

Forget bad code,
Focus on the system

how architectural complexity rules your work



Adam Rackis
@AdamRackis · [Follow](#)



Server actions 🔥



6:22 PM · Oct 26, 2023



3.9K Reply Copy link

[Read 825 replies](#)

@swizec

that's how JSX felt
10 years ago

separation
of
concerns

@swizec





1990's



<https://www.ebay.com/item/175866982346>

2010's

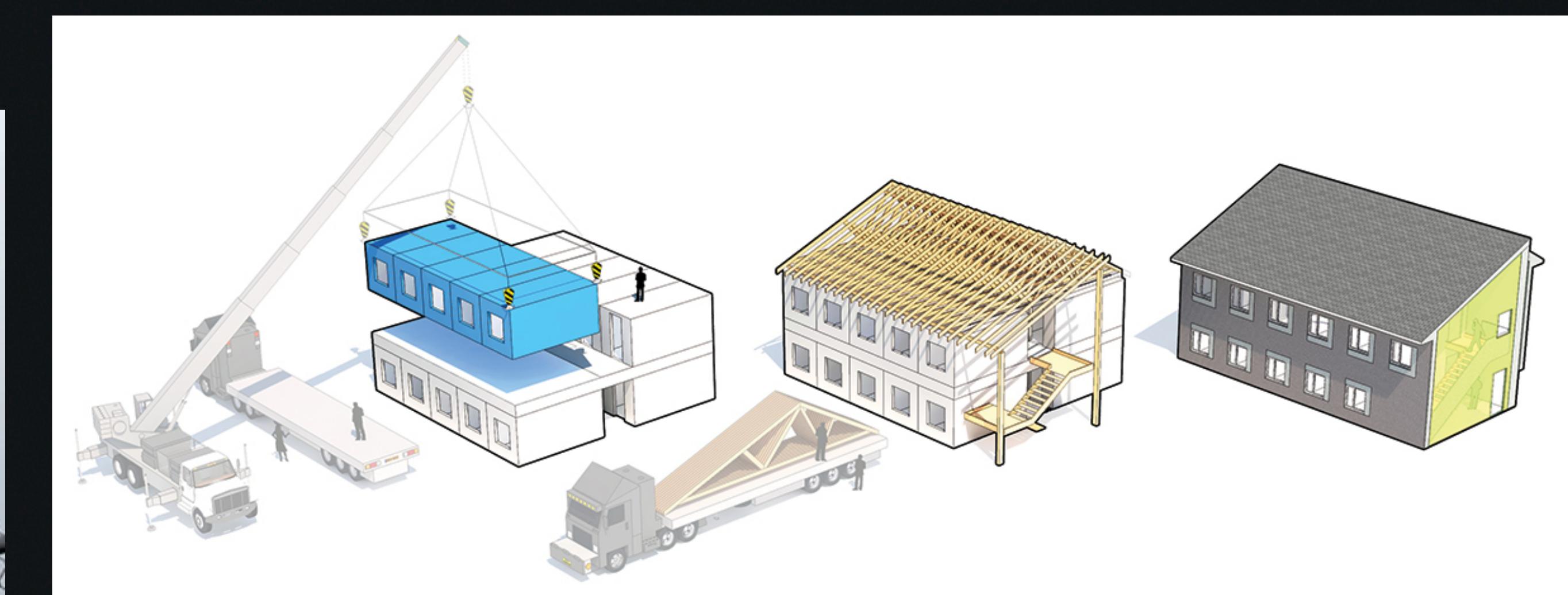


<https://10minuteastronomy.wordpress.com/2017/08/02/the-lego-ideas-saturn-v/>

@swizec



<https://www.realprojectives.com/the-advantages-and-challenges-of-modular-construction/>



<https://holstarc.com/news/modular-construction-in-affordable-housing>



@swizec

<https://www.surepods.com>



<https://www.stuff.co.nz/life-style/home-property/91008805/prefab-pods-and-inexpensive-modular-housing-on-show-at-inex-design-expo>

managing

Architectural Complexity

Architectural complexity accounts for

- 50% drops in productivity,
- 3x increases in defect density,
- 10x increases in staff turnover

Daniel Sturtevant



@swizec



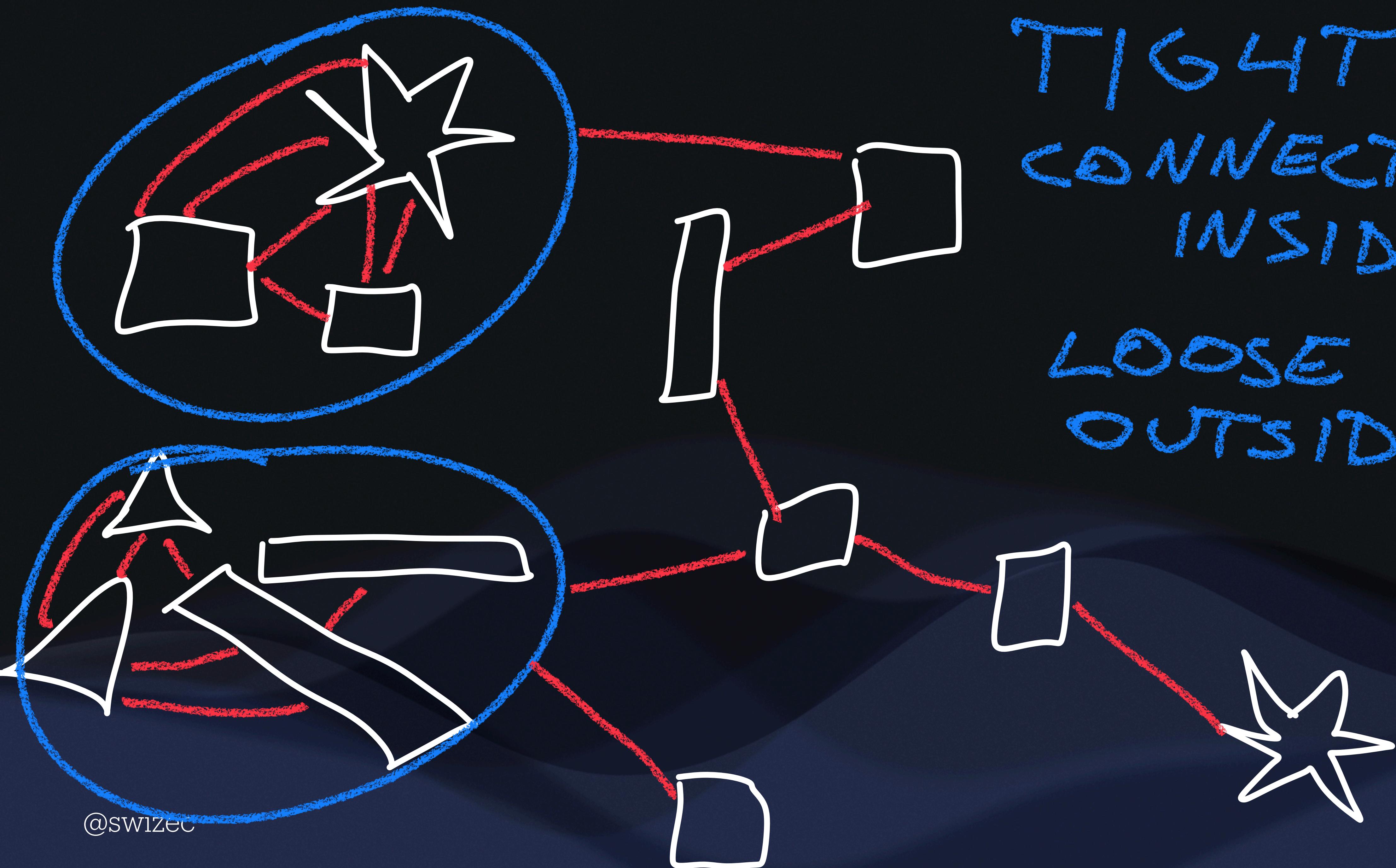
@swizec



@swizec

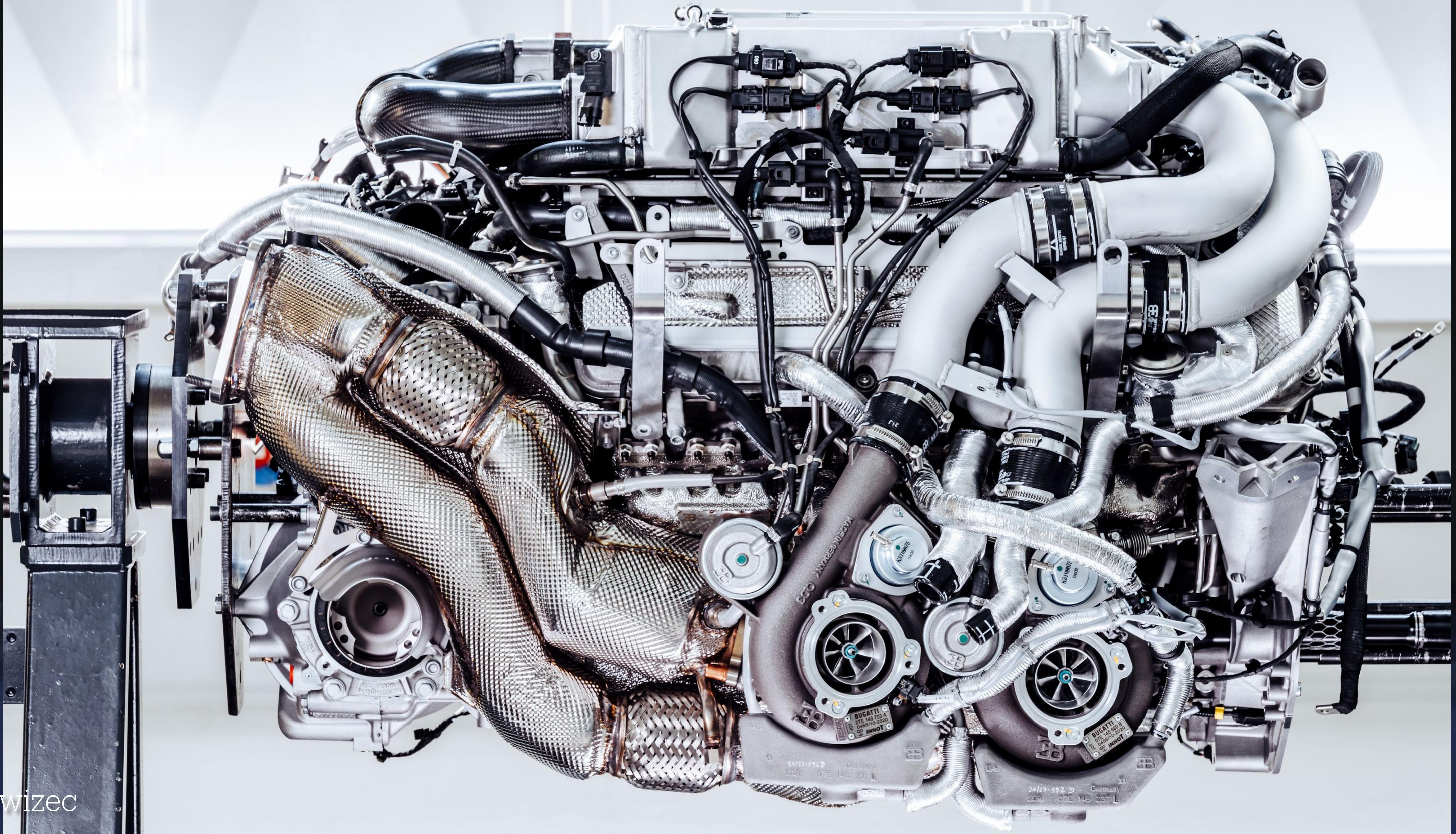
TIGHT
CONNECTION
INSIDE

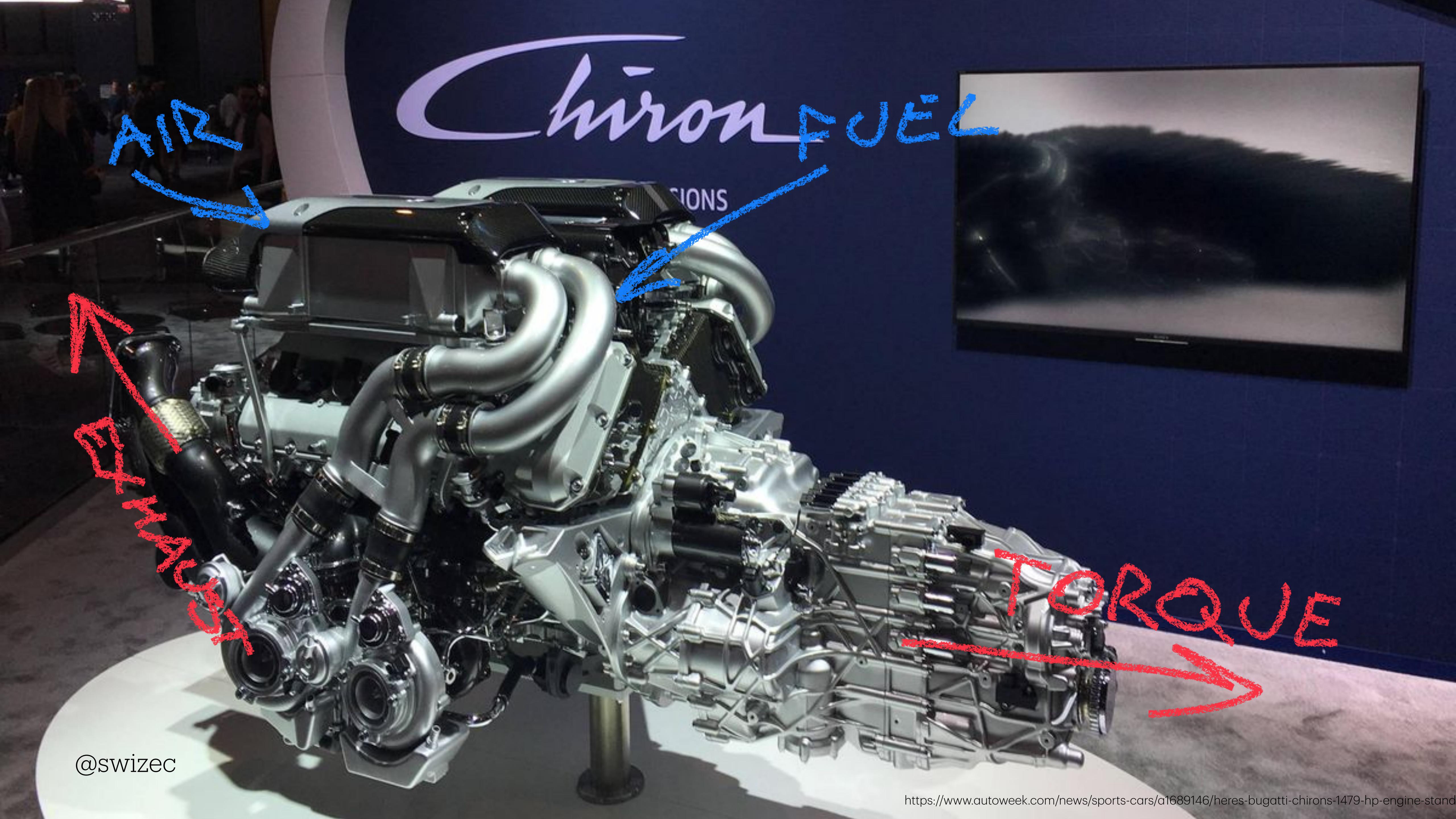
LOOSE
OUTSIDE





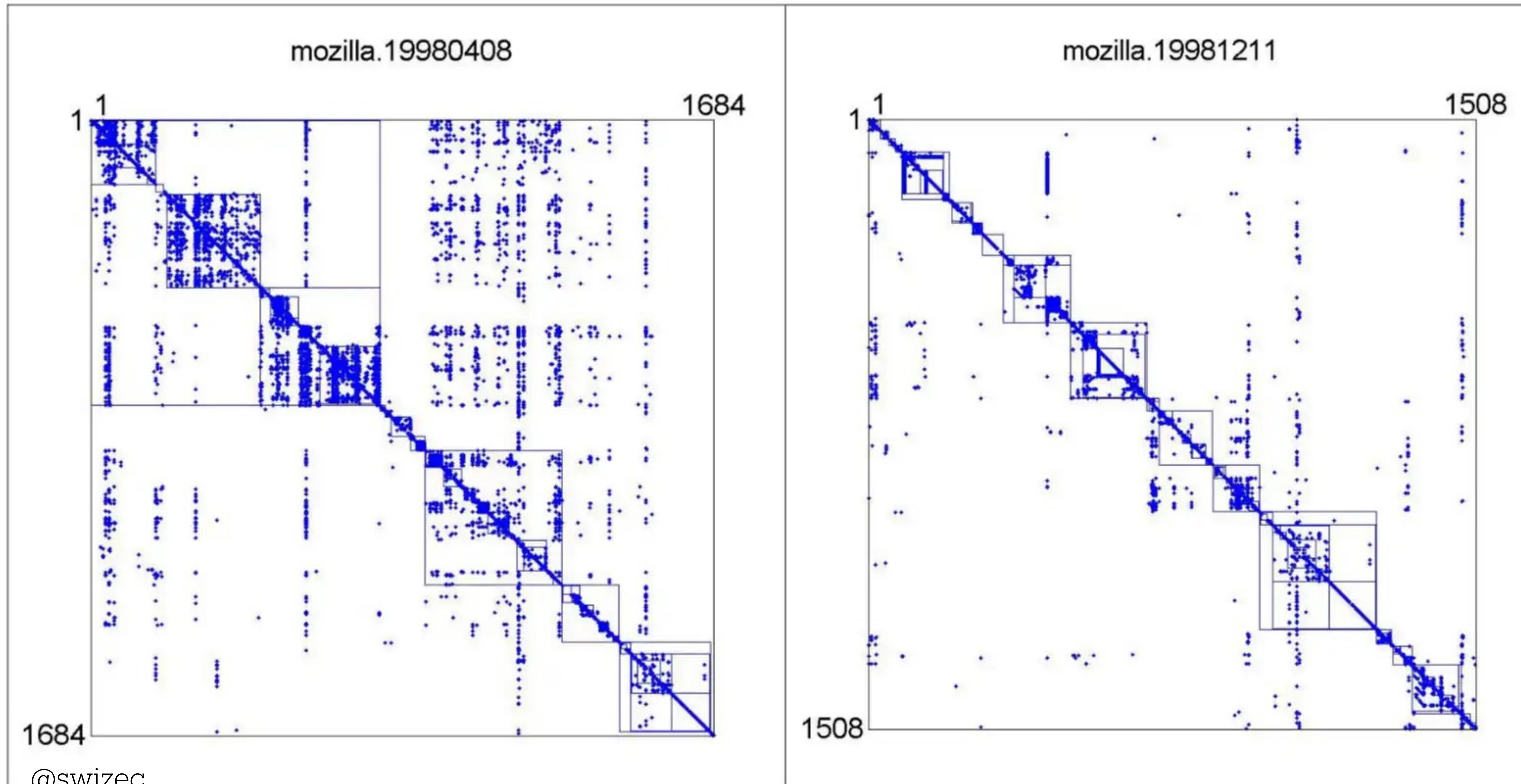
@swizec





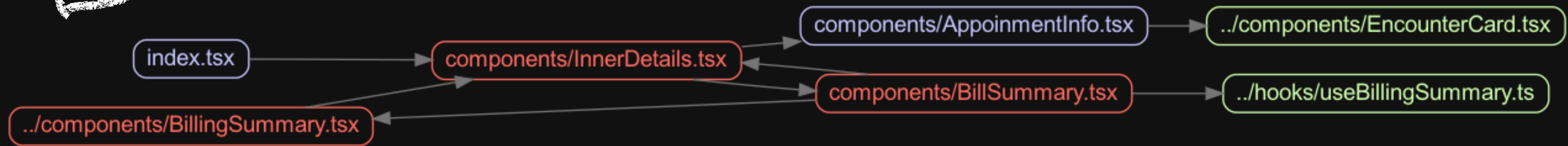
@swizec

Exhibit 5: A Comparison of Mozilla before and after a purposeful re-design effort.

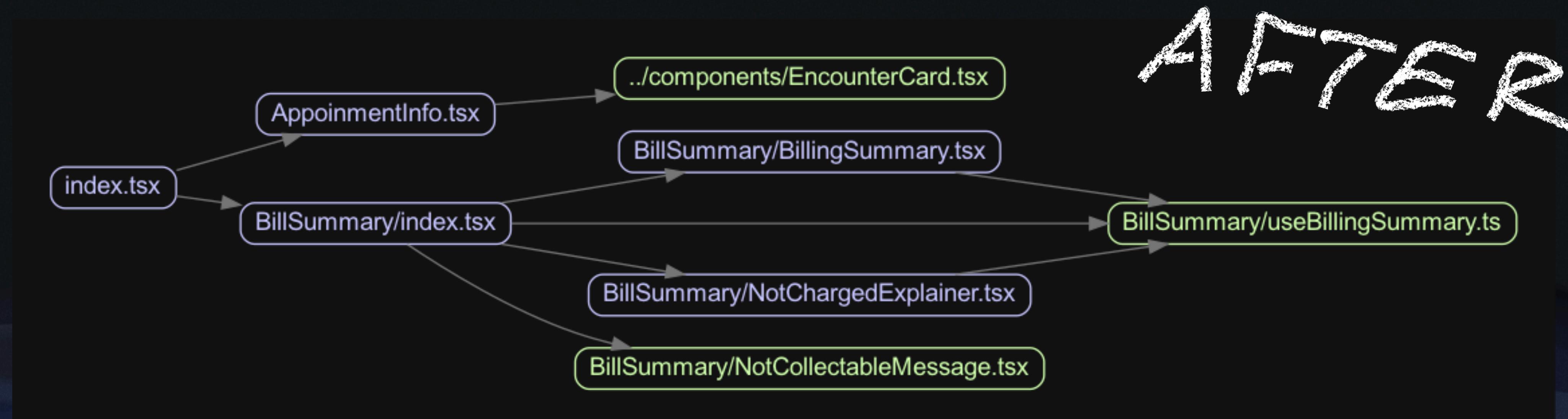


@SWIZEC

BEFORE



AFTER



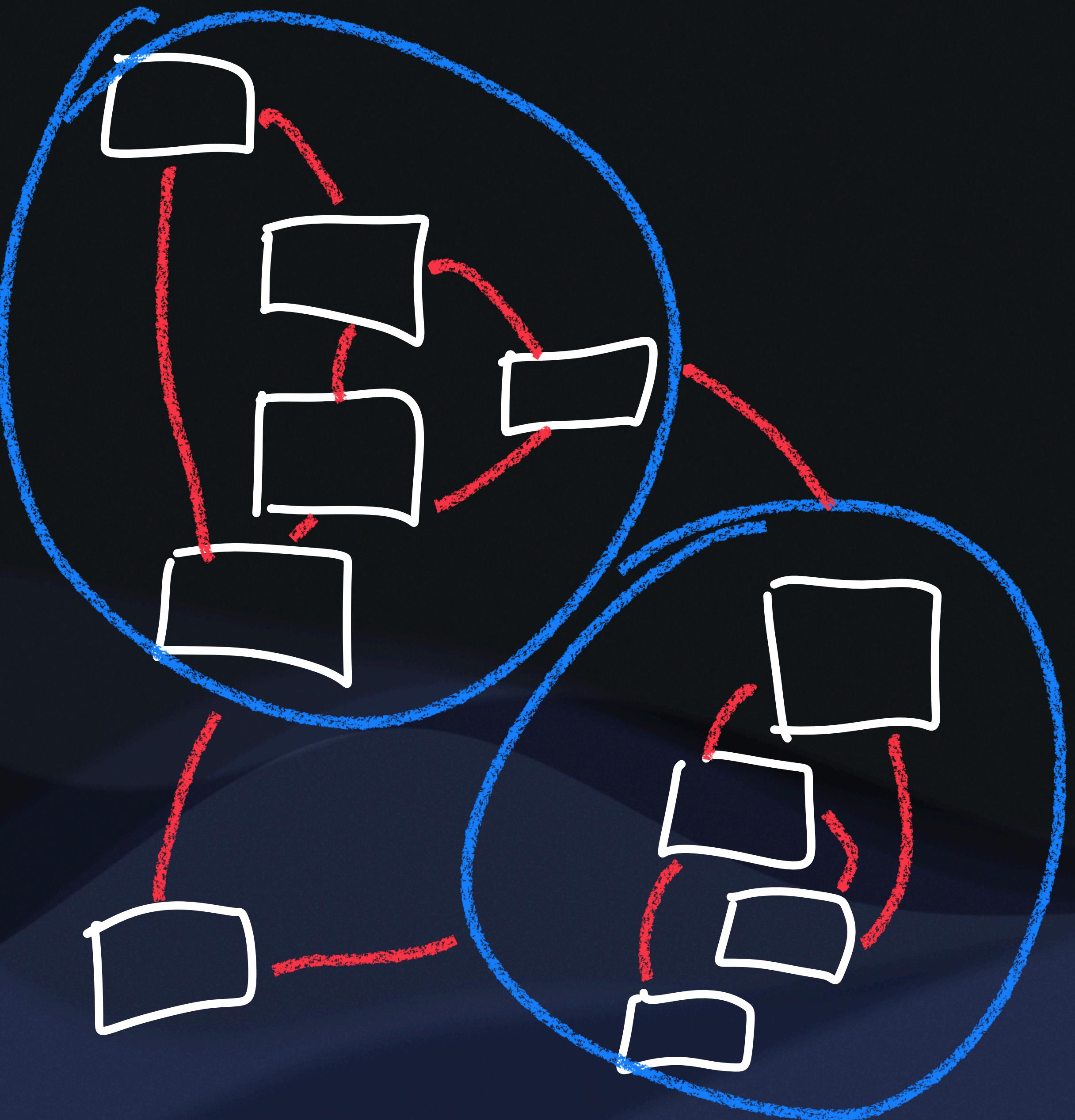
contain the bad

put it in a little box

Notice architectural complexity

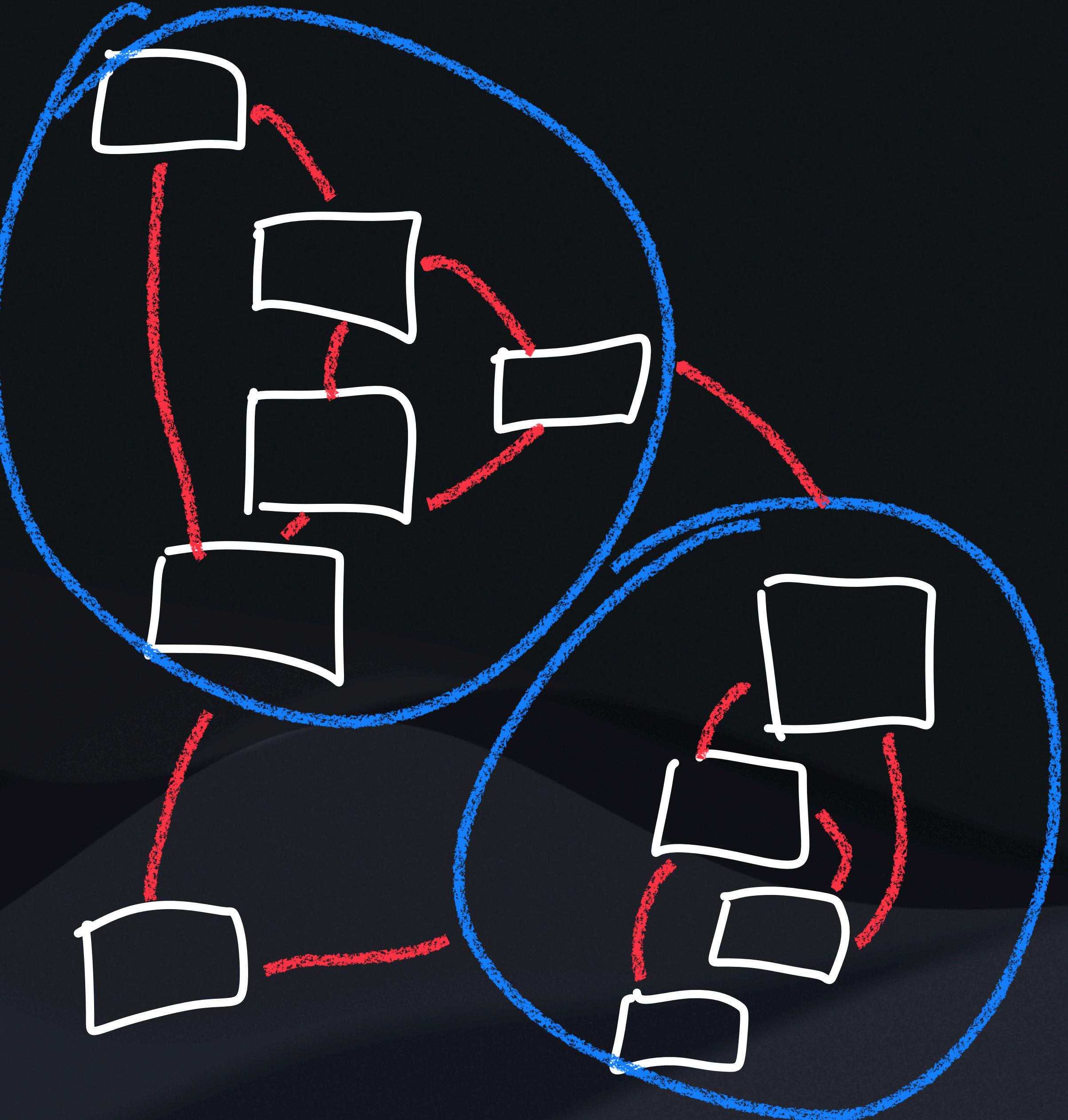
- jumbled dependency graphs
- ../../ imports
- circular dependencies
- unclear inside/outside boundaries





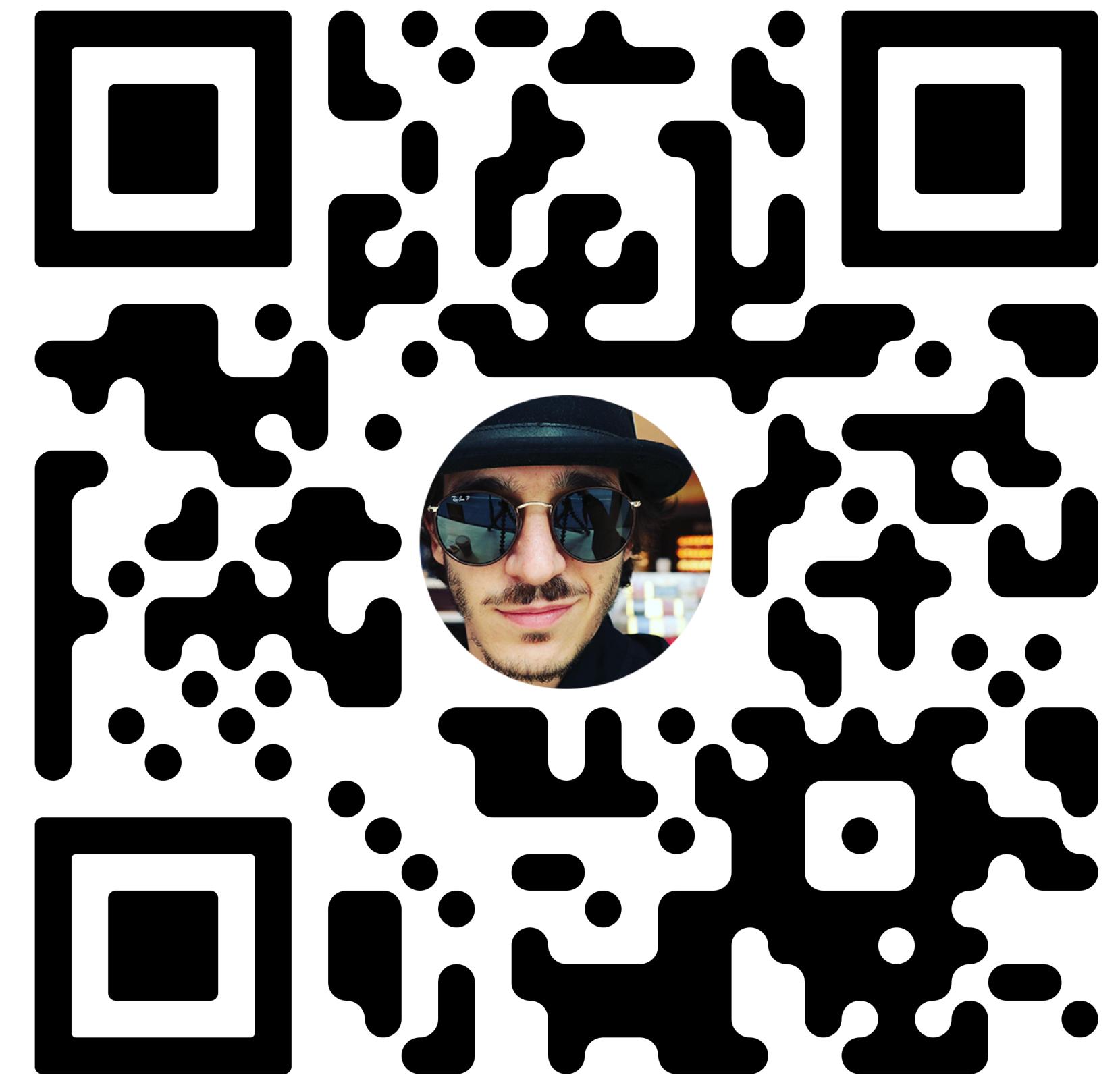
Fix architectural complexity

- organize by business domain
- tight internal coupling, loose external
- clean/validate inputs at boundaries,
prop drill on the inside
- be explicit
- duplication beats mixed concerns



Forget bad code,
focus on the system
how architectural complexity
rules your work

@swizec



swizec.com/react-summit