





Should we update apps to #angular 17?

Przemysław Sokołowski





Przemysław Sokołowski Synergy Codes | Fullstack dev

Github: bboysokol

LinkedIn: przemysław-sokołowski

Agenda

- Harmonogram wydań
- Built-in control flow
- Branding
- Dokumentacja
- Deferrable views
- Styles and style

- SSR and Hydration
- Signals
- New router info parameter
- TypeScript support
- ESBuild and Vite

Harmonogram wydań

DATE
Week of 2024-01-15
Week of 2024-02-12
Week of 2024-03-11
Week of 2024-05-20

Źródło: https://angular.io/guide/releases#release-schedule

Built-in control flow

Built-in control flow wprowadzenie

- Niższy próg wejścia
- Lepsze sprawdzanie typów
- Mniejszy bundle
- Jest dostępny domyślnie
- Znacząca poprawa wydajności

Built-in control flow *nglf

```
<div *ngIf="loggedIn; else anonymousUser">
  The user is logged in
  </div>
<ng-template #anonymousUser>
  The user is not logged in
  </ng-template>
```

```
aif (loggedIn) {
   The user is logged in
} aelse {
   The user is not logged in
}
```

Built-in control flow *ngSwitch

```
<div [ngSwitch]="accessLevel">
    <admin-dashboard *ngSwitchCase="admin"/>
    <moderator-dashboard *ngSwitchCase="moderator"/>
    <user-dashboard *ngSwitchDefault/>
    </div>
```

```
@switch (accessLevel) {
    @case ('admin') { <admin-dashboard/> }
    @case ('moderator') { <moderator-dashboard/> }
    @default { <user-dashboard/> }
}
```

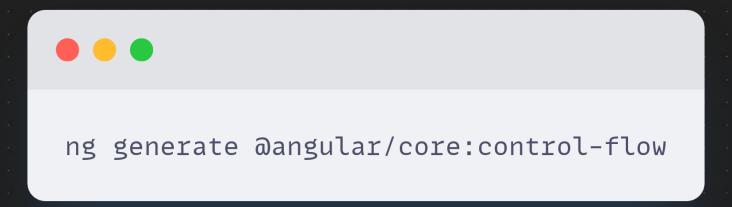
Built-in control flow *ngFor

```
@for (user of users; track user.id) {
    {{ user.name }}
} @empty {
    Empty list of users
}
```

Name Duration for	angular- cf- nozone- v17.0.2	angular- cf-v17.0.2	angular- cf-signals- v17.0.2	angular- ngfor- v17.0.2
Implementation notes				
Implementation link	code	code	code	code
replace all rows updating all 1,000 rows. (5 warmup runs).	51.2 ±0.3 (1.33)	54.4 ±0.4 (1.41)	54.8 ±0.2 (1.42)	54.9 ±0.3 (1.43)
select row highlighting a selected row. (5 warmup runs). 4 x CPU slowdown.	3.9 ±0.2 (1.49)	3.9 ±0.1 (1.47)	5.7 ±0.2 (2.15)	3.9 ±0.1 (1.47)
swap rows swap 2 rows for table with 1,000 rows. (5 warmup runs). 4 x CPU slowdown.	19.9 ±0.4 (1.12)	20.0 ±0.3 (1.12)	19.7 ±0.4 (1.10)	170.1 ± 1.2 (9.52)
remove row removing one row. (5 warmup runs). 2 x CPU slowdown.	16.0 ±0.1 (1.09)	15.9 ±0.2 (1.08)	18.0 ±0.4 (1.22)	16.0 ±0.1 (1.09)
create many rows creating 10,000 rows. (5 warmup runs).	443.6 ± 1.7 (1.21)	446.0 ± 1.5 (1.22)	451.2 ± 1.5 (1.23)	451.4 ± 1.4 (1.23)
clear rows clearing a table with 1,000 rows. (5 warmup runs). 4 x CPU slow- down.	21.2 ±0.5 (1.82)	24.2 ±0.4 (2.08)	24.4 ± 0.3 (2.09)	26.2 ± 0.3 (2.25)
weighted geometric mean of all factors in the ta- ble	1.22	1.25	1.32	1.69

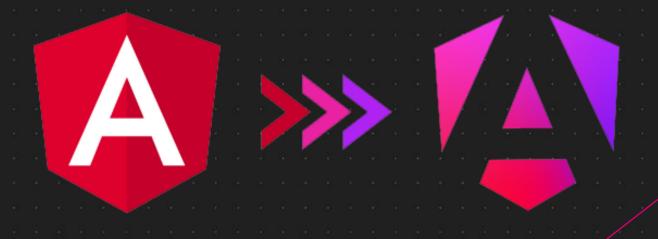
Źródło: https://krausest.github.io/js-framework-benchmark/current.html

Built-in control flow migracja

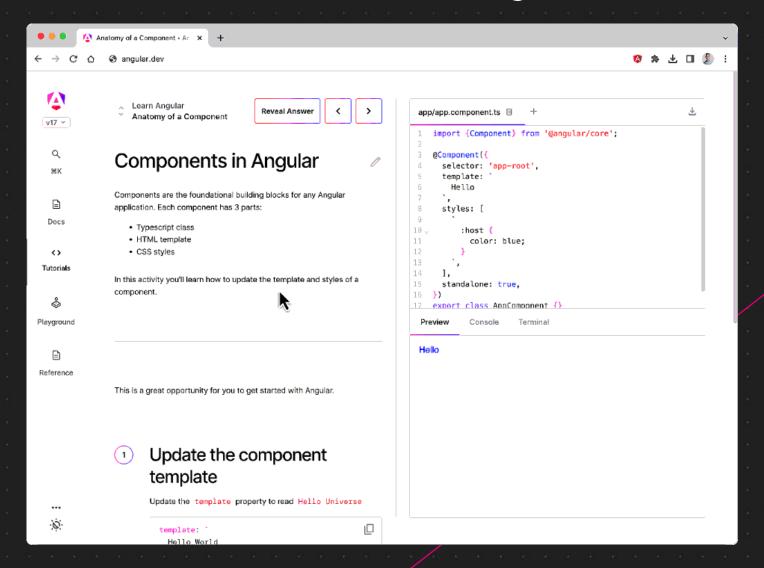


DREGUES 0 0 ANGULAR CONTROL What the bell is this? FLOW SYNTAX imgflip.com

Branding



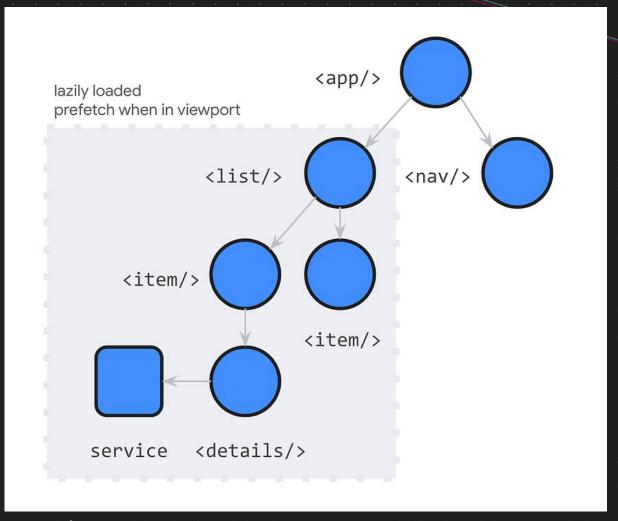
Dokumentacja



Deferrable views

Deferrable views wprowadzenie

Lazy loading przy użyciu deklaratywnej składni



Źródło: https://blog.angular.io/introducing-angular-v17-4d7033312e4b

Deferrable views triggery

- on idle
- on immediate
- on timer(<time>)
- on viewport and on viewport(<ref>)
- on interaction and on interaction(<ref>)
- on hover and on hover(<ref>)
- when <expr>

Deferrable views praktyka

```
adefer {
     <comment-list />
}
```

Przykład z: https://blog.angular.io/introducing-angular-v17-4d7033312e4b

```
adefer (on viewport) {
  <comment-list/>
} aloading {
  Loading...
} @error {
  Loading failed :(
} @placeholder {
  <img src="comments-placeholder.png">
```

Przykład z: https://blog.angular.io/introducing-angular-v17-4d7033312e4b

Deferrable views prefetch

Materiał: https://angular.io/guide/defer

Styles and style

```
aComponent({
  styles: [`
aComponent({
  styleUrls: ['styles.css']
```

```
aComponent({
  styles:
})
aComponent({
  styleUrl: 'styles.css'
})
```

SSR and Hydration

~ npm init @angular@next

Material: https://angular.io/guide/hydration

Signals

SignalsSignal-based inputs

```
aComponent({
    selector: "counter",
    standalone: true,
    template: ` <h1>Counter value: {{ value() }}</h1>`,
})
export class CounterComponent {
    value = input(0);
}
```

Przykład z: https://blog.angular-university.io/angular-signal-inputs

Signals viewChild signal-base queries

```
aComponent({
  selector: "signals-demo",
  template: `
    Parent counter {{ parentCounter }}
    <signal-counter [(count)]="parentCounter" />
  standalone: true,
  imports: [CounterComponent],
})
export class SignalsDemoComponent
   implements AfterViewInit {
  parentCounter = 0;
  aViewChild(SignalCounter)
  counter: SignalCounter;
  ngAfterViewInit() {
    console.log(
    "counter component:", this.counter);
```

```
aComponent({
   selector: 'signals-demo',
   template:
     Parent counter
       {{ parentCounter }}
     <signal-counter #counter</pre>
        [(count)]="parentCounter" />
  standalone: true,
   imports: [CounterComponent],
export class SignalsDemoComponent {
   parentCounter = 0;
   counter = viewChild(CounterComponent);
   constructor() {
     effect(() \Rightarrow \{
       console.log('counter component:', this.counter());
     });
```

Przykład z: https://blog.angular-university.io/angular-signal-inputs

Signals
viewChildren, contentChild, contentChildren

```
counters = viewChildren(CounterComponent);
```

Przykład z: https://blog.angular-university.io/angular-signal-inputs

Signals Model two-way binding

```
aComponent({
  selector: "signals-demo",
  template: `
    Parent counter {{ parentCounter }}
    <signal-counter [(count)]="parentCounter" />
  standalone: true,
  imports: [CounterComponent],
export class SignalsDemoComponent {
  parentCounter = 0;
```

New router info parameter

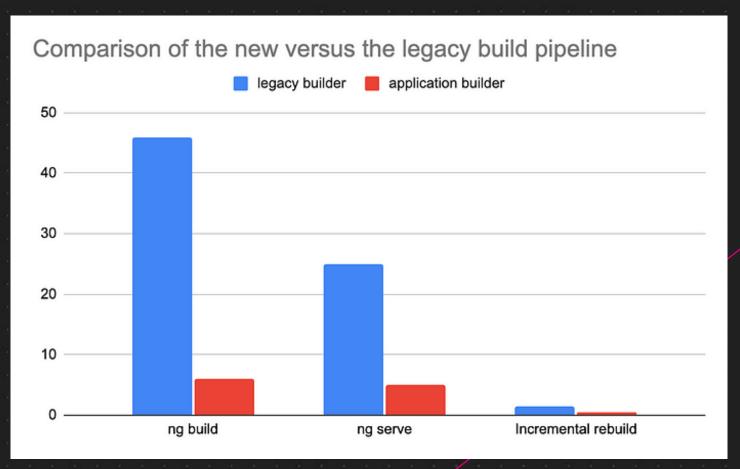
```
aComponent({...})
export class HomeComponent {
  constructor(private router: Router) {
  ngOnInit() {
    this.router.events
       .pipe(
        filter((e) \Rightarrow e instanceof NavigationEnd),
        map((e) \Rightarrow
             this.router
                  .getCurrentNavigation()
                      ?.extras.info)
       .subscribe((info) \Rightarrow {
        console.log(info);
      });
```

```
<button (click)="onIncrement()">
    Increment
</button>
<button
    routerLink="home"
    [info]="{hello: 'world'}">
    Navigate to Home
</button>
```

Przykład z: https://blog.angular.io/introducing-angular-v17-4d7033312e4b

Support for TypeScript 5.2

esbuild and vite

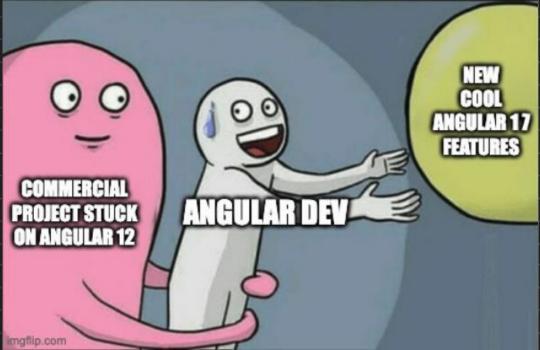


Przykład z: https://blog.angular.io/introducing-angular-v17-4d7033312e4b



synergy codes

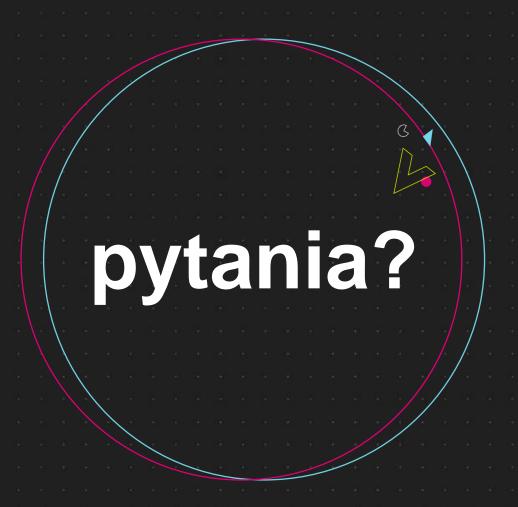




To zależy



synergy codes



synergy codes

Materialy

- https://blog.angular.io/introducing-angular-v17-4d7033312e4b
- https://www.youtube.com/watch?v=36Hcx7kRYDg
- https://blog.angular-university.io/angular-17-1-release/
- https://blog.angular-university.io/angular-17-2-release/
- https://krausest.github.io/js-framework-benchmark/current.html
- https://blog.angular-university.io/angular-signal-inputs
- https://angular.io/guide/hydration





synergy codes