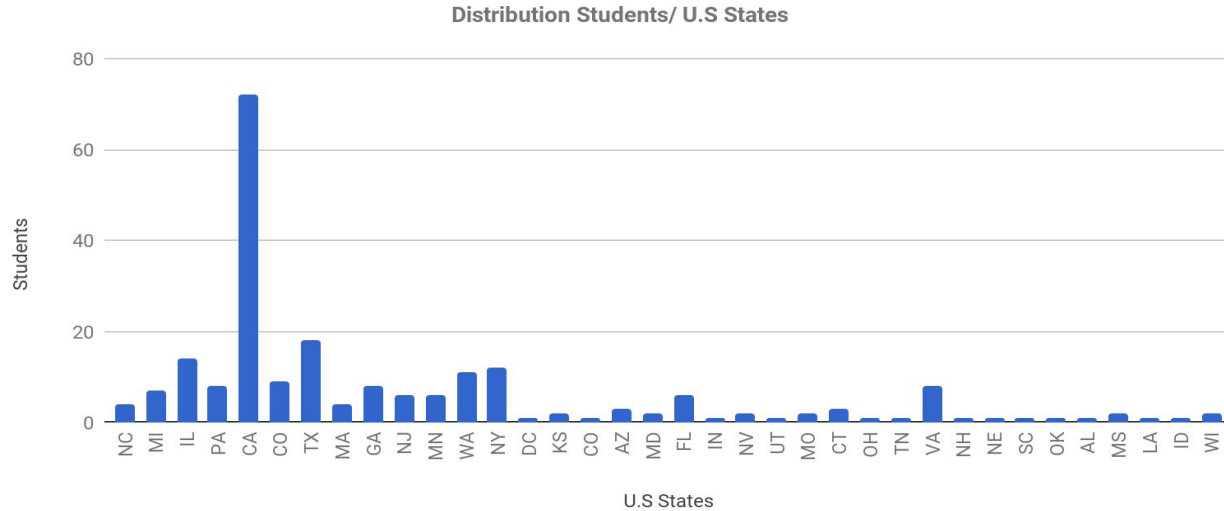


## *What proportion of the students who completed the survey lives in U.S?*



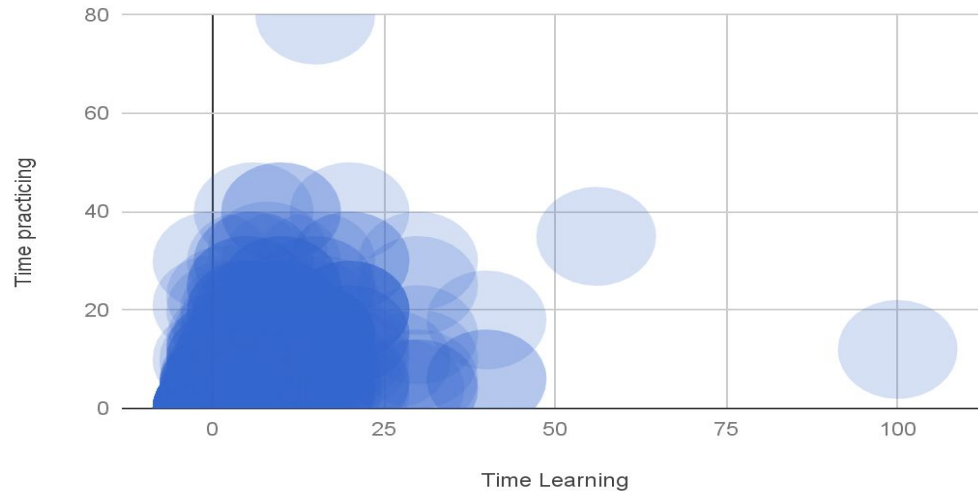
There are 749\* Udacity's students around the world, within 224 lived in U.S, that represents 0.30 of the sample. The data contains 36 U.S states. Noting the five states where live most of the students are California, Texas, Illinois, New York and Washington, respectively. California represents a 0.32 of proportion, the rest of the states neither gets 0.1 points. According to the Bar chart, is a distribution with a right-skewed

We suppose the difference is related to the Silicon Valley, the influence and attraction of the Technology in California. However, without dismissing another “startups cities”, like Austin in Texas.

\* Sample size 749 valid answers students for this question.

# *Is there a relationship between learning time and practicing time?*

Correlation between hours per week Learning and Practicing of Nanodegree Programs

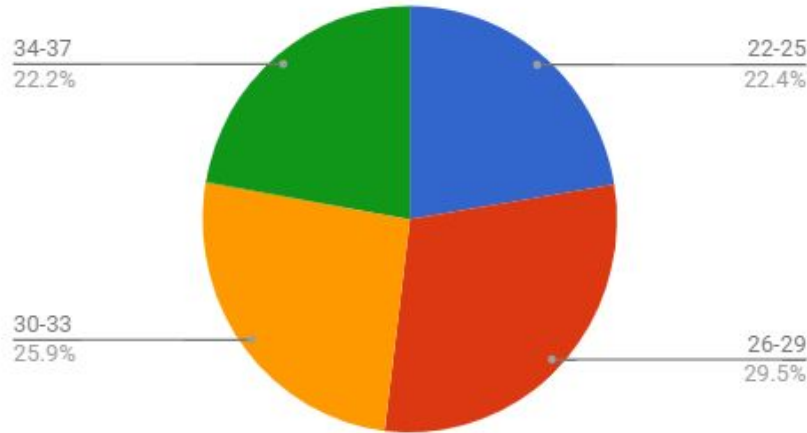


	<i>Time learning</i>	<i>Time practicing</i>
<i>Mean</i>	7.03	6.05
<i>Variance</i>	43.22	41.31
<i>Standard deviation</i>	6.57	6.43

According to the Scatter plot, there is a positive correlation between the variables. There is a close relationship between the time learning and the time practicing. That means that is not merely the theory. The students apply the knowledge while improving their skills. The question is about the Nanodegree Program, so we think the link between the variables is thanks to Udacity's methodology. Furthermore, the values are close to the mean, in line with the standard deviation result.

## How many of the students were born between 1980 and 1995 (Millennials)?

Millennials age range at Udacity

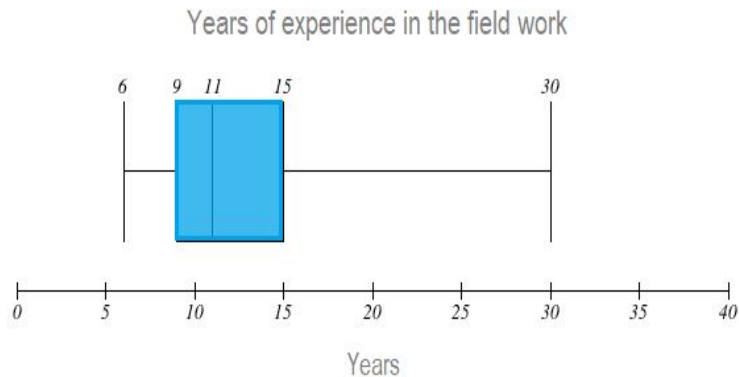


According to the sample are 518 students\* within the age range over 21 and under 38 years old. That corresponds the people who were born between 1980 and 1995, called Millennials. In the survey, they represent 72.75%, results align with reports and research, this generation is hard-working, curious to keep learning and digital natives.

\* Sample size 712 valid answers students for this question..

*Characteristics of dataset: we found blank spaces and missing information along the survey. The sample size varies because the students didn't answer all the items, but in general, the N= 752. In this specific case, the column of Date of birth contains only 712 valid answers instead of 752.*

## How many students have more than five years of experience in his fieldwork?



	Years of experience the fieldwork
Minimum	6
Q1	9
Q2-Median	11
Q3	15
Maximum	30

$$\text{Range} = 30 - 6 \Rightarrow 24$$

$$\text{IQR} = 15 - 9 \Rightarrow 6$$

$$\text{Mode} = 10$$

The 53.19%\* students have more than five years of experience. The majority of students have between nine and fifteen years of experience in his field work, being eleven years the average of the sample.

As well, we link the years of experience in the fieldwork -more than five years with the purpose of starting a new career, and found 156 students within it characteristics. Inferencing this result they answered about to take on a challenge. Could be an interesting topic for future research.

\* Sample size 596 valid answers students for this question.