

Examples of density functions

Source: **CPS_06.dta** –2006 Current population survey
wage average hourly earnings (in \$)
educ years of education

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. sum educ wage
```

Variable	Obs	Mean	Std. Dev.	Min	Max
educ	2000	13.633	2.0877	9	18
wage	2000	18.34701	11.49495	.7	82.42857

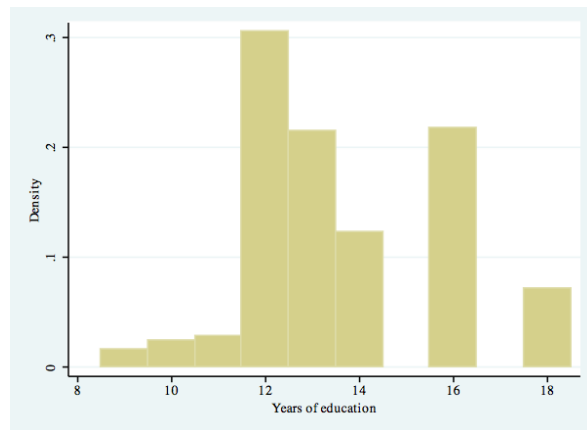
A discrete variable: education

Mean= 13.6 years
Standard deviation = 2.09 years

```
. tab educ
```

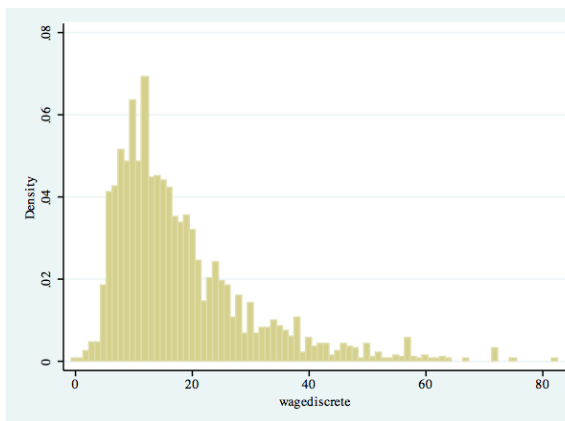
Years of education	Freq.	Percent	Cum.
9	32	1.60	1.60
10	49	2.45	4.05
11	56	2.80	6.85
12	610	30.50	37.35
13	430	21.50	58.85
14	246	12.30	71.15
16	434	21.70	92.85
18	143	7.15	100.00
Total	2,000	100.00	

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. twoway histogram educ, discrete
```



A continuous variable: hourly earnings

Mean= \$18.3
Standard deviation = \$11.5



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. kdensity wage
```

