

Plan:

1. Discuss characteristics of good tables
2. Identify ways to improve tables

Dataviz: Tables

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Allow viewer to make comparison top to bottom



Airport Name	Cleveland Hopkins Intl	William P Hobby	Metropolitan Oakland Intl	San Francisco Intl	Bellingham Intl
Airport Code	CLE	HOU	OAK	SFO	BLI
Mean Arrival Delay	26.15	10.25	10.07	8.86	8.67



Avoid comparisons
across rows

Airport Name	Airport Code	Mean Arrival Delay
Cleveland Hopkins Intl	CLE	26.15
William P Hobby	HOU	10.25
Metropolitan Oakland Intl	OAK	10.07
San Francisco Intl	SFO	8.86
Bellingham Intl	BLI	8.67



Compare down columns

Order rows logically



Airport Name	Airport Code	Mean Arrival Delay
Metropolitan Oakland Intl	OAK	10.07
Bellingham Intl	BLI	8.67
Cleveland Hopkins Intl	CLE	26.15
San Francisco Intl	SFO	8.86
William P Hobby	HOU	10.25



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longest delay

shortest delay

Order columns logically



Mean Arrival Delay	Airport Code	Airport Name
26.15	CLE	Cleveland Hopkins Intl
10.25	HOU	William P Hobby
10.07	OAK	Metropolitan Oakland Intl
8.86	SFO	San Francisco Intl
8.67	BLI	Bellingham Intl

Order sensically from left to right

Airport Name	Airport Code	Mean Arrival Delay
Cleveland Hopkins Intl	CLE	26.15
William P Hobby	HOU	10.25
Metropolitan Oakland Intl	OAK	10.07
San Francisco Intl	SFO	8.86
Bellingham Intl	BLI	8.67

Limit the number of rows and columns



	mean	max	UnseFip	Pop
Alabama	13.2	235	58	21.2
Alaska	10.0	283	48	44.5
Arizona	8.1	294	85	31.0
Arkansas	8.8	190	50	18.5
California	9.0	276	91	40.6
Colorado	7.9	204	78	36.7
Connecticut	3.3	113	77	11.1
Delaware	5.9	238	72	18.8
Florida	15.4	300	80	31.9
Georgia	17.4	211	80	25.8
Hawaii	5.3	45	83	20.2
Idaho	5.6	133	34	14.2
Illinois	10.4	248	83	24.0
Indiana	7.2	113	85	21.0
Iowa	2.2	58	57	11.3
Kansas	6.0	115	65	18.0
Kentucky	9.7	109	52	16.3
Louisiana	15.4	248	95	22.2
Maine	2.1	83	51	7.8
Maryland	11.3	203	87	27.9
Massachusetts	4.4	148	85	16.3
Michigan	12.1	255	74	35.1
Minnesota	2.7	72	86	14.9
Mississippi	16.1	209	44	17.1
Missouri	9.0	178	70	28.2
Montana	6.0	109	53	16.4
Nebraska	4.3	102	62	16.5
Nevada	12.8	202	81	49.0
New Hampshire	2.1	57	55	9.5
New Jersey	7.4	199	89	18.8
New Mexico	11.4	285	70	30.1
New York	11.1	254	86	28.1
North Carolina	13.0	287	45	16.1
North Dakota	0.8	45	44	7.3
Ohio	7.5	188	75	21.4
Oklahoma	6.6	191	68	20.0
Oregon	4.9	189	87	29.3
Pennsylvania	6.3	196	72	14.9
Rhode Island	2.4	114	87	6.3
South Carolina	14.4	279	48	22.5
South Dakota	3.8	85	45	12.8
Tennessee	13.2	188	59	28.9
Texas	12.7	291	80	25.5
Utah	3.2	100	60	22.9
Vermont	2.2	48	32	11.2
Virginia	8.5	198	63	20.7
Washington	4.0	73	148	26.2
West Virginia	5.7	81	39	9.3
Wisconsin	2.6	53	66	10.8
Wyoming	6.8	181	60	15.6



Too many rows!

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Include informative labels



X Needs better labels!

AN	AC	MAD
Cleveland Hopkins Intl	CLE	26.15
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Be mindful of significant digits



Airport Name	Airport Code	Mean Arrival Delay
Cleveland Hopkins Intl	CLE	26.15145
William P Hobby	HOU	10.258923
Metropolitan Oakland Intl	OAK	10.07987
San Francisco Intl	SFO	8.8688173
Bellingham Intl	BLI	8.671234

Too many digits



Airport Name	Airport Code	Mean Arrival Delay
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William P Hobby	HOU	10.25
Metropolitan Oakland Intl	OAK	10.07
San Francisco Intl	SFO	8.86
Bellingham Intl	BLI	8.67

Include a good caption



Table 1: Airports with the longest delay in arrival time for planes leaving the Pacific Northwest in 2014

Airport Name	Airport Code	Mean Arrival Delay
Cleveland Hopkins Intl	CLE	26.15
William P Hobby	HOU	10.25
Metropolitan Oakland Intl	OAK	10.07
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Include the source of the data



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Airport Name	Airport Code	Mean Arrival Delay
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San Francisco Intl	SFO	8.86
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Source: Chester Ismay's 'pnwflights14' R package

Format table so it can be quickly understood



Table 1: Airports with the longest delay in arrival time for planes leaving the Pacific Northwest in 2014

Airport Name	Airport Code	Mean Arrival Delay
Cleveland Hopkins Intl	CLE	26.15
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