

Data Sets

Ames

```
ames <- AmesHousing::make_ames()
```

```
dim(ames)
```

```
[1] 2930    81
```

```
head(ames)
```

```
# A tibble: 6 x 81
  MS_SubClass MS_Zoning Lot_Frontage Lot_Area Street Alley Lot_Shape
  <fct>      <fct>      <dbl>    <int> <fct>  <fct> <fct>
1 One_Story_~ Resident~      141    31770 Pave   No_A~ Slightly~
2 One_Story_~ Resident~       80    11622 Pave   No_A~ Regular
3 One_Story_~ Resident~       81    14267 Pave   No_A~ Slightly~
4 One_Story_~ Resident~       93    11160 Pave   No_A~ Regular
5 Two_Story_~ Resident~       74    13830 Pave   No_A~ Slightly~
6 Two_Story_~ Resident~       78     9978 Pave   No_A~ Slightly~
# ... with 74 more variables: Land_Contour <fct>, Utilities <fct>,
#   Lot_Config <fct>, Land_Slope <fct>, Neighborhood <fct>,
#   Condition_1 <fct>, Condition_2 <fct>, Bldg_Type <fct>,
#   House_Style <fct>, Overall_Qual <fct>, Overall_Cond <fct>,
#   Year_Built <int>, Year_Remod_Add <int>, Roof_Style <fct>,
#   Roof_Matl <fct>, Exterior_1st <fct>, Exterior_2nd <fct>,
#   Mas_Vnr_Type <fct>, Mas_Vnr_Area <dbl>, Exter_Qual <fct>,
#   Exter_Cond <fct>, Foundation <fct>, Bsmt_Qual <fct>, Bsmt_Cond <fct>,
#   Bsmt_Exposure <fct>, BsmtFin_Type_1 <fct>, BsmtFin_SF_1 <dbl>,
#   BsmtFin_Type_2 <fct>, BsmtFin_SF_2 <dbl>, Bsmt_Unf_SF <dbl>,
#   Total_Bsmt_SF <dbl>, Heating <fct>, Heating_QC <fct>,
#   Central_Air <fct>, Electrical <fct>, First_Flr_SF <int>,
#   Second_Flr_SF <int>, Low_Qual_Fin_SF <int>, Gr_Liv_Area <int>,
#   Bsmt_Full_Bath <dbl>, Bsmt_Half_Bath <dbl>, Full_Bath <int>,
#   Half_Bath <int>, Bedroom_AbvGr <int>, Kitchen_AbvGr <int>,
#   Kitchen_Qual <fct>, TotRms_AbvGrd <int>, Functional <fct>,
#   Fireplaces <int>, Fireplace_Qu <fct>, Garage_Type <fct>,
#   Garage_Finish <fct>, Garage_Cars <dbl>, Garage_Area <dbl>,
#   Garage_Qual <fct>, Garage_Cond <fct>, Paved_Drive <fct>,
#   Wood_Deck_SF <int>, Open_Porch_SF <int>, Enclosed_Porch <int>,
#   Three_season_porch <int>, Screen_Porch <int>, Pool_Area <int>,
#   Pool_QC <fct>, Fence <fct>, Misc_Feature <fct>, Misc_Val <int>,
```

```
# Mo_Sold <int>, Year_Sold <int>, Sale_Type <fct>, Sale_Condition <fct>,
# Sale_Price <int>, Longitude <dbl>, Latitude <dbl>
```

Attrition

```
attrition <- rsample::attrition
```

```
dim(attrition)
```

```
[1] 1470 31
```

```
head(attrition)
```

	Age	Attrition	BusinessTravel	DailyRate	Department
1	41	Yes	Travel_Rarely	1102	Sales
2	49	No	Travel_Frequently	279	Research_Development
4	37	Yes	Travel_Rarely	1373	Research_Development
5	33	No	Travel_Frequently	1392	Research_Development
7	27	No	Travel_Rarely	591	Research_Development
8	32	No	Travel_Frequently	1005	Research_Development
	DistanceFromHome	Education	EducationField	EnvironmentSatisfaction	
1	1	College	Life_Sciences		Medium
2	8	Below_College	Life_Sciences		High
4	2	College	Other		Very_High
5	3	Master	Life_Sciences		Very_High
7	2	Below_College	Medical		Low
8	2	College	Life_Sciences		Very_High
	Gender	HourlyRate	JobInvolvement	JobLevel	JobRole
1	Female	94	High	2	Sales_Executive
2	Male	61	Medium	2	Research_Scientist
4	Male	92	Medium	1	Laboratory_Technician
5	Female	56	High	1	Research_Scientist
7	Male	40	High	1	Laboratory_Technician
8	Male	79	High	1	Laboratory_Technician
	JobSatisfaction	MaritalStatus	MonthlyIncome	MonthlyRate	
1	Very_High	Single	5993	19479	
2	Medium	Married	5130	24907	
4	High	Single	2090	2396	
5	High	Married	2909	23159	
7	Medium	Married	3468	16632	
8	Very_High	Single	3068	11864	
	NumCompaniesWorked	OverTime	PercentSalaryHike	PerformanceRating	

1	8	Yes	11	Excellent
2	1	No	23	Outstanding
4	6	Yes	15	Excellent
5	1	Yes	11	Excellent
7	9	No	12	Excellent
8	0	No	13	Excellent

	RelationshipSatisfaction	StockOptionLevel	TotalWorkingYears
1	Low	0	8
2	Very_High	1	10
4	Medium	0	7
5	High	0	8
7	Very_High	1	6
8	High	0	8

	TrainingTimesLastYear	WorkLifeBalance	YearsAtCompany	YearsInCurrentRole
1	0	Bad	6	4
2	3	Better	10	7
4	3	Better	0	0
5	3	Better	8	7
7	3	Better	2	2
8	2	Good	7	7

	YearsSinceLastPromotion	YearsWithCurrManager
1	0	5
2	1	7
4	0	0
5	3	0
7	2	2
8	3	6

MNIST

```
mnist <- dslabs::read_mnist()
```

```
dim(mnist$train$images)
```

```
[1] 60000 784
```

```
head(mnist$train$labels)
```

```
[1] 5 0 4 1 9 2
```

Grocery

```
url <- "https://koalaverse.github.io/homlr/data/my_basket.csv"
```

```
my_basket <- readr::read_csv(url)
```

Parsed with column specification:

```
cols(
  .default = col_double()
)
```

See spec(...) for full column specifications.

```
dim(my_basket)
```

```
[1] 2000  42
```

```
head(my_basket)
```

```
# A tibble: 6 x 42
```

```
  `7up` lasagna pepsi yop red.wine cheese  bbq bulmers mayonnaise
<dbl>  <dbl> <dbl> <dbl>    <dbl>  <dbl> <dbl>  <dbl>      <dbl>
1      0      0      0      0        0      0      0      0        0
2      0      0      0      0        0      0      0      0        0
3      0      0      0      0        0      0      0      0        0
4      0      0      0      2        1      0      0      0        0
5      0      0      0      0        0      0      0      2        0
6      0      0      0      0        0      0      0      0        0
```

```
# ... with 33 more variables: horlics <dbl>, chicken.tikka <dbl>,
# milk <dbl>, mars <dbl>, coke <dbl>, lottery <dbl>, bread <dbl>,
# pizza <dbl>, sunny.delight <dbl>, ham <dbl>, lettuce <dbl>,
# kronenbourg <dbl>, leeks <dbl>, fanta <dbl>, tea <dbl>, whiskey <dbl>,
# peas <dbl>, newspaper <dbl>, muesli <dbl>, white.wine <dbl>,
# carrots <dbl>, spinach <dbl>, pate <dbl>, instant.coffee <dbl>,
# twix <dbl>, potatoes <dbl>, fosters <dbl>, soup <dbl>,
# toad.in.hole <dbl>, coco.pops <dbl>, kitkat <dbl>, broccoli <dbl>,
# cigarettes <dbl>
```