Install

npx shadcn@latest add https://reactbits.dev/r/ElectricBorder-TS-TW

```
Usage
// CREDIT
// Component inspired by @BalintFerenczy on X
// https://codepen.io/BalintFerenczy/pen/KwdoyEN
import ElectricBorder from './ElectricBorder'
<ElectricBorder
 color="#7df9ff"
 speed={1}
 chaos={0.5}
 thickness={2}
 style={{ borderRadius: 16 }}
>
 <div>
  A glowing, animated border wrapper.
  </div>
</ElectricBorder>
import React, { CSSProperties, PropsWithChildren, useEffect, useId, useLayoutEffect,
useRef } from 'react';
type ElectricBorderProps = PropsWithChildren<{</pre>
 color?: string;
 speed?: number;
 chaos?: number;
 thickness?: number;
 className?: string;
 style?: CSSProperties;
}>;
function hexToRgba(hex: string, alpha = 1): string {
 if (!hex) return `rgba(0,0,0,${alpha})`;
```

```
let h = hex.replace('#', ");
 if (h.length === 3) {
  h = h
    .split(")
   .map(c \Rightarrow c + c)
    .join(");
 }
 const int = parseInt(h, 16);
 const r = (int >> 16) \& 255;
 const g = (int >> 8) \& 255;
 const b = int \& 255;
 return 'rgba(${r}, ${g}, ${b}, ${alpha})';
}
const ElectricBorder: React.FC<ElectricBorderProps> = ({
 children,
 color = '#5227FF',
 speed = 1,
 chaos = 1,
 thickness = 2,
 className,
 style
}) => {
 const rawId = useId().replace(/[:]/g, ");
 const filterId = `turbulent-displace-${rawId}`;
 const svgRef = useRef<SVGSVGElement | null>(null);
 const rootRef = useRef<HTMLDivElement | null>(null);
 const strokeRef = useRef<HTMLDivElement | null>(null);
 const updateAnim = () => {
  const svg = svgRef.current;
  const host = rootRef.current;
  if (!svg || !host) return;
  if (strokeRef.current) {
   strokeRef.current.style.filter = `url(#${filterId})`;
  }
  const width = Math.max(1, Math.round(host.clientWidth ||
host.getBoundingClientRect().width || 0));
  const height = Math.max(1, Math.round(host.clientHeight ||
host.getBoundingClientRect().height || 0));
  const dyAnims = Array.from(svg.querySelectorAll<SVGAnimateElement>('feOffset >
animate[attributeName="dy"]'));
  if (dyAnims.length >= 2) {
   dyAnims[0].setAttribute('values', `${height}; 0`);
   dyAnims[1].setAttribute('values', `0; -${height}`);
```

```
}
  const dxAnims = Array.from(svg.querySelectorAll<SVGAnimateElement>('feOffset >
animate[attributeName="dx"]'));
  if (dxAnims.length >= 2) {
   dxAnims[0].setAttribute('values', `${width}; 0`);
   dxAnims[1].setAttribute('values', `0; -${width}`);
  }
  const baseDur = 6;
  const dur = Math.max(0.001, baseDur / (speed || 1));
  [...dyAnims, ...dxAnims].forEach(a => a.setAttribute('dur', `${dur}s`));
  const disp = svg.querySelector('feDisplacementMap');
  if (disp) disp.setAttribute('scale', String(30 * (chaos || 1)));
  const filterEl = svg.querySelector<SVGFilterElement>(`#${CSS.escape(filterId)}`);
  if (filterEI) {
   filterEl.setAttribute('x', '-200%');
   filterEI.setAttribute('y', '-200%');
   filterEl.setAttribute('width', '500%');
   filterEl.setAttribute('height', '500%');
  }
  requestAnimationFrame(() => {
   [...dyAnims, ...dxAnims].forEach((a: any) => {
     if (typeof a.beginElement === 'function') {
      try {
       a.beginElement();
      } catch {}
    }
   });
  });
 };
 useEffect(() => {
  updateAnim();
 }, [speed, chaos]);
 useLayoutEffect(() => {
  if (!rootRef.current) return;
  const ro = new ResizeObserver(() => updateAnim());
  ro.observe(rootRef.current);
  updateAnim();
  return () => ro.disconnect();
 }, []);
 const inheritRadius: CSSProperties = {
```

```
borderRadius: style?.borderRadius ?? 'inherit'
 };
 const strokeStyle: CSSProperties = {
  ...inheritRadius,
  borderWidth: thickness,
  borderStyle: 'solid',
  borderColor: color
 };
 const glow1Style: CSSProperties = {
  ...inheritRadius,
  borderWidth: thickness,
  borderStyle: 'solid',
  borderColor: hexToRgba(color, 0.6),
  filter: `blur(${0.5 + thickness * 0.25}px)`,
  opacity: 0.5
 };
 const glow2Style: CSSProperties = {
  ...inheritRadius,
  borderWidth: thickness,
  borderStyle: 'solid',
  borderColor: color,
  filter: `blur(${2 + thickness * 0.5}px)`,
  opacity: 0.5
 };
 const bgGlowStyle: CSSProperties = {
  ...inheritRadius,
  transform: 'scale(1.08)',
  filter: 'blur(32px)',
  opacity: 0.3,
  zIndex: -1,
  background: `linear-gradient(-30deg, ${hexToRgba(color, 0.8)}, transparent, ${color})`
 };
 return (
  <div ref={rootRef} className={'relative isolate ' + (className ?? ")} style={style}>
   <svg
    ref={svgRef}
     className="fixed -left-[10000px] -top-[10000px] w-[10px] h-[10px] opacity-[0.001]
pointer-events-none"
     aria-hidden
    focusable="false"
     <defs>
```

```
<filter id={filterId} colorInterpolationFilters="sRGB" x="-20%" y="-20%" width="140%"
height="140%">
       <feTurbulence type="turbulence" baseFrequency="0.02" numOctaves="10"
result="noise1" seed="1" />
       <feOffset in="noise1" dx="0" dy="0" result="offsetNoise1">
        <animate attributeName="dy" values="700; 0" dur="6s" repeatCount="indefinite"</p>
calcMode="linear" />
       </feOffset>
       <feTurbulence type="turbulence" baseFrequency="0.02" numOctaves="10"
result="noise2" seed="1" />
       <feOffset in="noise2" dx="0" dy="0" result="offsetNoise2">
        <animate attributeName="dy" values="0; -700" dur="6s" repeatCount="indefinite"</p>
calcMode="linear" />
       </feOffset>
       <feTurbulence type="turbulence" baseFrequency="0.02" numOctaves="10"
result="noise1" seed="2" />
       <feOffset in="noise1" dx="0" dy="0" result="offsetNoise3">
        <animate attributeName="dx" values="490; 0" dur="6s" repeatCount="indefinite"</pre>
calcMode="linear" />
       </feOffset>
       <feTurbulence type="turbulence" baseFrequency="0.02" numOctaves="10"
result="noise2" seed="2" />
       <feOffset in="noise2" dx="0" dy="0" result="offsetNoise4">
        <animate attributeName="dx" values="0; -490" dur="6s" repeatCount="indefinite"</p>
calcMode="linear" />
       </feOffset>
       <feComposite in="offsetNoise1" in2="offsetNoise2" result="part1" />
       <feComposite in="offsetNoise3" in2="offsetNoise4" result="part2" />
       <feBlend in="part1" in2="part2" mode="color-dodge" result="combinedNoise" />
       <feDisplacementMap
        in="SourceGraphic"
        in2="combinedNoise"
        scale="30"
        xChannelSelector="R"
        yChannelSelector="B"
       />
      </filter>
    </defs>
   </svg>
   <div className="absolute inset-0 pointer-events-none" style={inheritRadius}>
    <div ref={strokeRef} className="absolute inset-0 box-border" style={strokeStyle} />
    <div className="absolute inset-0 box-border" style={glow1Style} />
    <div className="absolute inset-0 box-border" style={glow2Style} />
```

```
<div className="absolute inset-0" style={bgGlowStyle} />
  </div>
  <div className="relative" style={inheritRadius}>
     {children}
  </div>
  </div>
);
};
export default ElectricBorder;
```