

File: client/src/components/ui/chart.tsx

Type: tsx | Size: 10481 bytes

```
"use client"

import * as React from "react"
import * as RechartsPrimitive from "recharts"

import { cn } from "@lib/utils"

// Format: { THEME_NAME: CSS_SELECTOR }
const THEMES = { light: "", dark: ".dark" } as const

export type ChartConfig = {
  [k in string]: {
    label?: React.ReactNode
    icon?: React.ComponentType
  } & (
    | { color?: string; theme?: never }
    | { color?: never; theme: Record<keyof typeof THEMES, string> }
  )
}

type ChartContextProps = {
  config: ChartConfig
}

const ChartContext = React.createContext<ChartContextProps | null>(null)

function useChart() {
  const context = React.useContext(ChartContext)

  if (!context) {
    throw new Error("useChart must be used within a <ChartContainer />")
  }

  return context
}

const ChartContainer = React.forwardRef<
  HTMLDivElement,
  React.ComponentProps<"div"> & {
    config: ChartConfig
    children: React.ComponentProps<
      typeof RechartsPrimitive.ResponsiveContainer
    >["children"]
  }
>(({ id, className, children, config, ...props }, ref) => {
  const uniqueId = React.useId()
  const chartId = `chart-${id || uniqueId.replace(/:/g, "")}`

  return (
    <ChartContext.Provider value={{ config }}>
      <div
        data-chart={chartId}
        ref={ref}
        className={cn(
          "flex aspect-video justify-center text-xs [&_.recharts-cartesian-axis-tick_text]:fill-muted-foreground..."
        )}
        {...props}
      >
        <ChartStyle id={chartId} config={config} />
        <RechartsPrimitive.ResponsiveContainer>
          {children}
        </RechartsPrimitive.ResponsiveContainer>
      </div>
    </ChartContext.Provider>
  )
})

ChartContainer.displayName = "Chart"

const ChartStyle = ({ id, config }: { id: string; config: ChartConfig }) => {
```

```

const colorConfig = Object.entries(config).filter(
  ([, config]) => config.theme || config.color
)

if (!colorConfig.length) {
  return null
}

return (
  <style
    dangerouslySetInnerHTML={{
      __html: Object.entries(THEMES)
        .map(
          ([theme, prefix]) => `
${prefix} [data-chart=${id}] {
${colorConfig
  .map(([key, itemConfig]) => {
    const color =
      itemConfig.theme?.[theme as keyof typeof itemConfig.theme] ||
      itemConfig.color
    return color ? `--color-${key}: ${color};` : null
  })
  .join("\n")}
`
    }
  )
  .join("\n"),
  )
  />
)
}

const ChartTooltip = RechartsPrimitive.Tooltip

const ChartTooltipContent = React.forwardRef<
  HTMLDivElement,
  React.ComponentProps<typeof RechartsPrimitive.Tooltip> &
  React.ComponentProps<"div"> & {
    hideLabel?: boolean
    hideIndicator?: boolean
    indicator?: "line" | "dot" | "dashed"
    nameKey?: string
    labelKey?: string
  }
>(
  (
    {
      active,
      payload,
      className,
      indicator = "dot",
      hideLabel = false,
      hideIndicator = false,
      label,
      labelFormatter,
      labelClassName,
      formatter,
      color,
      nameKey,
      labelKey,
    },
    ref
  ) => {
    const { config } = useChart()

    const tooltipLabel = React.useMemo(() => {
      if (hideLabel || !payload?.length) {
        return null
      }
    }, [hideLabel, payload])

    const [item] = payload
    const key = `${labelKey || item?.dataKey || item?.name || "value"}`
    const itemConfig = getPayloadConfigFromPayload(config, item, key)
  }
)

```

```

const value =
  !labelKey && typeof label === "string"
    ? config[label as keyof typeof config]?.label || label
    : itemConfig?.label

if (labelFormatter) {
  return (
    <div className={cn("font-medium", labelClassName)}>
      {labelFormatter(value, payload)}
    </div>
  )
}

if (!value) {
  return null
}

return <div className={cn("font-medium", labelClassName)}>{value}</div>
}, [
  label,
  labelFormatter,
  payload,
  hideLabel,
  labelClassName,
  config,
  labelKey,
])

if (!active || !payload?.length) {
  return null
}

const nestLabel = payload.length === 1 && indicator !== "dot"

return (
  <div
    ref={ref}
    className={cn(
      "grid min-w-[8rem] items-start gap-1.5 rounded-lg border border-border/50 bg-background px-2.5 py-1..."
    )}
  >
    {!nestLabel ? tooltipLabel : null}
    <div className="grid gap-1.5">
      {payload.map((item, index) => {
        const key = `${nameKey || item.name || item.dataKey || "value"}`
        const itemConfig = getPayloadConfigFromPayload(config, item, key)
        const indicatorColor = color || item.payload.fill || item.color

        return (
          <div
            key={item.dataKey}
            className={cn(
              "flex w-full flex-wrap items-stretch gap-2 [>svg]:h-2.5 [>svg]:w-2.5 [>svg]:text-muted-fo..."
            )}
          >
            {formatter && item?.value !== undefined && item.name ? (
              formatter(item.value, item.name, item, index, item.payload)
            ) : (
              <>
                {itemConfig?.icon ? (
                  <itemConfig.icon />
                ) : (
                  !hideIndicator && (
                    <div
                      className={cn(
                        "shrink-0 rounded-[2px] border-[--color-border] bg-[--color-bg]",
                        {
                          "h-2.5 w-2.5": indicator === "dot",
                          "w-1": indicator === "line",
                          "w-0 border-[1.5px] border-dashed bg-transparent":
                            indicator === "dashed",
                        }
                      )}
                    )}
                  )}
                )}
              )}
            )}
          </div>
        )
      })}
    </div>
  </div>
)

```

```

        "my-0.5": nestLabel && indicator === "dashed",
      }
    })
    style={
      {
        "--color-bg": indicatorColor,
        "--color-border": indicatorColor,
      } as React.CSSProperties
    }
  />
)
})
<div
  className={cn(
    "flex flex-1 justify-between leading-none",
    nestLabel ? "items-end" : "items-center"
  )}
>
  <div className="grid gap-1.5">
    {nestLabel ? tooltipLabel : null}
    <span className="text-muted-foreground">
      {itemConfig?.label || item.name}
    </span>
  </div>
  {item.value && (
    <span className="font-mono font-medium tabular-nums text-foreground">
      {item.value.toLocaleString()}
    </span>
  )}
</div>
</>
  )}
</div>
)
  )}
</div>
</div>
)
}
)
ChartTooltipContent.displayName = "ChartTooltip"

const ChartLegend = RechartsPrimitive.Legend

const ChartLegendContent = React.forwardRef<
  HTMLDivElement,
  React.ComponentProps<"div"> &
    Pick<RechartsPrimitive.LegendProps, "payload" | "verticalAlign"> & {
      hideIcon?: boolean
      nameKey?: string
    }
>(
  (
    { className, hideIcon = false, payload, verticalAlign = "bottom", nameKey },
    ref
  ) => {
    const { config } = useChart()

    if (!payload?.length) {
      return null
    }

    return (
      <div
        ref={ref}
        className={cn(
          "flex items-center justify-center gap-4",
          verticalAlign === "top" ? "pb-3" : "pt-3",
          className
        )}
      >
        {payload.map((item) => {
          const key = `${nameKey} || item.dataKey || "value"}`

```

```

const itemConfig = getPayloadConfigFromPayload(config, item, key)

return (
  <div
    key={item.value}
    className={cn(
      "flex items-center gap-1.5 [&svg]:h-3 [&svg]:w-3 [&svg]:text-muted-foreground"
    )}
  >
    {itemConfig?.icon && !hideIcon ? (
      <itemConfig.icon />
    ) : (
      <div
        className="h-2 w-2 shrink-0 rounded-[2px]"
        style={{
          backgroundColor: item.color,
        }}
      />
    )}
    {itemConfig?.label}
  </div>
)
))}
</div>
)
}
)
ChartLegendContent.displayName = "ChartLegend"

// Helper to extract item config from a payload.
function getPayloadConfigFromPayload(
  config: ChartConfig,
  payload: unknown,
  key: string
) {
  if (typeof payload !== "object" || payload === null) {
    return undefined
  }

  const payloadPayload =
    "payload" in payload &&
    typeof payload.payload === "object" &&
    payload.payload !== null
      ? payload.payload
      : undefined

  let configLabelKey: string = key

  if (
    key in payload &&
    typeof payload[key as keyof typeof payload] === "string"
  ) {
    configLabelKey = payload[key as keyof typeof payload] as string
  } else if (
    payloadPayload &&
    key in payloadPayload &&
    typeof payloadPayload[key as keyof typeof payloadPayload] === "string"
  ) {
    configLabelKey = payloadPayload[
      key as keyof typeof payloadPayload
    ] as string
  }

  return configLabelKey in config
    ? config[configLabelKey]
    : config[key as keyof typeof config]
}

export {
  ChartContainer,
  ChartTooltip,
  ChartTooltipContent,
  ChartLegend,

```

```
    ChartLegendContent,  
    ChartStyle,  
}
```