



#angular 17

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Agenda

- Harmonogram
- Built-in control flow
- Deferrable views
- Smaller changes



Harmonogram wydań

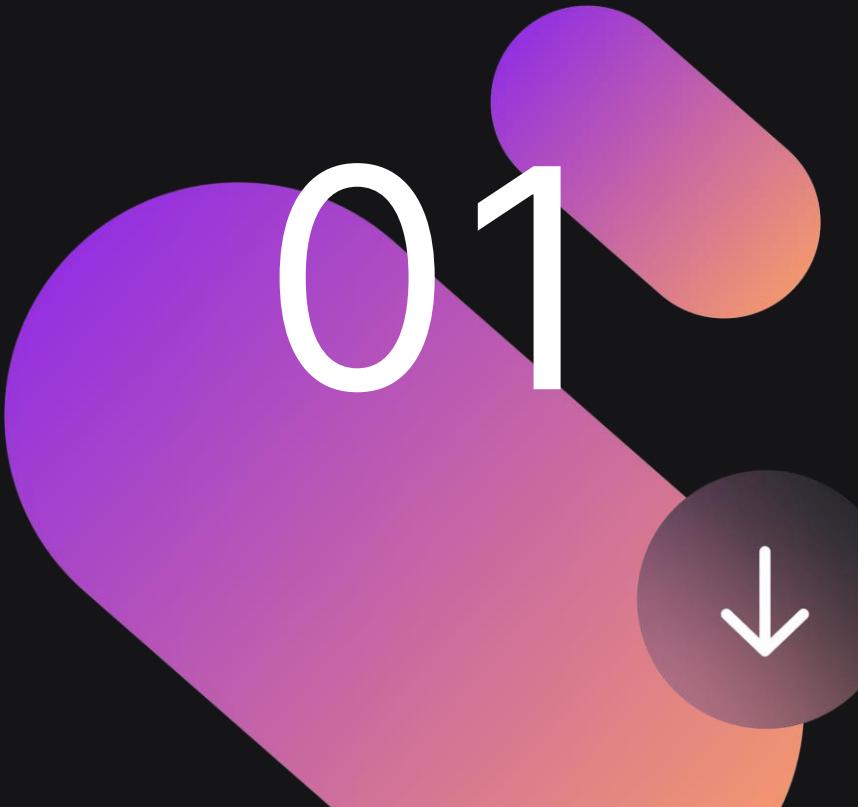
Release schedule

VERSION	DATE
v17.1	Week of 2024-01-15
v17.2	Week of 2024-02-12
v17.3	Week of 2024-03-11
v18.0	Week of 2024-05-20

#angular 17

Built-in control flow

Nowe podejście do definicji templates
w angularze



01



Wprowadzenie

- Niższy próg wejścia
- Poprawione sprawdzanie typów
- Mniejszy bundle size
- Domyślnie dostępne
- Znacząca poprawa wydajności

*ngIf

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

```
@if (loggedIn) {  
  The user is logged in  
} @else {  
  The user is not logged in  
}
```

*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> }  
}
```

*ngFor

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

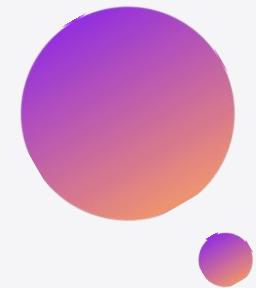
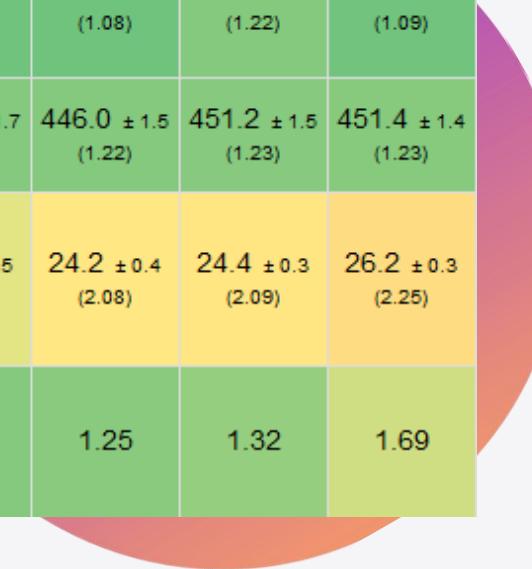
Built-in control flow



Deferrable views

Smaller changes

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



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Built-in control flow

Migracja

Migracja

```
ng generate @angular/core:control-flow
```

Smaller changes

Deferrable views

Built-in control flow



#angular 17

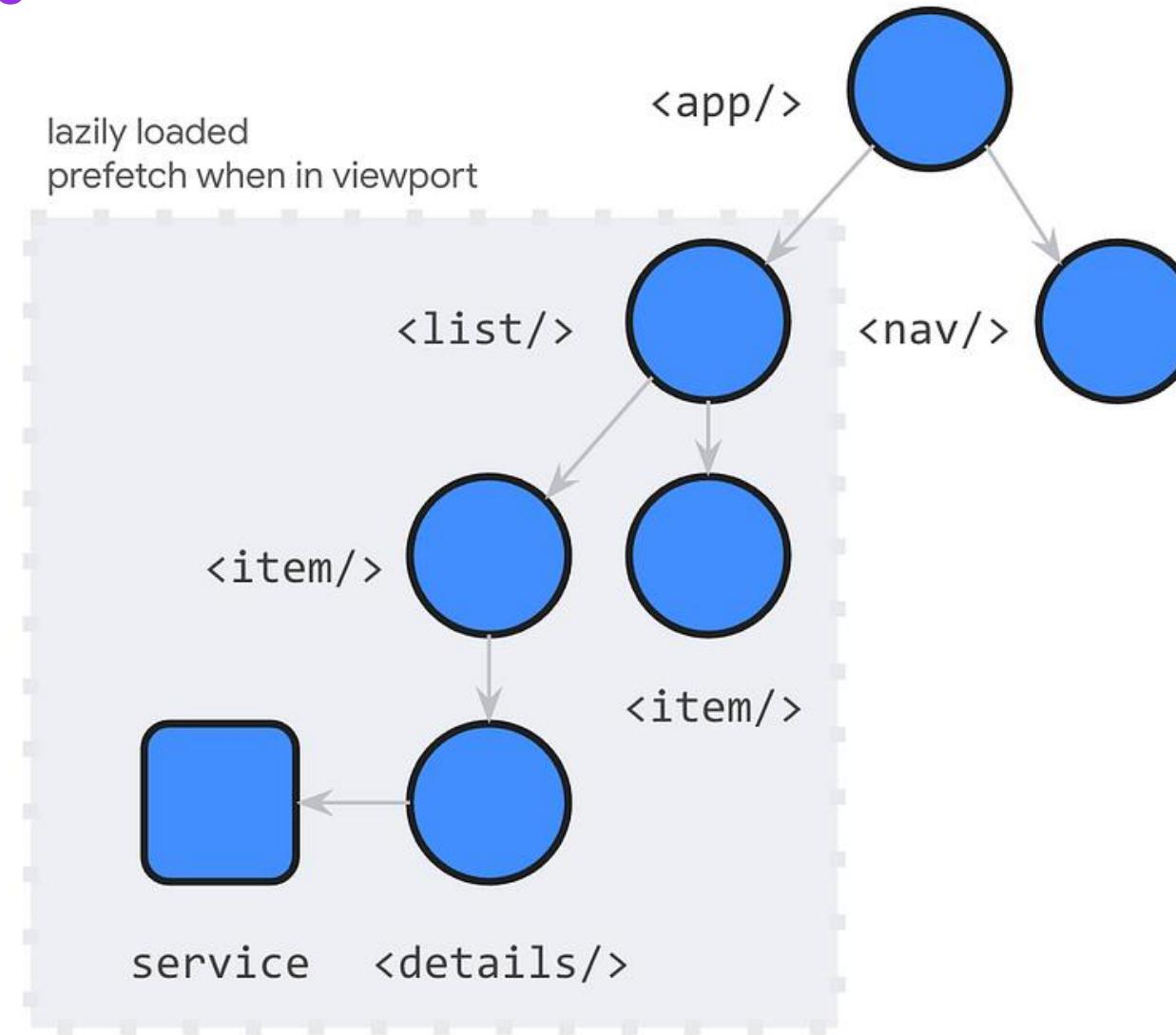
Deferrable views

Wczytywanie komponentów nabiera nowego znaczenia. Lazy loading?

02



Wprowadzenie



Wprowadzenie



Welcome to LazyLoadingTestApp!

- [Lazy Loading](#)

Name	Status	Type	Initiator	Size	Waterfall
websocket	101	websoc...	sockjs.js:1683	0 B	P.
localhost	304	docume...	Other	210 B	3.
runtime.js	304	script	(index)	211 B	1.
polyfills.js	304	script	(index)	212 B	1.
styles.js	304	script	(index)	211 B	9.
vendor.js	304	script	(index)	213 B	2.
main.js	304	script	(index)	211 B	2.
info?t=1648214193011	200	xhr	zone.js:3243	368 B	6.
favicon.ico	304	vnd.mic...	Other	211 B	7.

Wprowadzenie

Welcome to LazyLoadingTestApp!

- [Lazy Loading](#)

Demo Component Loaded

Name	Headers	Preview	Response	Initiator	Timing	Cookies
localhost						
runtime.js						
polyfills.js						
styles.js						
vendor.js						
main.js						
info?t=1648214193011						
favicon.ico						
websocket						
0js						

```
(window["webpackJsonp"] = window["webpackJsonp"] || []).push([{"$": "0js", "main": true}], [{"url": "http://localhost:4200/test"}]);
```

1 (window["webpackJsonp"] = window["webpackJsonp"] || []).push([{"\$": "0js", "main": true}], [{"url": "http://localhost:4200/test"}]);
2
3 /*! ./src/app/feature-module-example/demo-component.ts */
4 /*! ./src/app/feature-module-example/demo-component.ts */
5 /*! ./src/app/feature-module-example/demo-component.ts */
6 /*! ./src/app/feature-module-example/demo-component.ts */
7 /*! no static exports found */
8 /*! (function(module, exports) {
9
10 module.exports = "<p>\n Demo Component Loaded\n</p>";
11
12 /*! }));
13
14 /*! ./src/app/feature-module-example/demo-component.ts */
15 /*! ./src/app/feature-module-example/demo-component.ts */
16 /*! ./src/app/feature-module-example/demo-component.ts */
17 /*! ./src/app/feature-module-example/demo-component.ts */
18 /*! no static exports found */
19 /*! (function(module, exports) {
20

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>

Praktyka

```
@defer {  
  <comment-list>  
}
```

```
@defer (on viewport) {  
  <comment-list>  
} @placeholder {  
  /* A placeholder content to show until the comments load */  
    
}
```

Praktyka

```
@defer (on viewport) {  
    <comment-list>  
} @loading {  
    Loading...  
} @error {  
    Loading failed :(  
} @placeholder {  
      
}
```

Prefetch

```
@defer (on interaction; prefetch on idle) {  
  <calendar-cmp />  
}  
@placeholder {  
    
}
```

#angular 17

Smaller changes

Zbiór kilku mniejszych zmian, które pojawiły się razem z nową wersją

03



Branding



Dokumentacja

The screenshot shows a browser window displaying the Angular documentation. The URL is `angular.dev`. The page title is "Components in Angular". On the left, there's a sidebar with links for "Docs", "Tutorials", "Playground", and "Reference". The main content area has a large purple circular graphic at the top. Below it, there's a heading "Components in Angular" and some descriptive text about components having three parts: TypeScript class, HTML template, and CSS styles. A list item "1 Update the component template" is highlighted with a purple circle. At the bottom, there's a code editor showing `app/app.component.ts` with the following code:

```
1 import {Component} from '@angular/core';
2
3 @Component({
4   selector: 'app-root',
5   template: `
6     Hello
7   `,
8   styles: [
9     `
10       :host {
11         color: blue;
12       }
13     `,
14   ],
15   standalone: true,
16 })
17 export class AppComponent {}
```

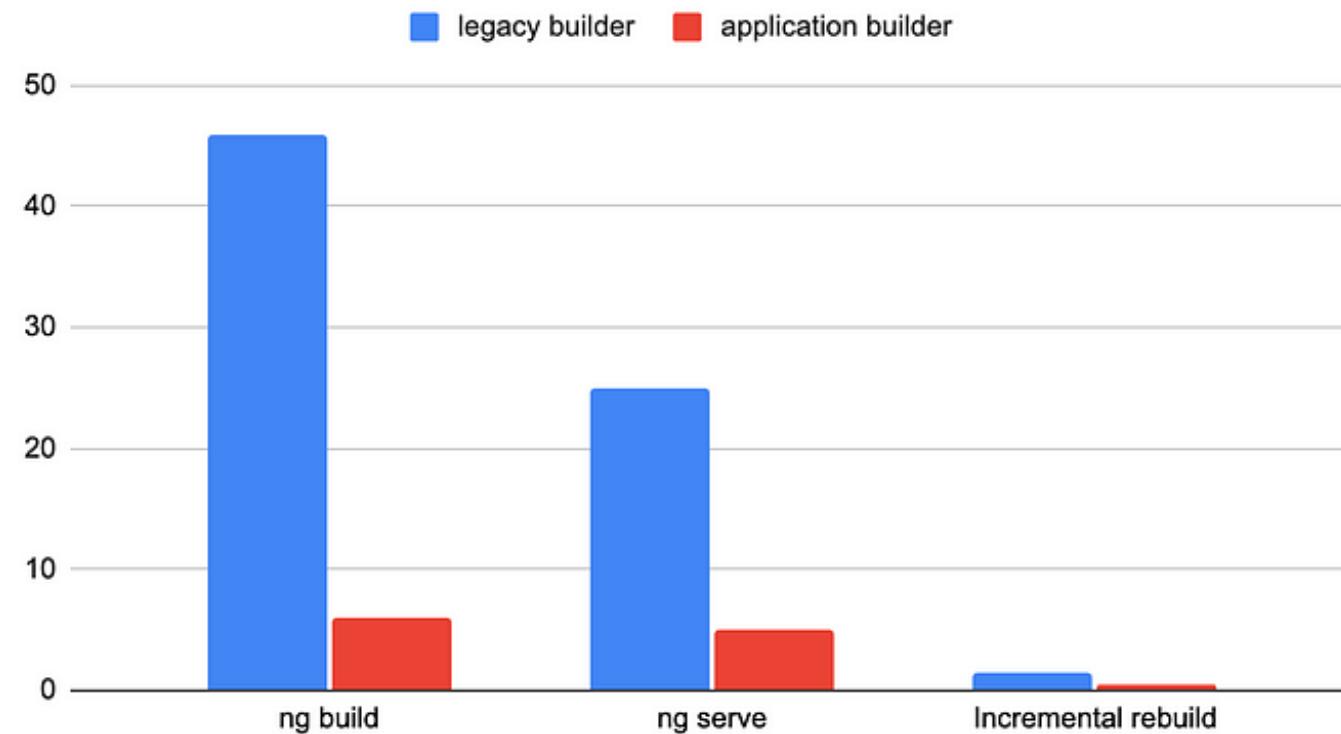
Below the code editor is a "Preview" section showing the output "Hello". There are also "Console" and "Terminal" tabs.

Signals

- signal-based inputs
- signal-based viewChild/ren queries
- signal-based contentChild/ren queries
- two-way model binding

Esbuild and vite

Comparison of the new versus the legacy build pipeline



Smaller changes

Deferrable views

Built-in control flow





dzięki!



pytania?



- <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>

