

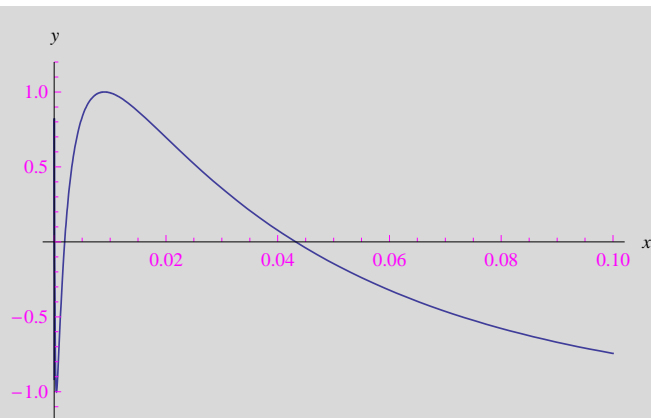
Punti di discontinuità di $f(x) = \sin(\ln(x))$

Marcello Colozzo - <http://www.extrabyt.info>

```
f[x_] := Sin[Log[x]]
```

```
plot[δ_] := Plot[
  f[x],
  {x, 0, δ},
  PlotRange → {-1.2, 1.2},
  Ticks →
  {
    Automatic,
    Automatic
  },
  TicksStyle → Directive[
    Hue[5 / 6],
    9
  ],
  AxesLabel →
  {
    "x", "y"
  },
  PlotStyle → Thickness[0.003]
]
```

```
plot[.1]
```



```
Export["sinlnx.eps", plot[.1]]
```

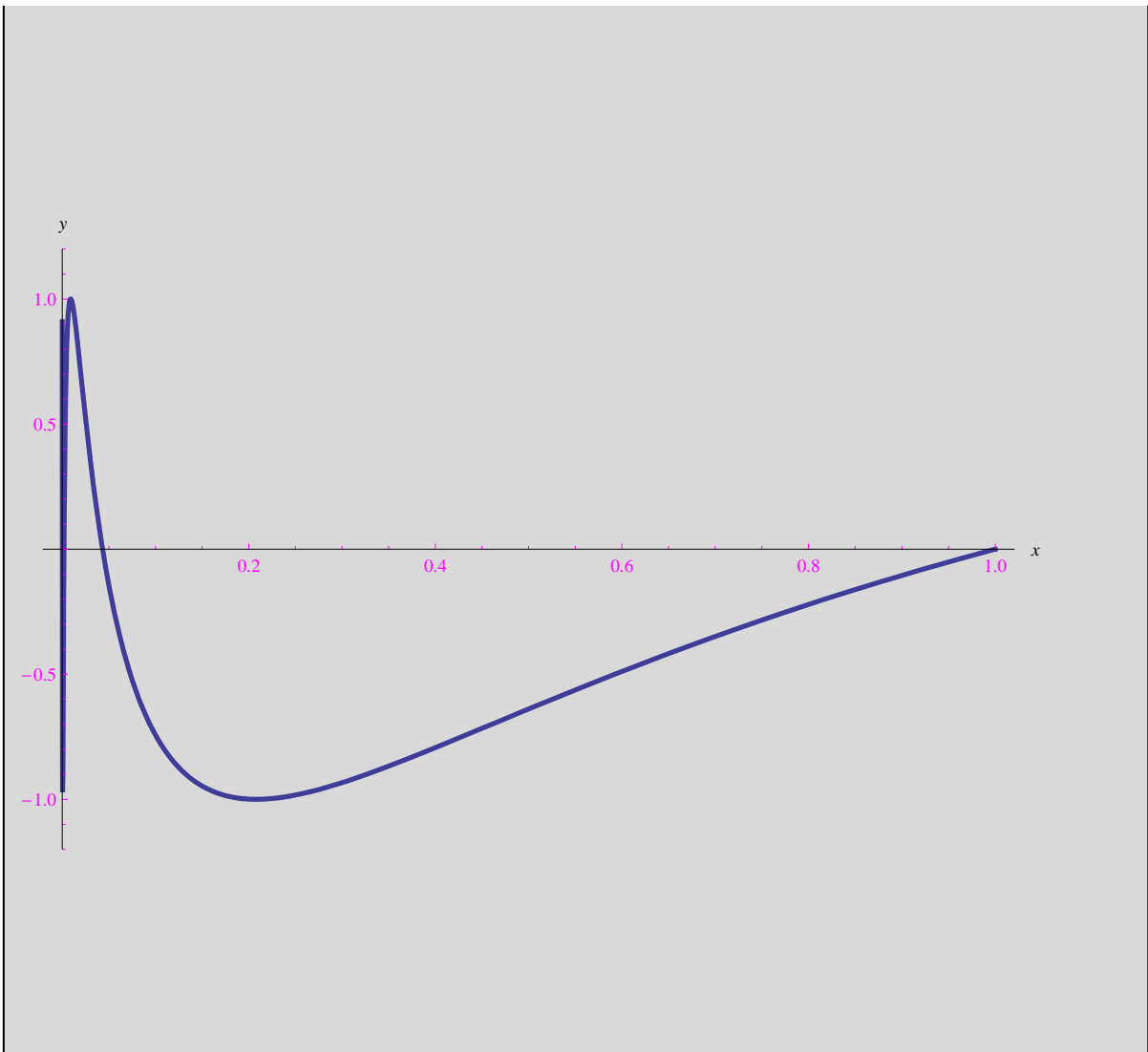
```
sinlnx.eps
```

(*replot aumentando la dimensione dei fotogrammi*)

```
Clear[plot]
```

```
plot[ $\delta$ ] := Plot[
  f[x],
  {x, 0,  $\delta$ },
  PlotRange  $\rightarrow$  {-1.2, 1.2},
  Ticks  $\rightarrow$ 
  {
    Automatic,
    Automatic
  },
  TicksStyle  $\rightarrow$  Directive[
    Hue[5/6],
    9
  ],
  AxesLabel  $\rightarrow$ 
  {
    "x", "y"
  },
  PlotStyle  $\rightarrow$  Thickness[0.005],
  ImageSize  $\rightarrow$ 
  {
    500, 500
  }
]
```

```
plot[1]
```



```
movie = Table[  
  plot[ $\delta$ ],  
  { $\delta$ , 2, 0.01, -0.1}  
];
```

```
Export["singularitagif.gif", movie]
```

```
singularitagif.gif
```