

0.1 `plot.surv`: Plotting Confidence Intervals for Survival Curves

Description

The `plot.surv` command generates confidence intervals for Kaplan-Meier survival curves

Usage

```
plot.surv(x, duration, censor, type = "line", plotcensor=TRUE,  
          plottimes = FALSE, int = c(0.025,0.975), ...)
```

Arguments

<code>x</code>	output from <code>sim</code> stored as a list. Each element of the list is the <code>sim</code> output for a particular survival curve.
<code>duration</code>	the duration variable (e.g. lifetime, survival, etc.).
<code>censor</code>	the censored data
<code>type</code>	the type of confidence interval. Defaults to "line", which draws vertical confidence intervals at observed event times. "poly" draws confidence regions using polygons.
<code>plotcensor</code>	default is TRUE. Plots censoring times as a rug object.
<code>plottimes</code>	default is FALSE. Plots step function with indicators at observed event times.
<code>int</code>	vector of quantile limits for the confidence interval. Default is 95% interval.
<code>...</code>	Additional parameters passed to <code>plot</code> .

Value

For survival models, `plot.surv()` returns vertical confidence intervals or polygon survival regions for Kaplan-Meier survival curves. You may save this plot using the commands described in the Zelig manual (<http://gking.harvard.edu/zelig>).

Author(s)

John A. Graves <graveja0@gmail.com>

See Also

The full Zelig manual is available at <http://gking.harvard.edu/zelig>, and users may also wish to see `plot`, `lines`.

Examples

```
## Not run:
data(coalition)
z.out1 <- zelig(Surv(duration, ciep12)~invest+numst2+crisis,
robust=TRUE, cluster="polar", model="coxph", data=coalition)
low <- setx(z.out1, numst2=0)
high <- setx(z.out1, numst2=1)
# Simulate Survival Curves for Each Group
s.out1 <- sim(z.out1, x=low)
s.out2 <- sim(z.out1, x=high)

# Organize simulated output as a list
out <- list(s.out1, s.out2)

plot.surv(x = out, duration = coalition$duration, censor=coalition$ciep12,
          type="line", plottimes=FALSE, plotcensor=FALSE,
          main="Survival", xlab="Time", ylab="Survival")
## End(Not run)
```