Chart themes of g3viz

The `g3viz` package contains 8 ready-to-use chart schemes: *default*, *blue*, *simple*, *cbioportal*, *nature*, *nature2*, *ggplot2*, and *dark*.

- Load data

```
# Retrieve TP53 mutation data of the MSK-IMPACT study from cBioPortal
mutation.dat <- getMutationsFromCbioportal("msk_impact_2017", "TP53")
#> Found study msk_impact_2017
#> Found mutation data set msk_impact_2017_mutations
#> 10945 cases in this study
```

1 *default* theme

```
g3Lollipop(mutation.dat,
          plot.options =
            g3Lollipop.theme(theme.name = "default",
                             title.text = "TP53 gene mutation (default theme)",
                             y.axis.label = "# of TP53 mutations",
                             legend.title = "Mutation_Class"),
          btn.style = "blue",
          gene.symbol = "TP53",
          output.filename = "default_theme")
#> Factor is set to Mutation_Class
```

2 *blue* theme

```
g3Lollipop(mutation.dat,
          plot.options =
            g3Lollipop.theme(theme.name = "blue",
                             title.text = "TP53 gene mutation (blue theme)",
                             y.axis.label = "# of TP53 mutations",
                             legend.title = "Mutation_Class"),
          btn.style = "blue",
          gene.symbol = "TP53",
          output.filename = "blue_theme")
#> Factor is set to Mutation_Class
```

3 *simple* theme

```
g3Lollipop(mutation.dat,
          plot.options =
            g3Lollipop.theme(theme.name = "simple",
                             title.text = "TP53 gene mutation (simple theme)",
                             y.axis.label = "# of TP53 mutations",
```
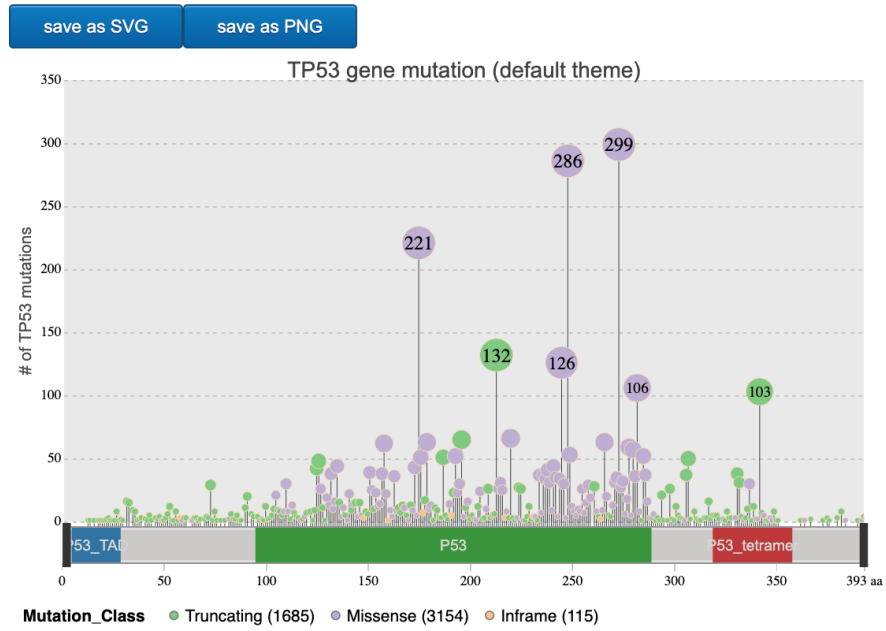
Figure 1: g3viz lollipop-diagram with default theme

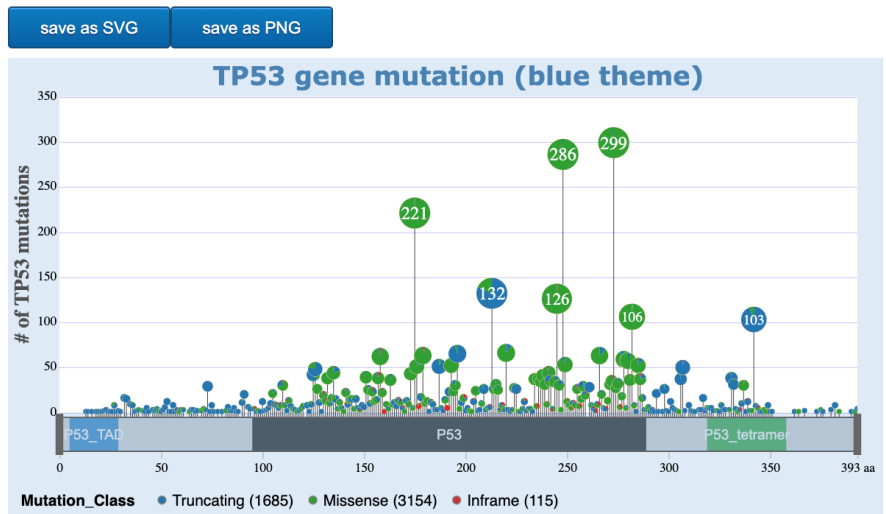Figure 2: g3viz lollipop-diagram with blue theme
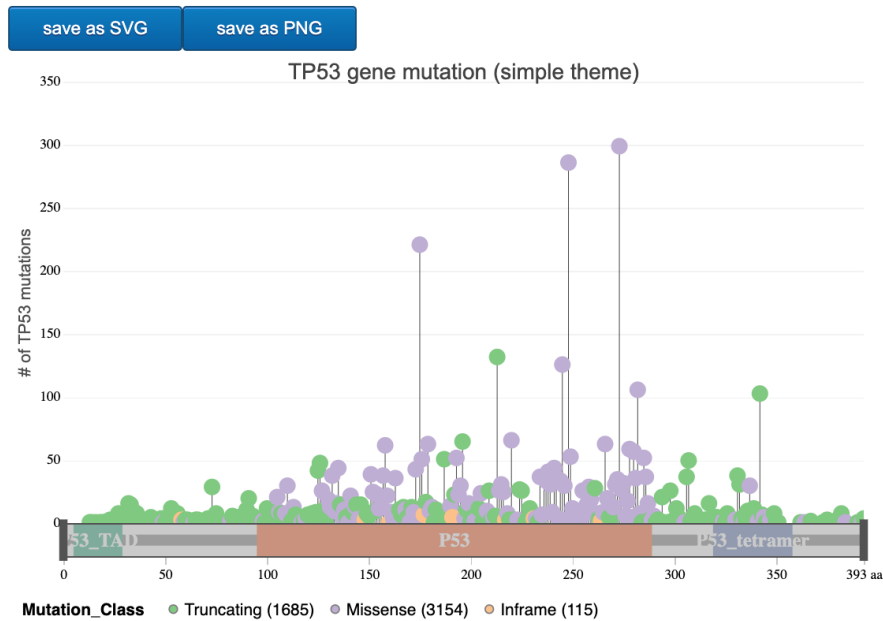
Figure 3: g3viz lollipop-diagram with simple theme

```
                          legend.title = "Mutation_Class"),
          btn.style = "blue",
          gene.symbol = "TP53",
          output.filename = "simple_theme")
#> Factor is set to Mutation_Class
```

4 *cbioportal* theme

```
g3Lollipop(mutation.dat,
          plot.options =
            g3Lollipop.theme(theme.name = "cbioportal",
                             title.text = "TP53 gene mutation (cBioPortal theme)",
                             y.axis.label = "# of TP53 mutations",
                             legend.title = "Mutation_Class"),
          btn.style = "blue",
          gene.symbol = "TP53",,
          output.filename = "cbioportal_theme")
#> Factor is set to Mutation_Class
```

5 *nature* theme

```
g3Lollipop(mutation.dat,
          plot.options =
            g3Lollipop.theme(theme.name = "nature",
                             title.text = "TP53 gene mutation (nature theme)",
                             y.axis.label = "# of TP53 mutations",
```
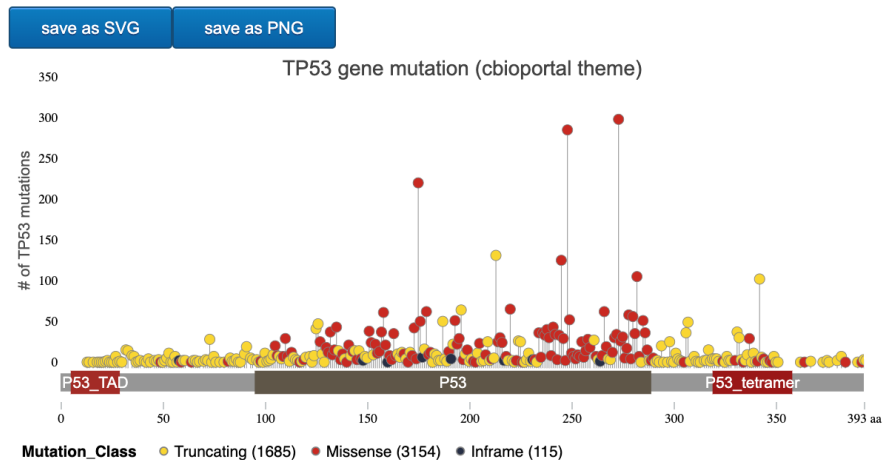
Figure 4: g3viz lollipop-diagram with cBioPortal theme

```
                            legend.title = "Mutation_Class"),
          btn.style = "blue",
          gene.symbol = "TP53",
          output.filename = "nature_theme")
#> Factor is set to Mutation_Class
```

6   *nature2* theme

```
g3Lollipop(mutation.dat,
          plot.options =
            g3Lollipop.theme(theme.name = "nature2",
                             title.text = "TP53 gene mutation (nature2 theme)",
                             y.axis.label = "# of TP53 mutations",
                             legend.title = "Mutation_Class"),
          btn.style = "blue",
          gene.symbol = "TP53",
          output.filename = "nature2_theme")
#> Factor is set to Mutation_Class
```

7   *ggplot2* theme

```
g3Lollipop(mutation.dat,
          plot.options =
            g3Lollipop.theme(theme.name = "ggplot2",
                             title.text = "TP53 gene mutation (ggplot2 theme)",
                             y.axis.label = "# of TP53 mutations",
                             legend.title = "Mutation_Class"),
          btn.style = "blue",
          gene.symbol = "TP53",
          output.filename = "ggplot2_theme")
#> Factor is set to Mutation_Class
```
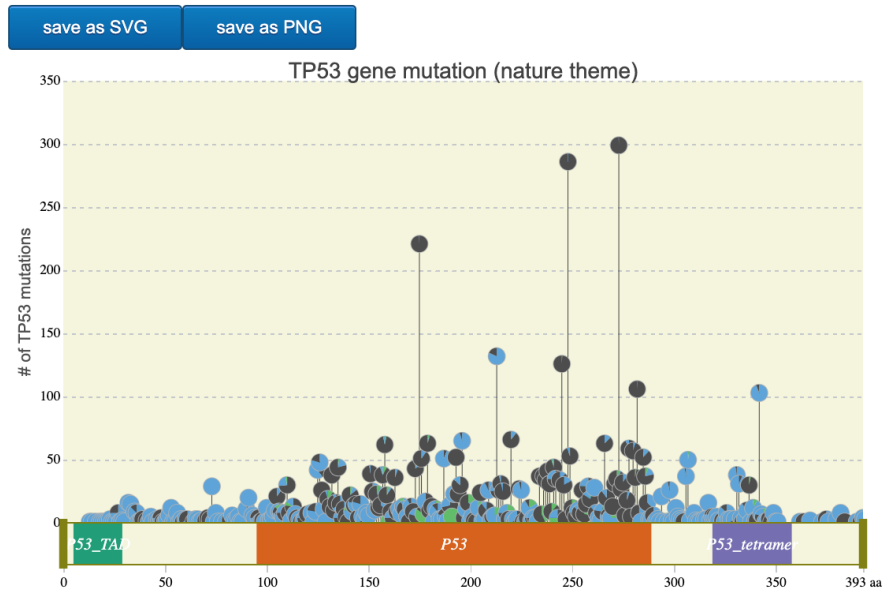
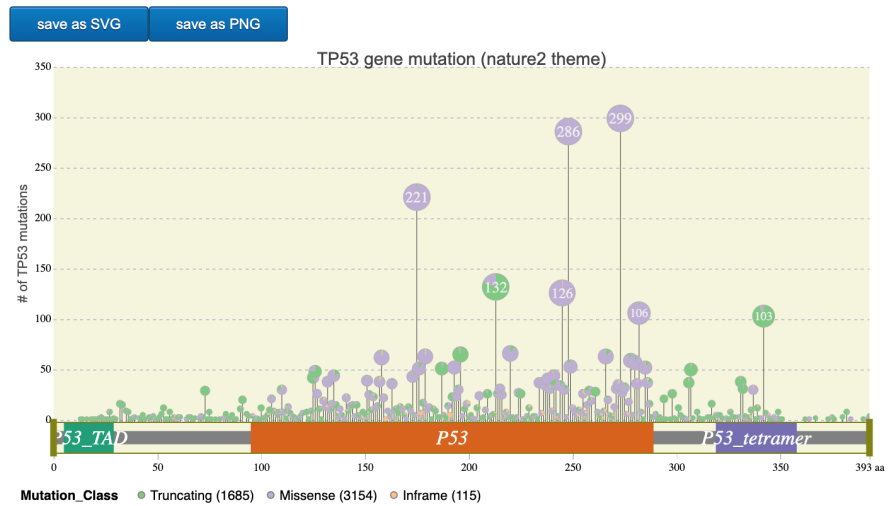Figure 5: g3viz lollipop-diagram with nature theme
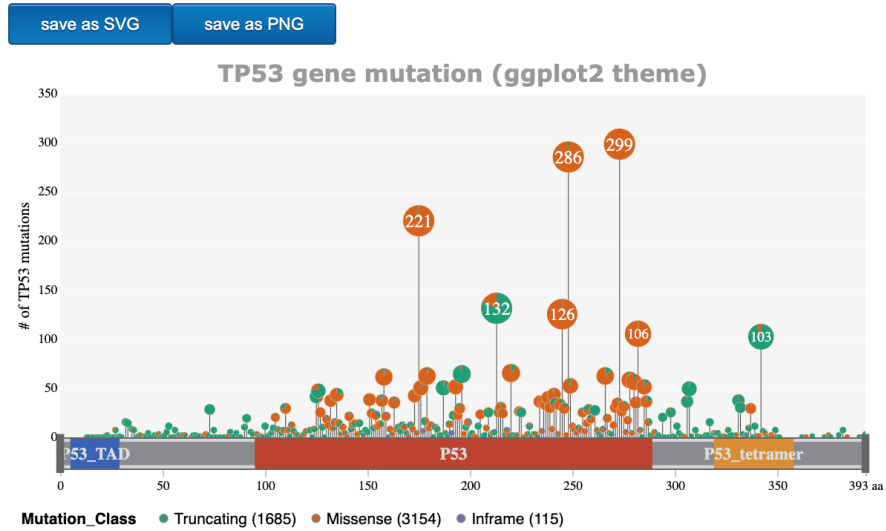

Figure 6: g3viz lollipop-diagram with nature2 theme

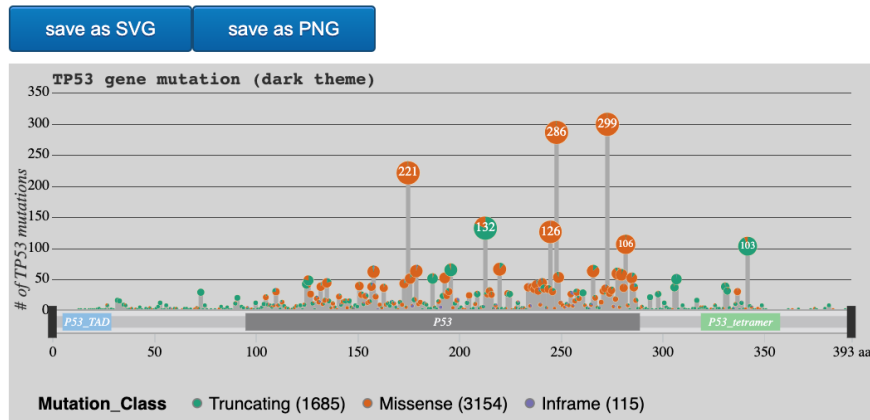Figure 7: g3viz lollipop-diagram with ggplot2 theme

Figure 8: g3viz lollipop-diagram with dark theme

8   *dark* theme

```
g3Lollipop(mutation.dat,
           plot.options =
             g3Lollipop.theme(theme.name = "dark",
                              title.text = "TP53 gene mutation (dark theme)",
                              y.axis.label = "# of TP53 mutations",
                              legend.title = "Mutation_Class"),
           btn.style = "blue",
           gene.symbol = "TP53",
           output.filename = "dark_theme")
#> Factor is set to Mutation_Class
```