

Open <https://github.com/pchand15/WsCube2>

1. Download **CASchools.csv** file from WsCube folder.
2. Open <http://shiny.chemgrid.org/boxplotr/>
3. Go to **Data Upload** tab

## BoxPlotR: a web-tool for generation of box plots

Enter data

☐ Load sample data

☒ Upload file

☐ Paste data

Upload delimited text file:

Choose file

No file chosen

Delimiter:

☒ Comma

☐ Tab

☐ Semicolon

Data in [delimited text files](#) can be separated by comma, tab or semicolon. For example, Excel data can be exported in .csv (comma separated) or .tab (tab separated) format.

AboutData uploadData visualizationFigure le

Error: argument is of length zero

This application was created by the [Tyers](#) and [Rappsilber](#) labs. Please : application uses the [shiny](#) package from [RStudio](#) .

4. In the Enter Data section (left side), upload CASchools.csv file.

## BoxPlotR: a web-tool for generation of box plots

**Enter data**

☐ Load sample data

☒ Upload file

☐ Paste data

Upload delimited text file:

Choose file

CASchools.csv

Upload complete

**Delimiter:**

☒ Comma

☐ Tab

☐ Semicolon

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About	Data upload		Data visualization	Figure legend template		News	FAQ					
	district	school	county	grades	students	teachers	calworks	lunch	computer	expenditure	income	
1	1	75119	Sunol Glen Unified	Alameda	KK-08	195	10.90	0.51	2.04	67	6384.91	22.69
2	2	61499	Manzanita Elementary	Butte	KK-08	240	11.15	15.42	47.92	101	5099.38	9.82
3	3	61549	Thermalito Union Elementary	Butte	KK-08	1550	82.90	55.03	76.32	169	5501.95	8.98
4	4	61457	Golden Feather Union Elementary	Butte	KK-08	243	14.00	36.48	77.05	85	7101.83	8.98
5	5	61523	Palermo Union Elementary	Butte	KK-08	1335	71.50	33.11	78.43	171	5235.99	9.08
6	6	62042	Burrel Union Elementary	Fresno	KK-08	137	6.40	12.32	86.96	25	5580.15	10.41
7	7	68536	Holt Union Elementary	San Joaquin	KK-08	195	10.00	12.90	94.62	28	5253.33	6.58
8	8	63834	Vineland Elementary	Kern	KK-08	888	42.50	18.81	100.00	66	4565.75	8.17
9	9	62331	Orange Center Elementary	Fresno	KK-08	379	19.00	32.19	93.14	35	5355.55	7.39
10	10	67306	Del Paso Heights Elementary	Sacramento	KK-06	2247	108.00	78.99	87.32	0	5036.21	11.61
11	11	65722	Le Grand Union Elementary	Merced	KK-08	446	21.00	18.61	85.87	86	4547.69	8.93
12	12	62174	West Fresno Elementary	Fresno	KK-08	987	47.00	71.71	98.61	56	5447.35	7.39
13	13	71795	Allensworth Elementary	Tulare	KK-08	103	5.00	22.43	98.13	25	6567.15	5.34
14	14	72181	Sunnyside Union Elementary	Tulare	KK-08	487	24.34	24.61	77.15	0	4818.61	8.28
15	15	72298	Woodville Elementary	Tulare	KK-08	649	36.00	14.64	76.27	31	5621.46	9.63
16	16	72041	Pixley Union Elementary	Tulare	KK-08	852	42.07	24.21	94.30	80	6026.36	7.45
17	17	63594	Lost Hills Union Elementary	Kern	KK-08	491	28.92	11.20	97.76	100	6723.24	6.22
18	18	63370	Buttonwillow Union Elementary	Kern	KK-08	421	25.50	8.55	77.91	50	5589.89	7.76
19	19	64709	Lennox Elementary	Los Angeles	KK-08	6880	303.03	21.28	94.97	960	5064.62	7.02
20	20	63560	Lamont Elementary	Kern	KK-08	2688	135.00	23.44	93.23	139	5433.59	5.70

## 5. Go to Data Visualization Tab and view the math score distribution.

## BoxPlotR: a web-tool for generation of box plots

☒ Boxplot

☐ Other

**Plot options**

☐ Minimum number of data points

☐ Add data points

☐ Definition of whisker extent

☐ Display number of data points

☐ Add sample means

☐ Variable width boxes

Widths of boxes are proportional to square-roots of the number of observations.

☐ Add notches

$\pm 1.58 \cdot IQR / \sqrt{n}$  - gives roughly 95% confidence that two medians differ (Chambers et al., 1983)

**Colour(s):**

light grey, white

Colours in HEX format can be chosen on <http://colorbrewer2.org/>

☐ Modify labels and title

☐ Adjust plot size

☐ Change font sizes

**Orientation of box plots:**

About


Data upload


Data visualization


Figure legend template

News

FAQ

 Download eps-file

 Download pdf-file

 Download svg-file

Error: only defined on a data frame with all numeric variables

Box plot statistics

	V1	district	school	county	grades	students	teachers	calworks	lunch	computer	expenditure	income	english	read	math
Upper whisker	420.00	75440.00	409.00	45.00	2.00	6880.00	332.84	40.55	100.00	855.00	6604.06	27.95	53.89	704.00	703.60
3rd quartile	315.50	70421.00	305.50	35.00	2.00	3011.00	146.40	19.03	66.88	376.50	5603.19	17.64	23.00	668.75	665.90
Median	210.50	67760.50	206.50	26.00	2.00	950.50	48.56	10.52	41.75	117.50	5214.52	13.73	8.78	655.75	652.45
1st quartile	105.50	64270.50	105.50	14.00	2.00	379.00	19.52	4.38	23.26	46.00	4906.13	10.64	1.94	640.40	639.35
Lower whisker	1.00	61382.00	1.00	1.00	2.00	81.00	4.85	0.00	0.00	0.00	3926.07	5.34	0.00	604.50	605.40
Nr. of data points	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00	420.00

This application was created by the Tyers and Rappalber labs. Please send bugs and feature requests to Michaela Spitzer (michaela.spitzer[at]gmail.com) and Jan Wildenhain (jan.wildenhai[at]gmail.com). This application uses the shiny package from RStudio .