

Laboratory 5
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1 First table

Country	Capital	language
Togo	Lome	French
Russia	Moscow	Russian
Germany	Berlin	German

2 Differnt Alignment

Now let's try different column alignments:

Left Aligned	Centered	Right Aligned
dog	meat	medium
horse	hay	large
frog	flies	small
rabbit	carrots	small
elephant	plants	very large

3 Too few items in a table row

what happens when we have too few items in a row:

Animal	Food	Size
dog	meat	
horse	hay	large
frog		

Observation: Empty cells are created for missing items. The table

still compiles but may look incomplete.

4 Too many items in a table row

What happens when we have too many items:

Observation: LaTeX throws an error: Extra alignment tab has been changed to \cr. The compilation fails until the extra items are removed.

5 Using \multicolumn

Now let's experiment with column spanning:

Animal	Food	Size
dog	meat	medium
Unknown Animal	large	
horse	Eats only hay	(large)
All animals in this table are mammals		
frog	flies	small

6 Advanced Table features

6.1 Custom column types

Using the `B` column type we defined for bold centered text:

Bold Header	Description	Size
DOG	Loyal companion	medium
CAT	Independent friend	small
FISH	Aquatic creature	tiny

6.2 Numeric alignment with siunitx

Proper alignment of numeric data:

Weight (kg)	Height (cm)
12.50	45.20
8.75	35.80
25.00	62.30
3.25	18.50
15.80	52.10

6.3 Table with notes

Using `threeparttable` for footnotes:

Table 1: Animal Characteristics with Notes

Animal	Diet	Lifespan
Dog	Omnivorous	10-13 years ¹
Cat	Carnivorous	12-15 years
Tortoise	Herbivorous	80-150 years ²

¹ Varies by breed and size

² Some species can live even longer

6.4 Column Styling

Styling columns with pre- and post-content:

Animal	Food	Size
<i>dog:</i>	meat	medium
<i>cat:</i>	fish	small
<i>bird:</i>	seeds	tiny

6.5 Multi-page Table Example

A long table that can span multiple pages:

Table 2: Extended Animal Data

Animal	Habitat	Avg Weight (kg)
African Elephant	Savanna	6000.0
Blue Whale	Ocean	140 000.0
Giraffe	Savanna	800.0

Table 2 – continued

Animal	Habitat	Avg Weight (kg)
Polar Bear	Arctic	450.0
Kangaroo	Outback	25.0
Penguin	Antarctica	5.0
Tiger	Jungle	90.0
Lion	Savanna	100.0
Gorilla	Rainforest	160.0
Eagle	Mountains	1.5
Dolphin	Ocean	75.0
Octopus	Ocean	2.5
Camel	Desert	150.0

Table 2 – continued

Animal	Habitat	Avg Weight (kg)
Wolf	Forest	40.0
Fox	Various	3.5
Rabbit	Meadows	0.5
Squirrel	Forests	0.2
Bat	Caves	0.0
Hippopotamus	Rivers	1500.0
Rhinoceros	Savanna	2300.0

These skills form the foundation

for creating professional, readable tables in scientific documents.