with the following:

```
<div class="clr-row">
    <div class="clr-col-sm-12 clr-col-md-8">
        <span>span 1</span>
    </div>
    <div class="clr-col-sm-12 clr-col-md-4">
        <span>span 2</span>
    </div>
</div>
```

Adding a datagrid

Add the following to the first column div in people.component.html:

```
<h3>Pick your Star Wars captain</h3>
<clr-datagrid>
  <clr-dg-column>User ID</clr-dg-column>
  <clr-dg-column>Name</clr-dg-column>
  <cir-dg-row *ngFor="let user of users">
    <clr-dg-cell>{{user.id}}</clr-dg-cell>
    <clr-dg-cell>{{user.name}}</clr-dg-cell>
  </clr-dg-row>
  <clr-dg-footer>{{users.length}} users</clr-dg-footer>
</clr-datagrid>
```

Define users in people.component.ts:
 users = [{ id: 1, name: "Alice" }, { id: 2, name: "Bob" }];

Fetching data through a service

We'll be using The Star Wars API to fetch data: https://swapi.co/

```
# generating a new service
  ng generate service people
# use Angular's Http module to call this API in people.service.ts
  import { Injectable } from "@angular/core";
  import { Http } from "@angular/http";
  import "rxjs/add/operator/map";
  @Injectable()
  export class PeopleService {
   constructor(private http: Http) { }
   get(page: number = 1) {
      let restUrl = `https://swapi.co/api/people/?page=${page}`;
      return this.http.get(restUrl).map(data => data.json());
```

Consuming our service in the component

• In people.component.ts:

```
import { PeopleService } from "../people.service";
@Component({
  providers: [PeopleService]
})
export class HomeComponent {
  currentPage = 1;
  users = [];
  constructor(private peopleService: PeopleService) {
    this.peopleService.get(this.currentPage).subscribe( data => {
          this.users = data.results;
```

Populating datagrid

Modify people.component.html to display data from the service call:

```
<clr-datagrid>
  <clr-dg-column>Name</clr-dg-column>
  <clr-dg-column>Birth Year</clr-dg-column>
  <clr-dg-column>Gender</clr-dg-column>
  <clr-dg-row *ngFor="let user of users">
    <clr-dg-cell>{{user.name}}</clr-dg-cell>
    <clr-dg-cell>{{user.birth_year}}</clr-dg-cell>
    <clr-dg-cell>{{user.gender}}</clr-dg-cell>
  </cir-dg-row>
  <clr-dg-footer>{{users.length}} people</clr-dg-footer>
</clr-datagrid>
```

Adding pagination - footer

Modify the footer in people.component.html:

```
<clr-dg-footer>
  {{pg.firstItem + 1}} - {{pg.lastItem + 1}} of {{pg.totalItems}} people
  <clr-dg-pagination #pg [(clrDgPage)]="currentPage"
       [clrDgPageSize]="10" [clrDgTotalItems]="total">
       </clr-dg-pagination>
  </clr-dg-footer>
```

Define total in people.component.ts:

```
total = 0;
constructor(private peopleService: PeopleService) {
   this.peopleService.get(this.currentPage).subscribe( data => {
        ...
        this.total = data.count;
   });
}
```

Fetching data for another page - template

Add datagrid's properties in people.component.html:

Data direction	Syntax	
data source (class) to view target (html)	{{expression}} or [target]="expression"	
view target (html) to data source (class)	(target)="statement"	
Two-way	[(target)]="expression"	

Fetching data for another page - component

• Define variables and refresh function in people.component.ts:

```
import { ClrDatagridStateInterface } from "@clr/angular";
export class HomeComponent {
  selected;
  loading = true;
  constructor(private peopleService: PeopleService) {}
  refresh(state: ClrDatagridStateInterface) {
    this.loading = true;
    this.peopleService.get(this.currentPage).subscribe( data => {
       this.loading = false;
    });
```

Enabling selection

Add datagrid's properties for selection in people.component.html:

Displaying selection (1)

Add a card to the other column in people.component.html:

```
<ng-container *nglf="selected">
  <h3>You've selected</h3>
  <div class="card">
     <div class="card-header">
       {{selected.name}}
     </div>
     <div class="card-block">
     </div>
     <div class="card-footer">
</div>
</ng-container>
```

Displaying selection (2)

• Fill out card-block with data in people.component.html:

```
<div class="card">
  <div class="card-block">
    <l
      Height: {{selected.height}}
      Mass: {{selected.mass}}
      Hair Color: {{selected.hair_color}}
      Eye Color: {{selected.eye_color}}
    </div>
```

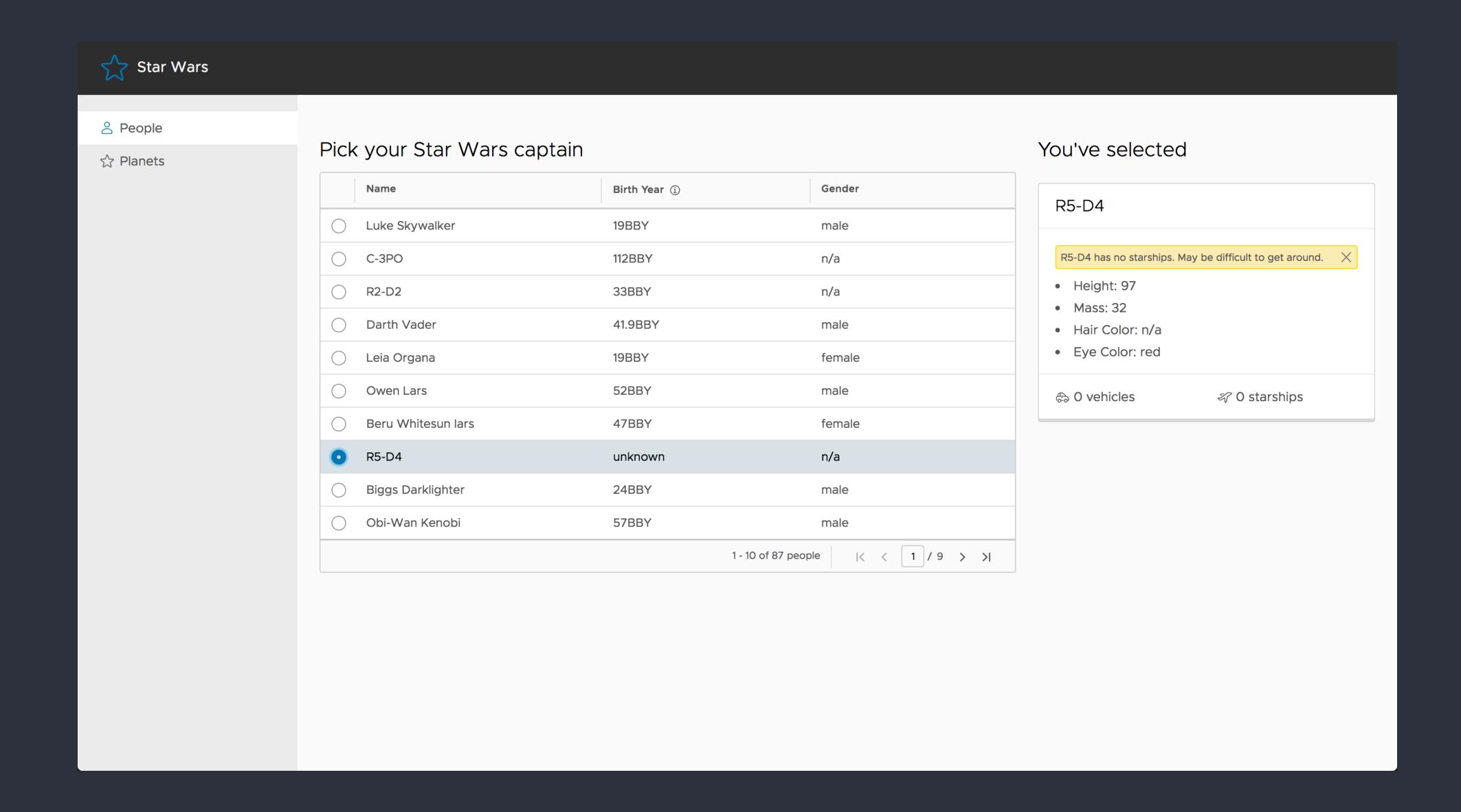
Displaying selection (3)

```
<div class="card-footer">
      <div class="clr-row">
        <div class="clr-col-6">
           <clr-icon shape="car"></clr-icon>
           {{selected.vehicles.length}} vehicles
        </div>
        <div class="clr-col-6">
           <clr-icon shape="plane"></clr-icon>
           {{selected.starships.length}} starships
        </div>
     </div>
</div>
</div>
```

Extra - adding an alert inside the card

```
<div class="card-block">
  <cir-alert *nglf="selected.starships.length == 0"</pre>
      [clrAlertSizeSmall]="true" [clrAlertType]="warning">
    <div class="alert-item">
       <span class="alert-text">
         {{selected.name}} has no starships. May be difficult to get around.
       </span>
    </div>
  </cir-alert>
```

The Final Product



Thank You!

A&A