

```
In [6]: using Interact
using Gadfly
```

## The Solow-Swan Model

### Key Equation

$$\partial k/k = A \cdot s \cdot y/k - (s \cdot \delta + n)$$

```
In [60]: k_domain = linspace(0, 10, 100)
```

```
@manipulate for A in 1:5, s in 0:0.05:1, δ in 0:0.05:1, n in 0:0.01:0.1, y in 0:0.1:2
  plot(
    # Initial State
    layer(x=[5], y=[.5*.5+.05], Geom.point, Theme(default_color=colorant"black", line_wid
    layer(xintercept=[5.0], Geom.vline(color=["black"], style=[[1mm]], size=[.5mm])),
    layer(yintercept=[.5*.5+.05], Geom.hline(color=["black"], size=[.5mm])),
    layer(x=k_domain, y=3*.5*(1/k_domain), Geom.line, Theme(default_color=colorant"black",
    # Changing
    layer(x=[(A*s*y)/(s*δ+n)], y=[s*δ+n], Geom.point, Theme(default_color=colorant"red")),
    layer(xintercept=[(A*s*y)/(s*δ+n)], Geom.vline(color=["red"], style=[[1mm]], size=[.5m
    layer(yintercept=[s*δ+n], Geom.hline(color=["red"], size=[.5mm])),
    layer(x=k_domain, y=A*s*(y/k_domain), Geom.line, Theme(default_color=colorant"red", li
    Coord.Cartesian(xmin=0,xmax=10,ymin=0,ymax=1),
    Guide.xlabel("k = K/L (capital per worker)"),
    Guide.ylabel("Determinants of Δk/k")
  )
end
```

A  3

s  0.8

δ  0.5

n  0.05

y  1.0

```
Out[60]:
```



