Census Data

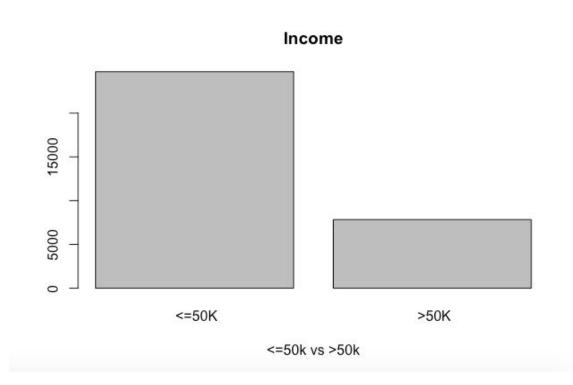
Data Summary

 Dataset from Kaggle collects demographic information from the US Census such as age, race, gender and income bracket

Age		lork.Sector	Number.of.p	eople.thi	s.repres	ents	Edu	cation	
Min. :17.00	Private	:22696	Min. : 12285 HS-grad :10501					:10501	
1st Qu.:28.00	Self-emp-no	t-inc: 2541	1st Qu.: 117832			S	Some-college: 7291		
Median :37.00	Local-gov	: 2093	Median: 17	78363		В	achelors	: 5354	
Mean :38.58	?	: 1836	Mean : 18	39782		Me	asters	: 1723	
3rd Qu.:48.00	State-gov	: 1297	3rd Qu.: 23	37054		A:	ssoc-voc	: 1382	
Max. :90.00	Self-emp-ir	ic : 1116	Max. :148	34705		1:	1th	: 1175	
	(Other)	: 981				(0-	ther)	: 5134	
Education.num	ber	Mariatal.St	tatus	0cc	upation		Family	.Status	
Min. : 1.00	Divorced	: 4	1443 Prof	-specialt	y:4140	Husb	and	:13193	
1st Qu.: 9.00	Married-AF	-spouse :	23 Craf	t-repair	:4099	Not-	in-family	: 8304	
Median :10.00	Married-ci	v-spouse :14	4976 Exec	-manageri	al:4066	Other	r-relativ	e: 981	
Mean :10.08	Married-sp	ouse-absent:	418 Adm-	clerical	:3769	Own-	child	: 5068	
3rd Qu.:12.00	Never-marr	ied :10	0682 Sale	es	:3650	Unmai	rried	: 3446	
Max. :16.00	Separated	: 1	1025 Othe	er-service	:3295	Wife		: 1568	
	Widowed	:	993 (Othe	er)	:9541				
	Race	Gender	Captial.	Gain C	aptial.L	oss	Hours.Wo	rked.Week	
Amer-Indian-	Eskimo: 311	Female:10771	Min. :	0 Mi	n. :	0.00	Min. :	1.00	
Asian-Pac-Is	lander: 1039	Male :21789	1st Qu.:	0 1s	t Qu.:	0.00	1st Qu.:	40.00	
Black	: 3124		Median :	0 Me	dian :	0.00	Median :	40.00	
Other	: 271		Mean :	1078 Me	an :	87.31	Mean :	40.44	
White	:27815		3rd Qu.:	0 3r	d Qu.:	0.00	3rd Qu.:	45.00	
			Max. :9	99999 Ma	x. :43	56.00	Max. :	99.00	
Country.	of.Origin Ir	come							
United-State		K:24719							
Mexico	: 643 >50k	: 7841							
?	: 583								
Philippines	: 198								
Germany	: 137								
Canada	: 121								
(Other)	: 1709								

Income Distribution

- About ¾ of people are making less than 50k
- About ¼ of people are making more than 50k



Income related to Education and Hours worked per week

- People with Bachelors,
 Masters, Professional school and Doctorates make up the majority of people making over 50k
- The greater the person's education, the more money the person makes



Income related to Age and Hours worked per week

 This data shows most people making over 50k work around 50 hours a week and are generally middle aged



Hours worked per week depending on age

 In general people work more as they get older contrary to what people think

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Welch Two Sample t-test

data: data$Age and data$Hours.Worked.Week

t = -18.2, df = 64483, p-value < 2.2e-16

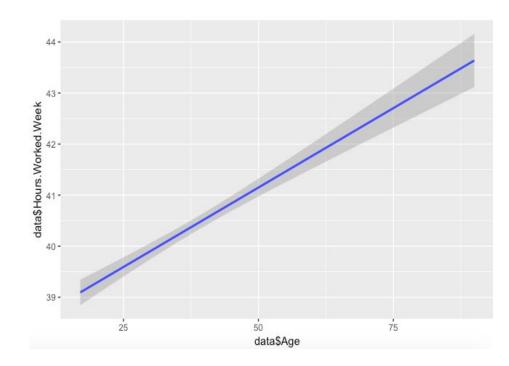
alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:

-2.055690 -1.655981

sample estimates:
mean of x mean of y

38.58163 40.43747
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Hours worked based on income

 People making more than 50k typically worked around 49 hours at the start of their careers while people making less were working around 38 hours but as they got to retirement age the people making less than 50k tended to work more than those making more

