

RENDER LESS

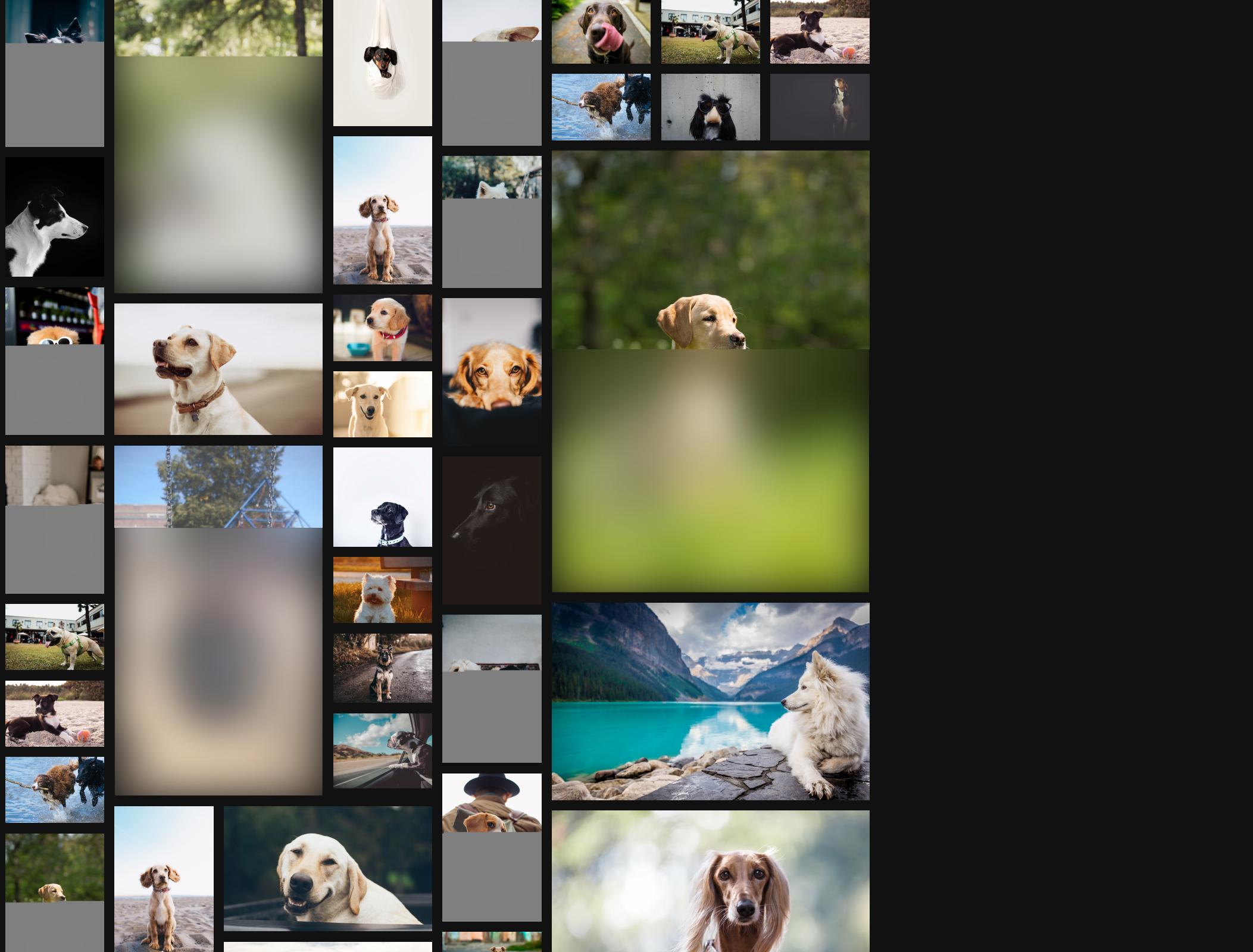
CREATING PERFORMANT LAYOUTS

REACT BOSTON 2018 - COLE TURNER



@coleturner

- Acquisition UI @ Netflix
- Previously PayPal
- Copy pasting since 2004





Aw, Snap!

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REACT DEVELOPERS WORRY TOO MUCH ABOUT
AVOIDING RE-RENDERS

**BUT NOT ENOUGH ABOUT
HOW MUCH WE RENDER**

DOM mutations



Style Calculations



Layout Thrashing

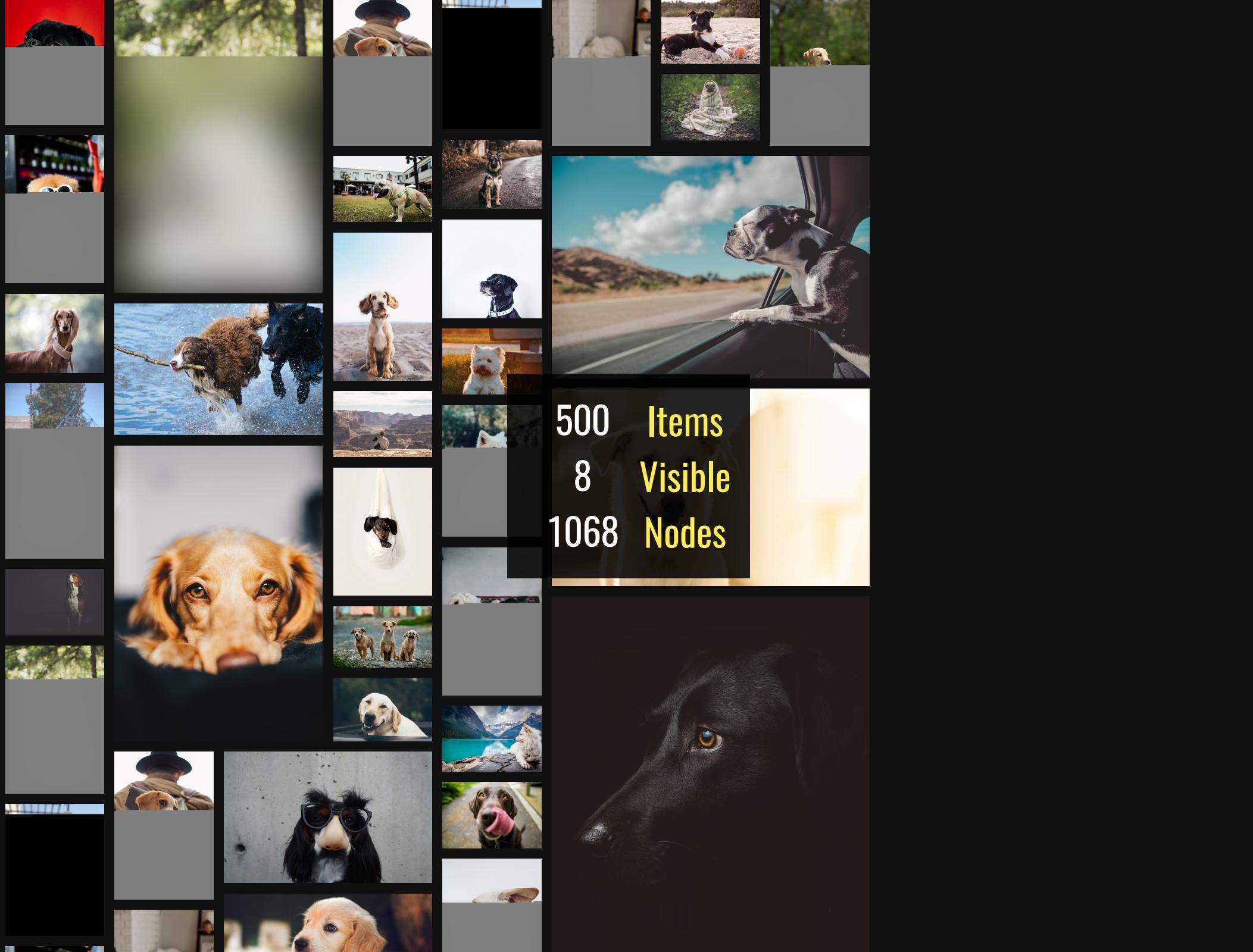


Rendering all the things



Things that makes layout slow
RENDERING JEOPARDY

**500 Items
8 Visible
1068 Nodes**



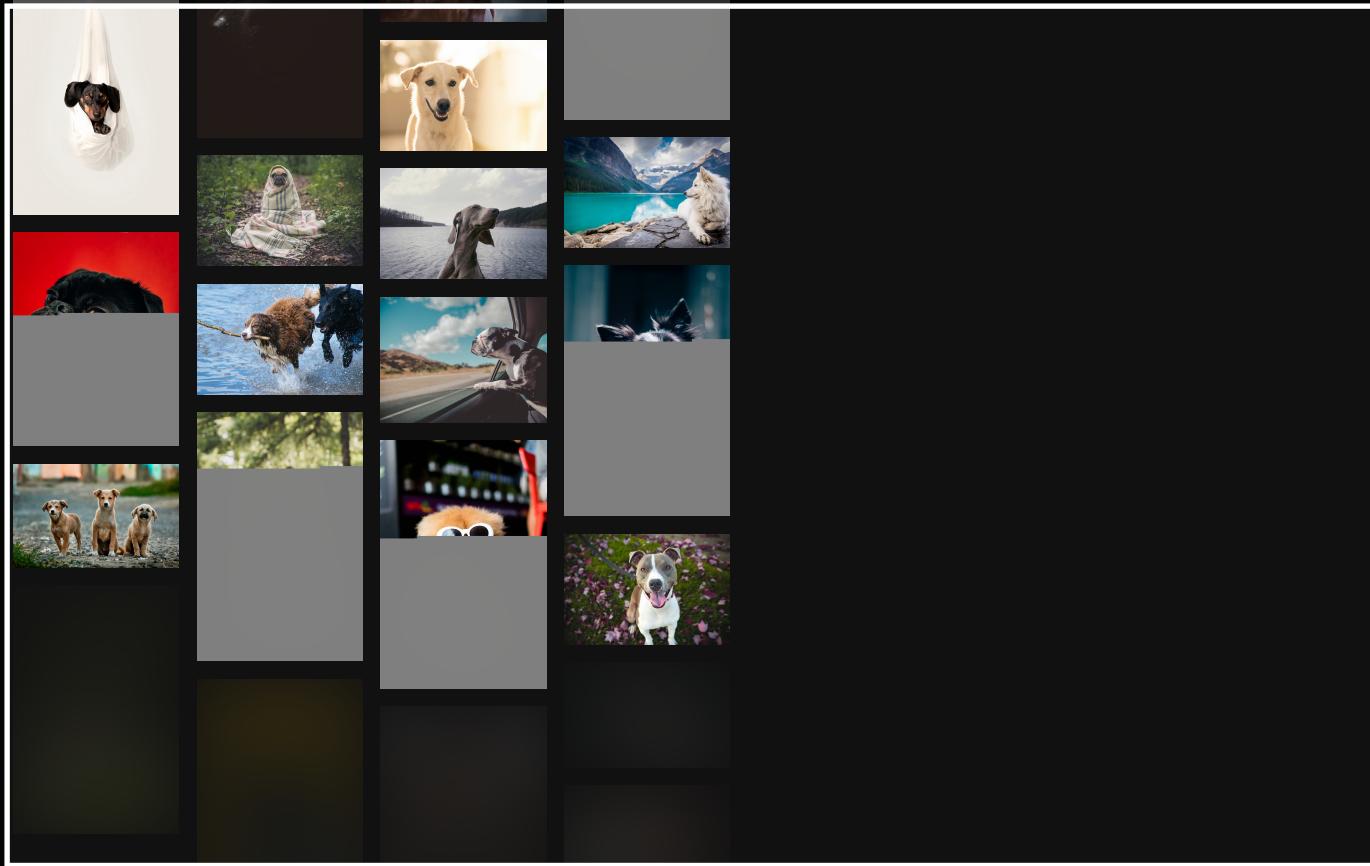
RENDER LESS!

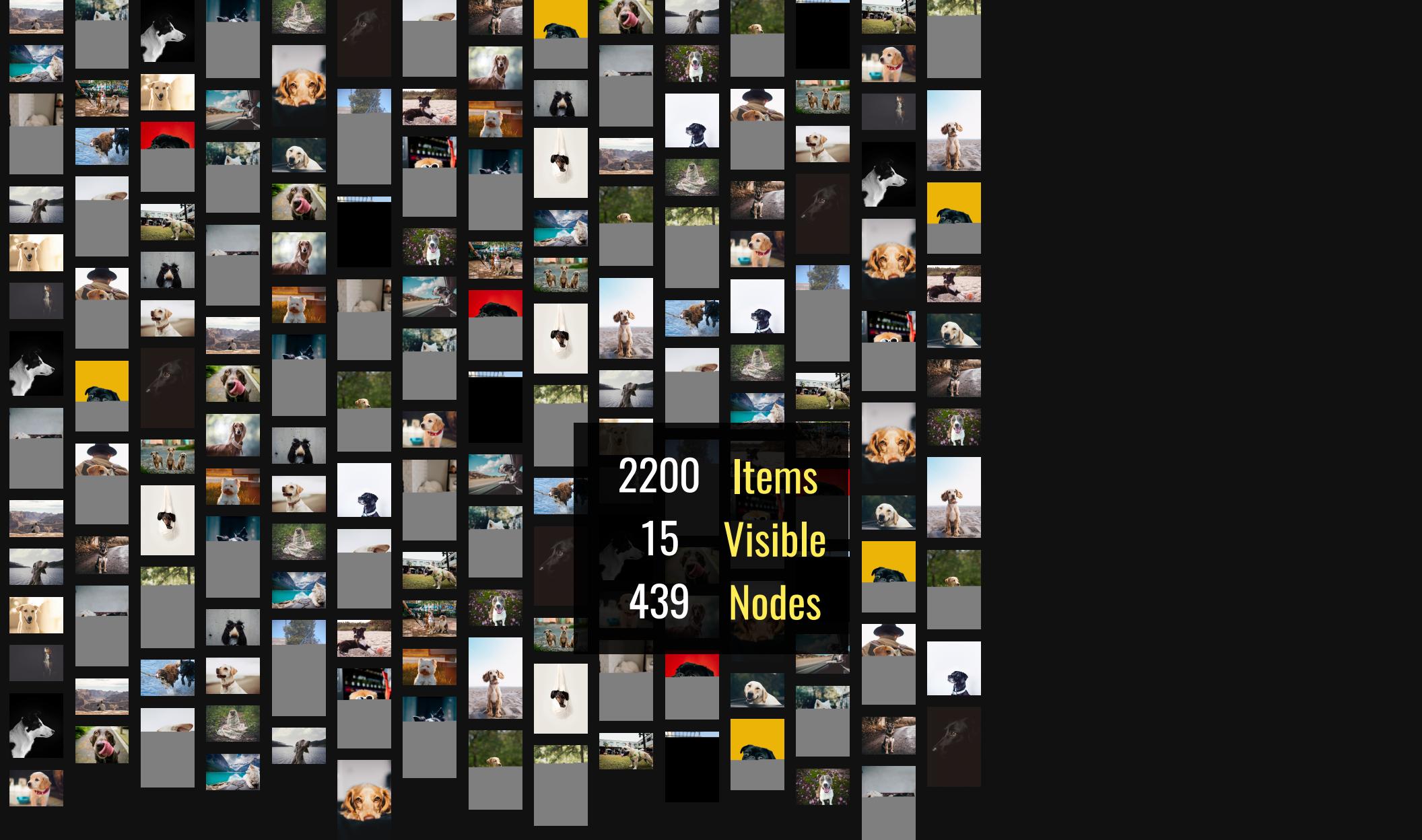


HOW TO: RENDER LESS

- Rendering the viewport area only
- Minimize style calculations
- Avoiding layout thrashing

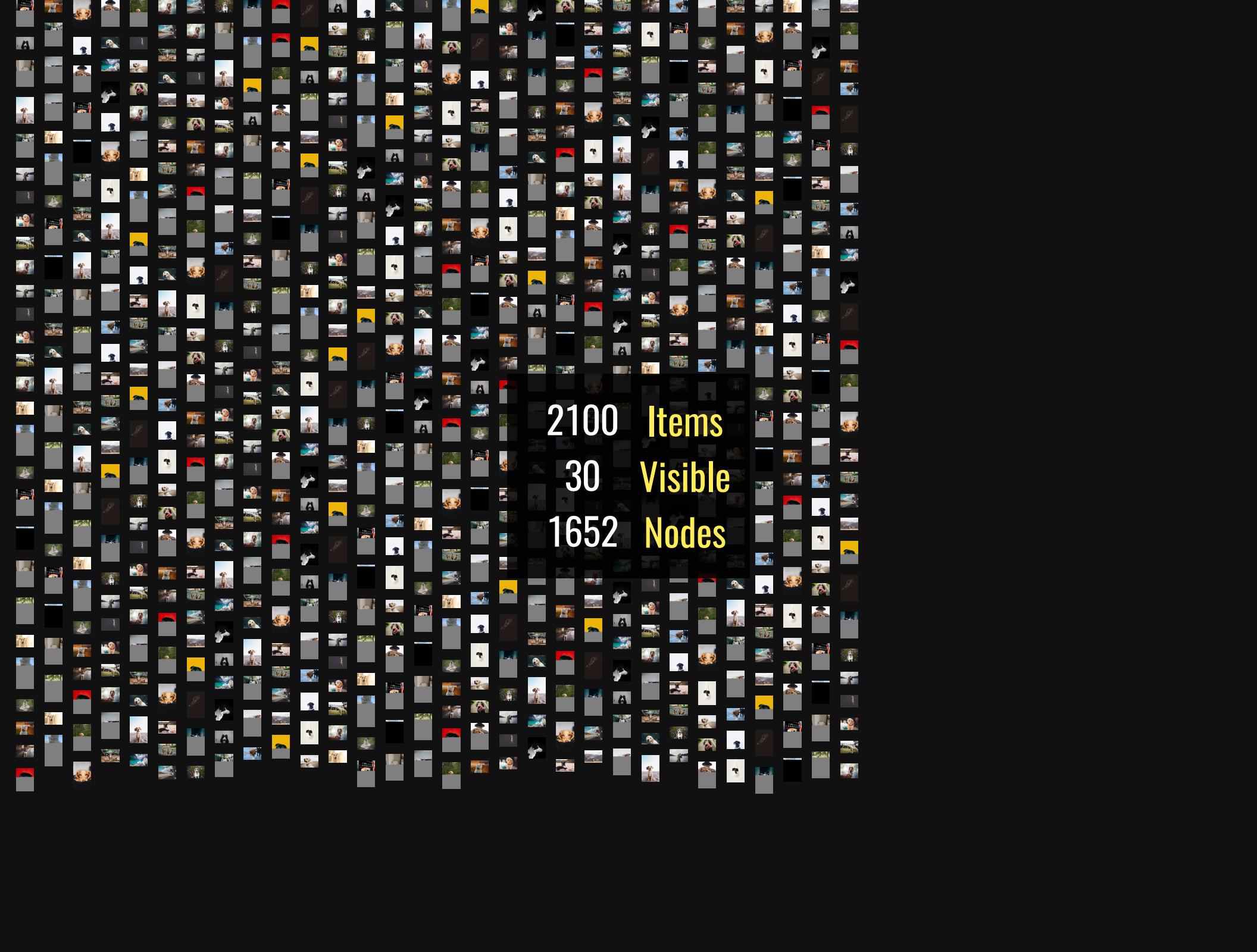
VIRTUALIZED RENDERING





2200
15
439

Items
Visible
Nodes



2100 Items
30 Visible
1652 Nodes



Render less things, fewer times

Avoid layout thrashing

Test low-end devices

THANKS FOR LISTENING!

YOU MIGHT ALSO BE INTERESTED IN:

- [React Performance Tools](#)
 - [CSS Triggers](#)
 - [Avoid Large Complex Layouts & Layout Thrashing...](#)
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