

# Angular Fundamentals

## day 4 - Short recap



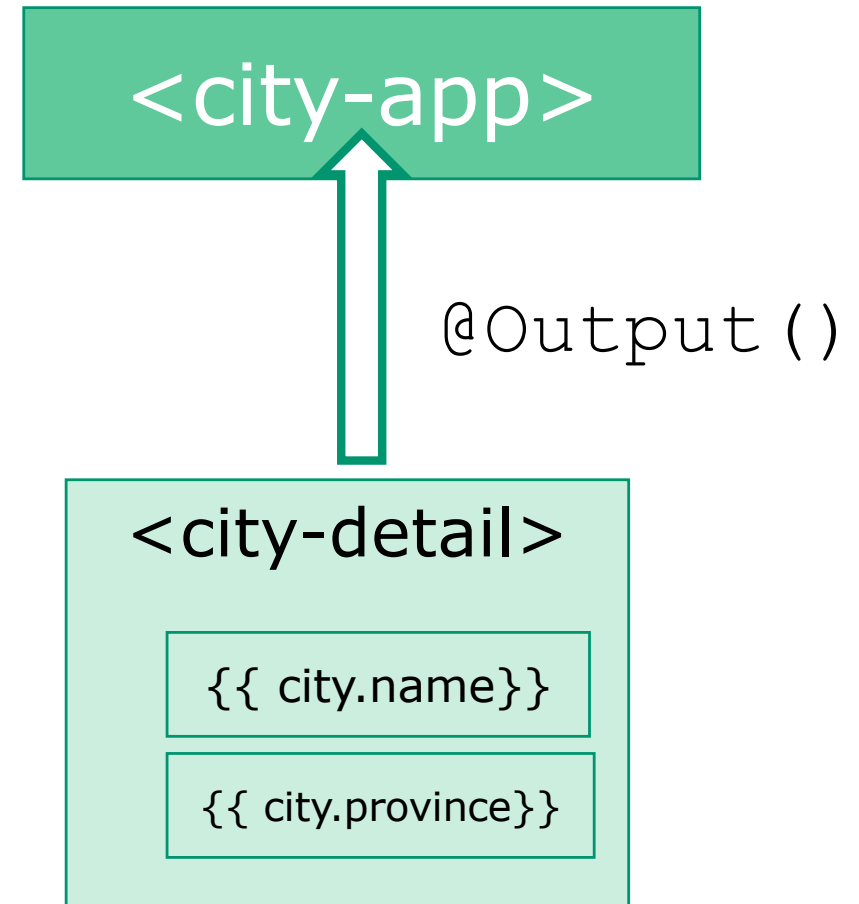
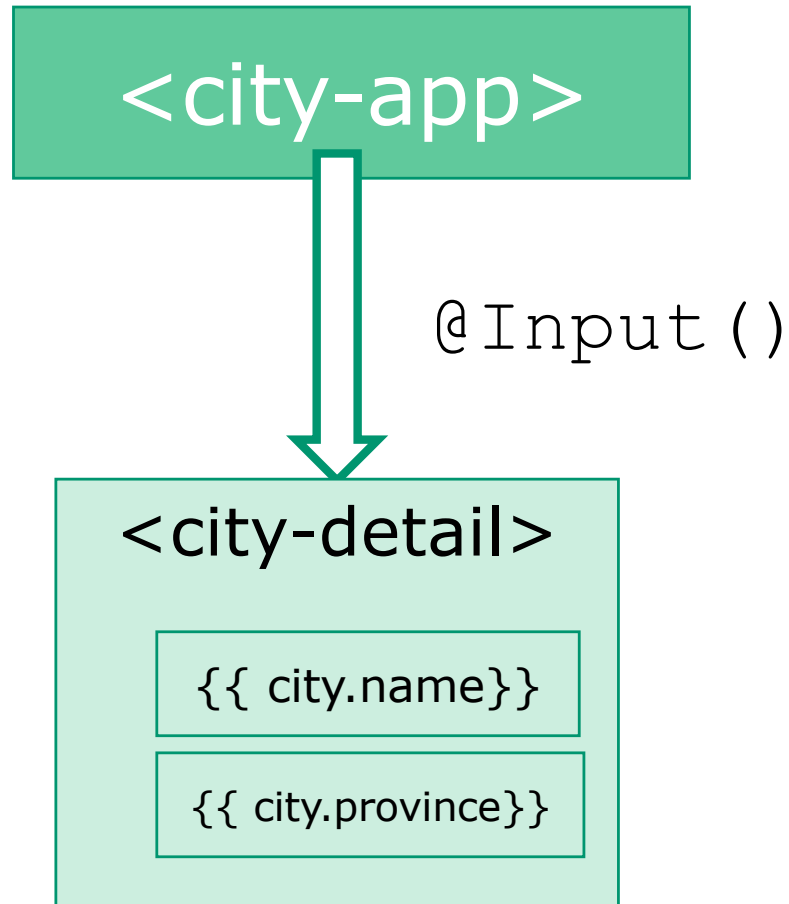
**Atos**

Peter Kassenaar –  
[info@kassenaar.com](mailto:info@kassenaar.com)

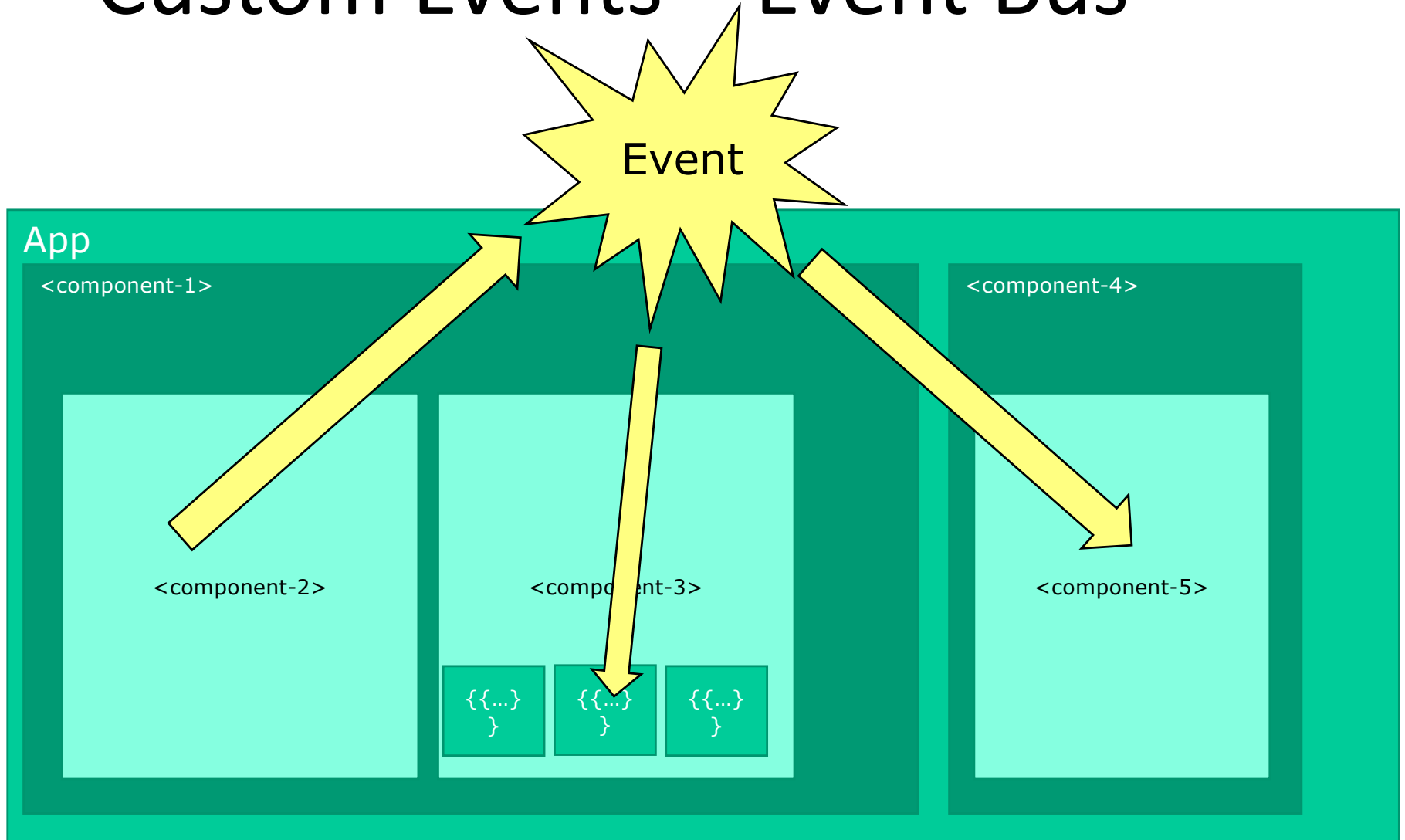
# Yesterday

- Component Communication
  - `@Input()` and `@Output()`
- Writing an Event bus
  - `Subject<Type>()`
- Routing
  - Basic Routing
  - Routing Parameters
  - Observable params
- Form – Template Driven Forms

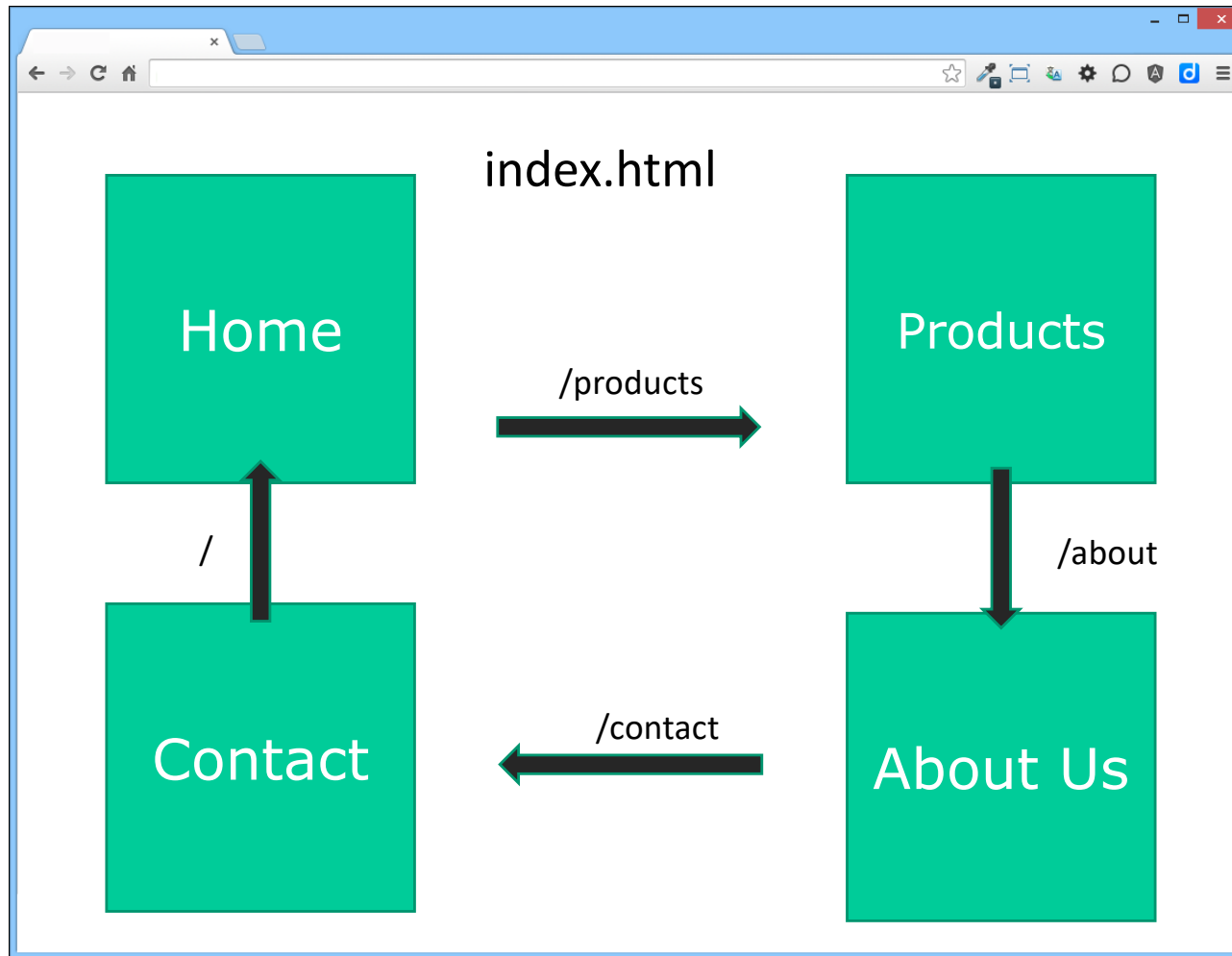
# Component Communication



# Custom Events – Event Bus



# Routing architecture






- Use `RouterModule.forRoot(routes)`


# Today

- Model driven **Forms**
- Architecture for **enterprise applications**
  - Using multiple modules in your app
- Advanced Routing: **Lazy loading** modules
  - `PreloadAllModules` & Custom Loading strategies
- **Unit Testing** - E2E Testing
- Angular in the enterprise / **architecture** for bigger applications
- (Introduction - State Management with @ngrx/store)
- Evals & Goodbye

# Extra – UI Libraries

 Getting Started Components

 Star 6,131  Tweet #ngbootstrap



## Bootstrap widgets

### The angular way

Angular widgets built from the ground up using only Bootstrap 4 CSS with APIs designed for the Angular ecosystem.

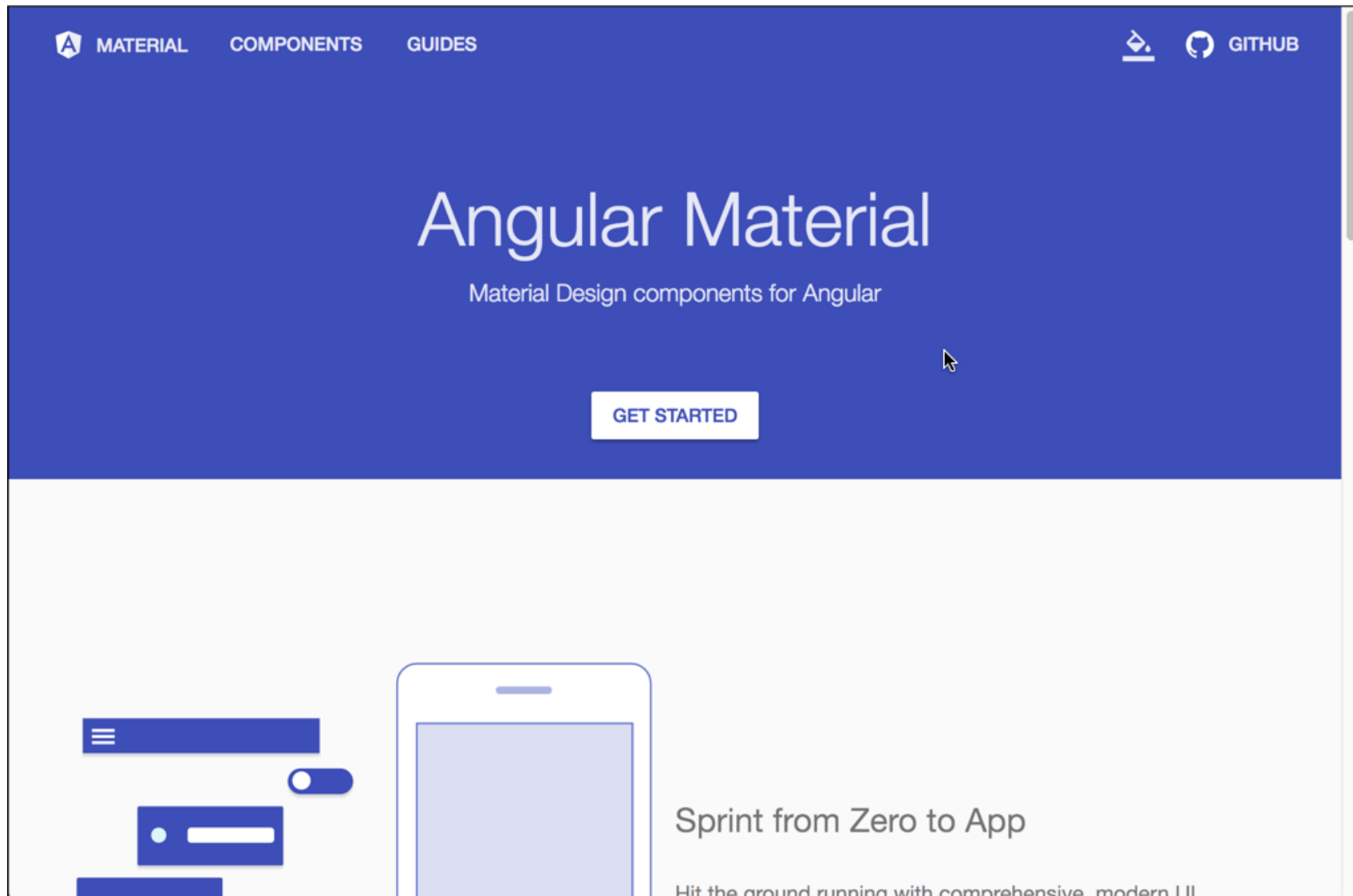
No dependencies on 3rd party JavaScript.

[Demo](#) [Installation](#)

Currently at v3.3.0


<https://ng-bootstrap.github.io/#/home>

# Extra – UI Libraries



<https://material.angular.io/>





GET STARTEDTHEMESUPPORT

Input

Button

Data

Panel

Overlay

File

Menu

Charts

Messages

Multimedia

DragDrop

Misc


# The Most Complete User Interface Suite for Angular

GET STARTED

## Why PrimeNG?


Congratulations! 🎉 Your quest to find the UI library for Angular is complete.

PrimeNG is a collection of rich UI components for Angular. All widgets are open source and free to use under MIT License. PrimeNG is developed by [PrimeTek Informatics](#), a vendor with years of expertise in developing open source UI solutions. For project news and updates, please follow us on [twitter](#) and visit our [blog](#).




### 70+ COMPONENTS

The most complete set of native widgets featuring 70+ easy to use components for all your UI requirements.



### OPEN SOURCE

Hosted at [GitHub](#), all widgets are open source and free to use under MIT license. Feel the power of open source.



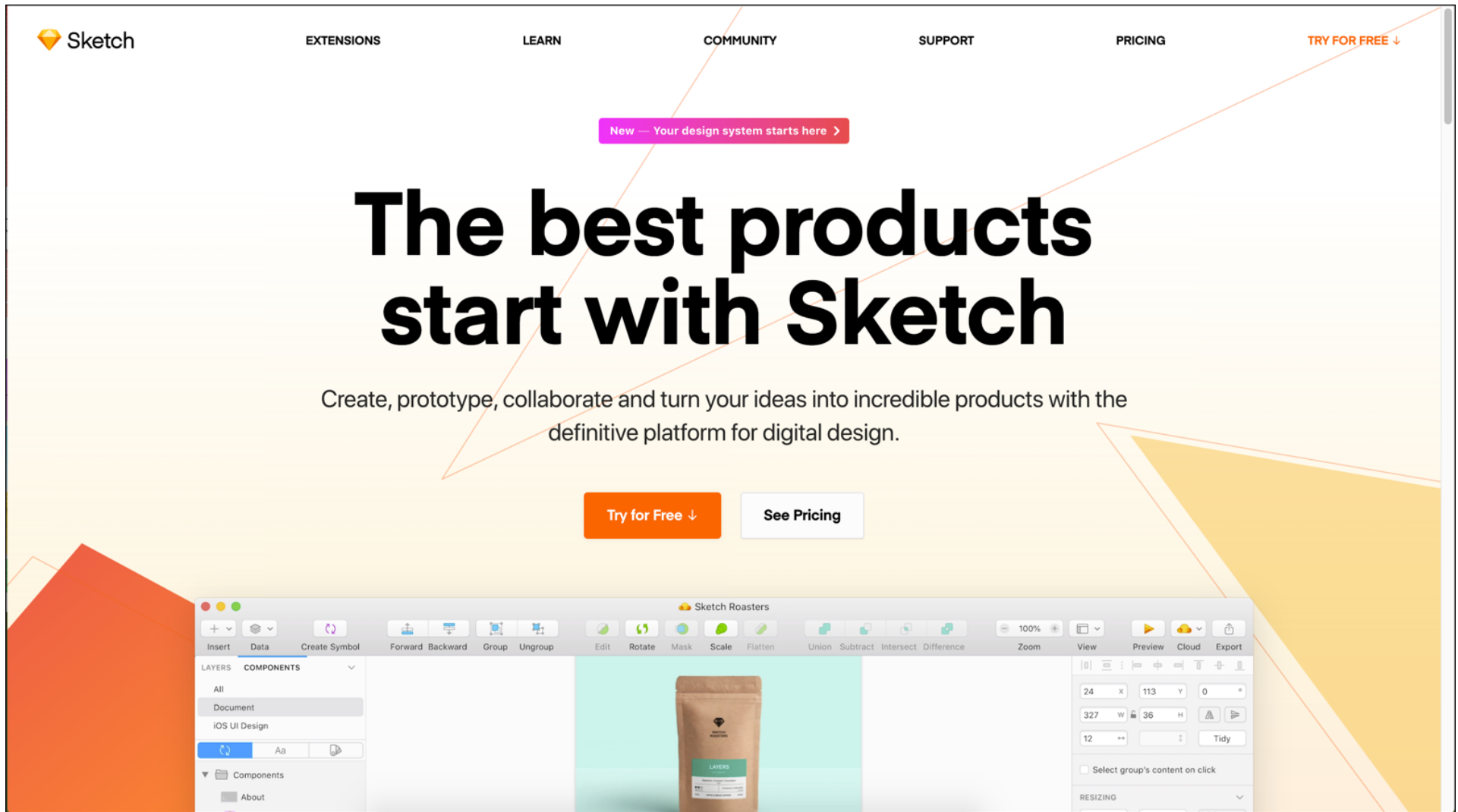
### PRODUCTIVITY

Allocate your valuable time on business logic rather than dealing with the complex user interface requirements.

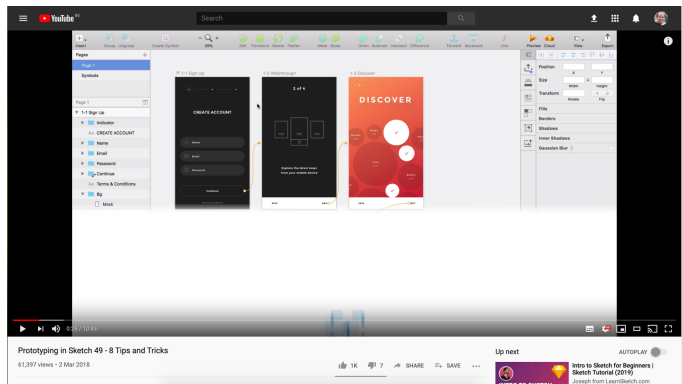
<https://www.primefaces.org/primeng/#/>

9

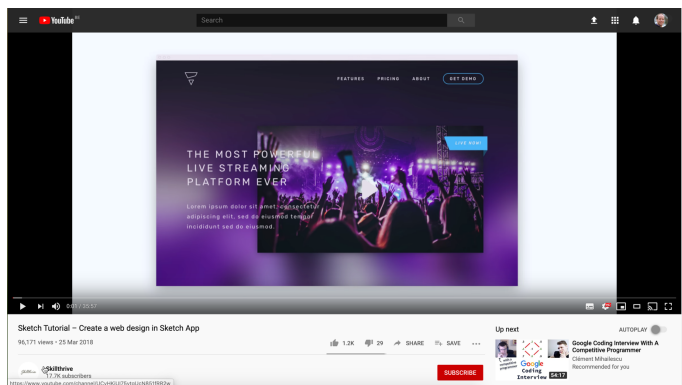
# Sketch – a Complete Visual Design Tool



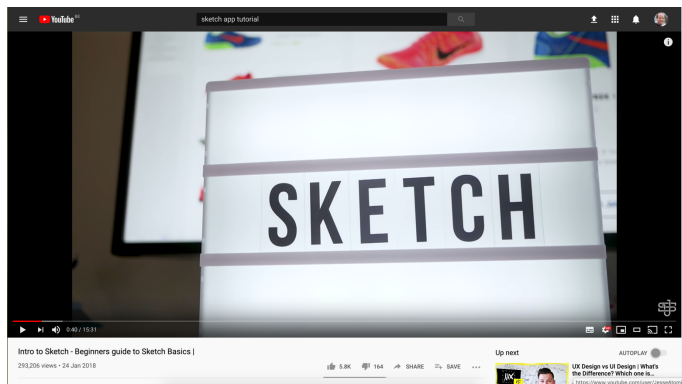
[www.sketch.com/](https://www.sketch.com/)



<https://www.youtube.com/watch?v=hE0dycKVCbl>



<https://www.youtube.com/watch?v=kFOTriKrsZg>

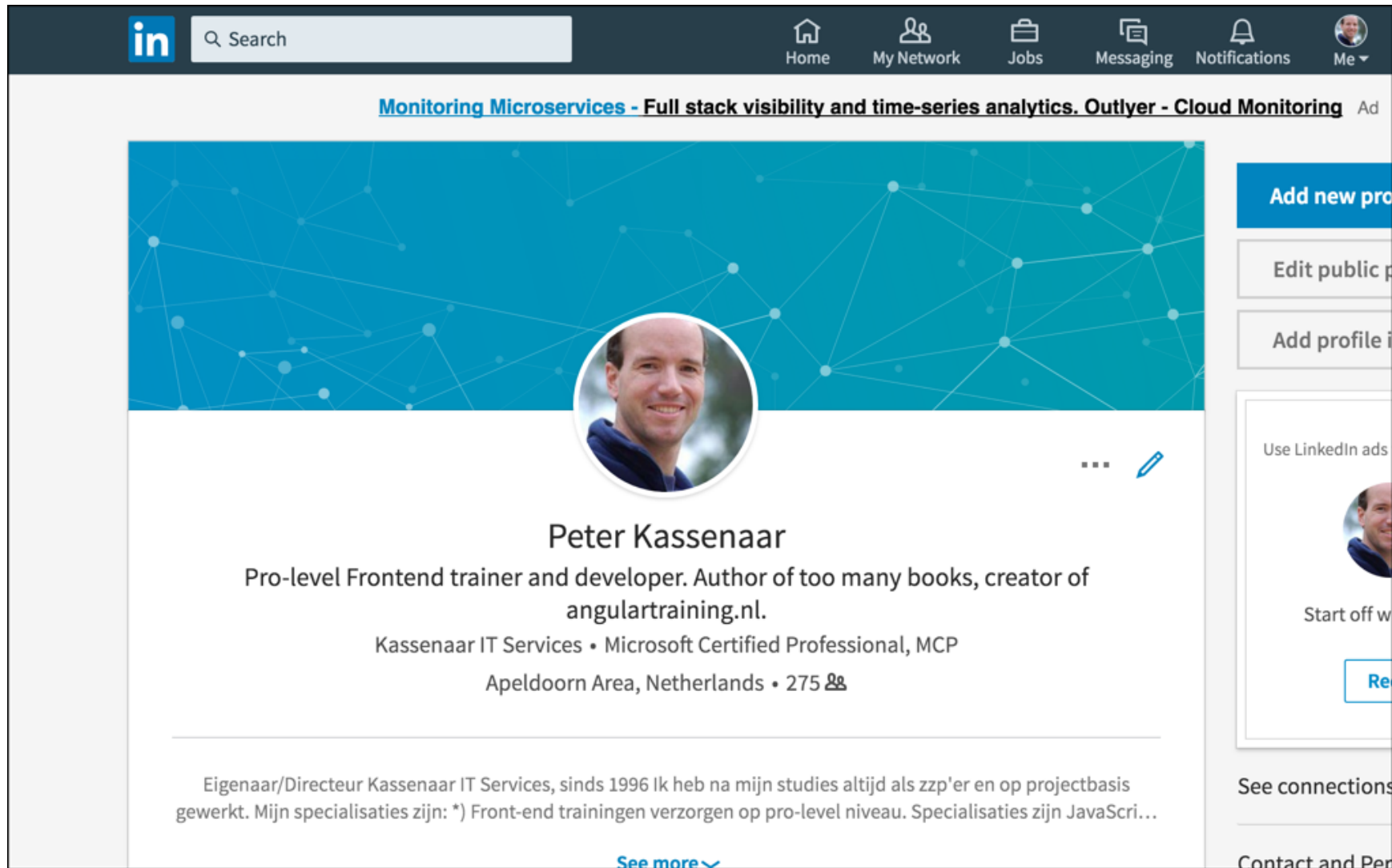


<https://www.youtube.com/watch?v=qywBOJHQeC4>



*Eval time*

# Let's keep in touch



The image is a screenshot of a LinkedIn profile page for Peter Kassenaar. The top navigation bar includes the LinkedIn logo, a search bar, and icons for Home, My Network, Jobs, Messaging, Notifications, and a profile dropdown. Below the navigation bar, there is a banner image with a blue background and a network diagram. The profile picture of Peter Kassenaar is centered below the banner. To the right of the profile picture are three dots and an edit icon. The profile name "Peter Kassenaar" is displayed below the picture, followed by his title "Pro-level Frontend trainer and developer. Author of too many books, creator of angulartraining.nl." and his company "Kassenaar IT Services • Microsoft Certified Professional, MCP". His location "Apeldoorn Area, Netherlands • 275 88" is also shown. Below this, there is a section for his bio, which starts with "Eigenaar/Directeur Kassenaar IT Services, sinds 1996 Ik heb na mijn studies altijd als zzp'er en op projectbasis gewerkt. Mijn specialisaties zijn: \*) Front-end trainingen verzorgen op pro-level niveau. Specialisaties zijn JavaScri...". A "See more" link is visible at the bottom of the bio section. On the right side of the profile, there are buttons for "Add new pro...", "Edit public p...", and "Add profile i...". Below these buttons, there is a section for "Use LinkedIn ads" with a small profile picture and the text "Start off w...". At the bottom right, there are links for "See connections" and "Contact and Per...".

Monitoring Microservices - Full stack visibility and time-series analytics. Outlyer - Cloud Monitoring Ad

**Peter Kassenaar**  
Pro-level Frontend trainer and developer. Author of too many books, creator of angulartraining.nl.  
Kassenaar IT Services • Microsoft Certified Professional, MCP  
Apeldoorn Area, Netherlands • 275 88

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See more

Add new pro...  
Edit public p...  
Add profile i...  
Use LinkedIn ads  
Start off w...  
See connections  
Contact and Per...

<https://www.linkedin.com/in/peterkassenaar/>

# If you liked it, endorse

The screenshot shows a LinkedIn profile page. At the top is a dark blue navigation bar with the LinkedIn logo, a search bar, and icons for Home, My Network (with a red notification badge), Jobs, Messaging, Notifications, and a profile picture. On the right of the bar is a 'Try Premium for Free' button. Below the navigation bar, the profile content is divided into sections. The first section shows a snippet of education: 'duursporten (lopen, zwemmen, fietsen, roeien, schaatsen). Laatste jaar in combinatie met studie Bewegingswetenschappen, Rijksuniversiteit Groningen (RUG).'. Below this is a 'See more education' link. The next section is 'Featured Skills & Endorsements', which is circled in red. It has a title 'Featured Skills & Endorsements' and an 'Add a new skill' button with a pencil icon. Below the title are three skill entries: 'Teaching' with 3 endorsements from 'Youri Pattynama and 2 connections', 'TypeScript' with 3 endorsements from 'Youri Pattynama and 2 connections', and 'Angular' with 2 endorsements from 'Momen El Kamri and 1 connection'. A 'See 26 more skills' link is at the bottom of this section. Below the skills section is a 'Recommendations' section with an 'Ask to be recommended' button and a pencil icon. On the right side of the profile, there is a blue button 'Add new profile section' and a 'Messaging' button at the bottom with a green dot and a pencil icon.

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Laatste jaar in combinatie met studie Bewegingswetenschappen, Rijksuniversiteit Groningen (RUG).

See more education ▾

**Featured Skills & Endorsements** Add a new skill ✎

Teaching · 3 Youri Pattynama and 2 connections have given endorsements for this skill

TypeScript · 3 Youri Pattynama and 2 connections have given endorsements for this skill

Angular · 2 Momen El Kamri and 1 connection have given endorsements for this skill

See 26 more skills ▾

Recommendations Ask to be recommended ✎

● Messaging ✎ ⚙

<https://www.linkedin.com/in/peterkassenaar/>



[www.angulartraining.nl](http://www.angulartraining.nl)