There are three files:

* train.csv -- this data contains all of the training data for your model.
  + The target variable (SalePrice) is removed from the test set!
* test.csv -- this data contains the test data for your model. You will feed this data into your regression model to make predictions.
* sample\_sub\_reg.csv -- An example of a correctly formatted submission for this challenge (with a random number provided as predictions for SalePrice. Please ensure that your submission to Kaggle matches this format.

Codebook / Data Dictionary:

* SalePrice - the property's sale price in dollars. This is the target variable that you're trying to predict for this challenge.
* MSSubClass: The building class
  + 20 1-STORY 1946 & NEWER ALL STYLES
  + 30 1-STORY 1945 & OLDER
  + 40 1-STORY W/FINISHED ATTIC ALL AGES
  + 45 1-1/2 STORY - UNFINISHED ALL AGES
  + 50 1-1/2 STORY FINISHED ALL AGES
  + 60 2-STORY 1946 & NEWER
  + 70 2-STORY 1945 & OLDER
  + 75 2-1/2 STORY ALL AGES
  + 80 SPLIT OR MULTI-LEVEL
  + 85 SPLIT FOYER
  + 90 DUPLEX - ALL STYLES AND AGES
  + 120 1-STORY PUD (Planned Unit Development) - 1946 & NEWER
  + 150 1-1/2 STORY PUD - ALL AGES
  + 160 2-STORY PUD - 1946 & NEWER
  + 180 PUD - MULTILEVEL - INCL SPLIT LEV/FOYER
  + 190 2 FAMILY CONVERSION - ALL STYLES AND AGES
* MSZoning: Identifies the general zoning classification of the sale.
  + A Agriculture
  + C Commercial
  + FV Floating Village Residential
  + I Industrial
  + RH Residential High Density
  + RL Residential Low Density
  + RP Residential Low Density Park
  + RM Residential Medium Density
* LotFrontage: Linear feet of street connected to property
* LotArea: Lot size in square feet
* Street: Type of road access to property
  + Grvl Gravel
  + Pave Paved
* Alley: Type of alley access to property
  + Grvl Gravel
  + Pave Paved
  + NA No alley access
* LotShape: General shape of property
  + Reg Regular
  + IR1 Slightly irregular
  + IR2 Moderately Irregular
  + IR3 Irregular
* LandContour: Flatness of the property
  + Lvl Near Flat/Level
  + Bnk Banked - Quick and significant rise from street grade to building
  + HLS Hillside - Significant slope from side to side
  + Low Depression
* Utilities: Type of utilities available
  + AllPub All public Utilities (E,G,W,& S)
  + NoSewr Electricity, Gas, and Water (Septic Tank)
  + NoSeWa Electricity and Gas Only
  + ELO Electricity only
* LotConfig: Lot configuration
  + Inside Inside lot
  + Corner Corner lot
  + CulDSac Cul-de-sac
  + FR2 Frontage on 2 sides of property
  + FR3 Frontage on 3 sides of property
* LandSlope: Slope of property
  + Gtl Gentle slope
  + Mod Moderate Slope
  + Sev Severe Slope
* Neighborhood: Physical locations within Ames city limits
  + Blmngtn Bloomington Heights
  + Blueste Bluestem
  + BrDale Briardale
  + BrkSide Brookside
  + ClearCr Clear Creek
  + CollgCr College Creek
  + Crawfor Crawford
  + Edwards Edwards
  + Gilbert Gilbert
  + IDOTRR Iowa DOT and Rail Road
  + MeadowV Meadow Village
  + Mitchel Mitchell
  + Names North Ames
  + NoRidge Northridge
  + NPkVill Northpark Villa
  + NridgHt Northridge Heights
  + NWAmes Northwest Ames
  + OldTown Old Town
  + SWISU South & West of Iowa State University
  + Sawyer Sawyer
  + SawyerW Sawyer West
  + Somerst Somerset
  + StoneBr Stone Brook
  + Timber Timberland
  + Veenker Veenker
* Condition1: Proximity to main road or railroad
  + Artery Adjacent to arterial street
  + Feedr Adjacent to feeder street
  + Norm Normal
  + RRNn Within 200' of North-South Railroad
  + RRAn Adjacent to North-South Railroad
  + PosN Near positive off-site feature--park, greenbelt, etc.
  + PosA Adjacent to postive off-site feature
  + RRNe Within 200' of East-West Railroad
  + RRAe Adjacent to East-West Railroad
* Condition2: Proximity to main road or railroad (if a second is present)
  + Artery Adjacent to arterial street
  + Feedr Adjacent to feeder street
  + Norm Normal
  + RRNn Within 200' of North-South Railroad
  + RRAn Adjacent to North-South Railroad
  + PosN Near positive off-site feature--park, greenbelt, etc.
  + PosA Adjacent to postive off-site feature
  + RRNe Within 200' of East-West Railroad
  + RRAe Adjacent to East-West Railroad
* BldgType: Type of dwelling
  + 1Fam Single-family Detached
  + 2FmCon Two-family Conversion; originally built as one-family dwelling
  + Duplx Duplex
  + TwnhsE Townhouse End Unit
  + TwnhsI Townhouse Inside Unit
* HouseStyle: Style of dwelling
  + 1Story One story
  + 1.5Fin One and one-half story: 2nd level finished
  + 1.5Unf One and one-half story: 2nd level unfinished
  + 2Story Two story
  + 2.5Fin Two and one-half story: 2nd level finished
  + 2.5Unf Two and one-half story: 2nd level unfinished
  + SFoyer Split Foyer
  + SLvl Split Level
* OverallQual: Overall material and finish quality
  + 10 Very Excellent
  + 9 Excellent
  + 8 Very Good
  + 7 Good
  + 6 Above Average
  + 5 Average
  + 4 Below Average
  + 3 Fair
  + 2 Poor
  + 1 Very Poor
* OverallCond: Overall condition rating
  + 10 Very Excellent
  + 9 Excellent
  + 8 Very Good
  + 7 Good
  + 6 Above Average
  + 5 Average
  + 4 Below Average
  + 3 Fair
  + 2 Poor
  + 1 Very Poor
* YearBuilt: Original construction date
* YearRemodAdd: Remodel date (same as construction date if no remodeling or additions)
* RoofStyle: Type of roof
  + Flat Flat
  + Gable Gable
  + Gambrel Gabrel (Barn)
  + Hip Hip
  + Mansard Mansard
  + Shed Shed
* RoofMatl: Roof material
  + ClyTile Clay or Tile
  + CompShg Standard (Composite) Shingle
  + Membran Membrane
  + Metal Metal
  + Roll Roll
  + Tar&Grv Gravel & Tar
  + WdShake Wood Shakes
  + WdShngl Wood Shingles
* Exterior1st: Exterior covering on house
  + AsbShng Asbestos Shingles
  + AsphShn Asphalt Shingles
  + BrkComm Brick Common
  + BrkFace Brick Face
  + CBlock Cinder Block
  + CemntBd Cement Board
  + HdBoard Hard Board
  + ImStucc Imitation Stucco
  + MetalSd Metal Siding
  + Other Other
  + Plywood Plywood
  + PreCast PreCast
  + Stone Stone
  + Stucco Stucco
  + VinylSd Vinyl Siding
  + Wd Sdng Wood Siding
  + WdShing Wood Shingles
* Exterior2nd: Exterior covering on house (if more than one material)
  + AsbShng Asbestos Shingles
  + AsphShn Asphalt Shingles
  + BrkComm Brick Common
  + BrkFace Brick Face
  + CBlock Cinder Block
  + CemntBd Cement Board
  + HdBoard Hard Board
  + ImStucc Imitation Stucco
  + MetalSd Metal Siding
  + Other Other
  + Plywood Plywood
  + PreCast PreCast
  + Stone Stone
  + Stucco Stucco
  + VinylSd Vinyl Siding
  + Wd Sdng Wood Siding
  + WdShing Wood Shingles
* MasVnrType: Masonry veneer type
  + BrkCmn Brick Common
  + BrkFace Brick Face
  + CBlock Cinder Block
  + None None
  + Stone Stone
* MasVnrArea: Masonry veneer area in square feet
* ExterQual: Exterior material quality
  + Ex Excellent
  + Gd Good
  + TA Average/Typical
  + Fa Fair
  + Po Poor
* ExterCond: Present condition of the material on the exterior
  + Ex Excellent
  + Gd Good
  + TA Average/Typical
  + Fa Fair
  + Po Poor
* Foundation: Type of foundation
  + BrkTil Brick & Tile
  + CBlock Cinder Block
  + PConc Poured Contrete
  + Slab Slab
  + Stone Stone
  + Wood Wood
* BsmtQual: Height of the basement
  + Ex Excellent (100+ inches)
  + Gd Good (90-99 inches)
  + TA Typical (80-89 inches)
  + Fa Fair (70-79 inches)
  + Po Poor (<70 inches)
  + NA No Basement
* BsmtCond: General condition of the basement
  + Ex Excellent
  + Gd Good
  + TA Typical - slight dampness allowed
  + Fa Fair - dampness or some cracking or settling
  + Po Poor - Severe cracking, settling, or wetness
  + NA No Basement
* BsmtExposure: Walkout or garden level basement walls
  + Gd Good Exposure
  + Av Average Exposure (split levels or foyers typically score average or above)
  + Mn Mimimum Exposure
  + No No Exposure
  + NA No Basement
* BsmtFinType1: Quality of basement finished area
  + GLQ Good Living Quarters
  + ALQ Average Living Quarters
  + BLQ Below Average Living Quarters
  + Rec Average Rec Room
  + LwQ Low Quality
  + Unf Unfinshed
  + NA No Basement
* BsmtFinSF1: Type 1 finished square feet
* BsmtFinType2: Quality of second finished area (if present)
  + GLQ Good Living Quarters
  + ALQ Average Living Quarters
  + BLQ Below Average Living Quarters
  + Rec Average Rec Room
  + LwQ Low Quality
  + Unf Unfinshed
  + NA No Basement
* BsmtFinSF2: Type 2 finished square feet
* BsmtUnfSF: Unfinished square feet of basement area
* TotalBsmtSF: Total square feet of basement area
* Heating: Type of heating
  + Floor Floor Furnace
  + GasA Gas forced warm air furnace
  + GasW Gas hot water or steam heat
  + Grav Gravity furnace
  + OthW Hot water or steam heat other than gas
  + Wall Wall furnace
* HeatingQC: Heating quality and condition
  + Ex Excellent
  + Gd Good
  + TA Average/Typical
  + Fa Fair
  + Po Poor
* CentralAir: Central air conditioning
  + N No
  + Y Yes
* Electrical: Electrical system
  + SBrkr Standard Circuit Breakers & Romex
  + FuseA Fuse Box over 60 AMP and all Romex wiring (Average)
  + FuseF 60 AMP Fuse Box and mostly Romex wiring (Fair)
  + FuseP 60 AMP Fuse Box and mostly knob & tube wiring (poor)
  + Mix Mixed
* 1stFlrSF: First Floor square feet
* 2ndFlrSF: Second floor square feet
* LowQualFinSF: Low quality finished square feet (all floors)
* GrLivArea: Above grade (ground) living area square feet
* BsmtFullBath: Basement full bathrooms
* BsmtHalfBath: Basement half bathrooms
* FullBath: Full bathrooms above grade
* HalfBath: Half baths above grade
* Bedroom: Number of bedrooms above basement level
* Kitchen: Number of kitchens
* KitchenQual: Kitchen quality
  + Ex Excellent
  + Gd Good
  + TA Typical/Average
  + Fa Fair
  + Po Poor
* TotRmsAbvGrd: Total rooms above grade (does not include bathrooms)
* Functional: Home functionality rating
  + Typ Typical Functionality
  + Min1 Minor Deductions 1
  + Min2 Minor Deductions 2
  + Mod Moderate Deductions
  + Maj1 Major Deductions 1
  + Maj2 Major Deductions 2
  + Sev Severely Damaged
  + Sal Salvage only
* Fireplaces: Number of fireplaces
* FireplaceQu: Fireplace quality
  + Ex Excellent - Exceptional Masonry Fireplace
  + Gd Good - Masonry Fireplace in main level
  + TA Average - Prefabricated Fireplace in main living area or Masonry Fireplace in basement
  + Fa Fair - Prefabricated Fireplace in basement
  + Po Poor - Ben Franklin Stove
  + NA No Fireplace
* GarageType: Garage location
  + 2Types More than one type of garage
  + Attchd Attached to home
  + Basment Basement Garage
  + BuiltIn Built-In (Garage part of house - typically has room above garage)
  + CarPort Car Port
  + Detchd Detached from home
  + NA No Garage
* GarageYrBlt: Year garage was built
* GarageFinish: Interior finish of the garage
  + Fin Finished
  + RFn Rough Finished
  + Unf Unfinished
  + NA No Garage
* GarageCars: Size of garage in car capacity
* GarageArea: Size of garage in square feet
* GarageQual: Garage quality
  + Ex Excellent
  + Gd Good
  + TA Typical/Average
  + Fa Fair
  + Po Poor
  + NA No Garage
* GarageCond: Garage condition
  + Ex Excellent
  + Gd Good
  + TA Typical/Average
  + Fa Fair
  + Po Poor
  + NA No Garage
* PavedDrive: Paved driveway
  + Y Paved
  + P Partial Pavement
  + N Dirt/Gravel
* WoodDeckSF: Wood deck area in square feet
* OpenPorchSF: Open porch area in square feet
* EnclosedPorch: Enclosed porch area in square feet
* 3SsnPorch: Three season porch area in square feet
* ScreenPorch: Screen porch area in square feet
* PoolArea: Pool area in square feet
* PoolQC: Pool quality
  + Ex Excellent
  + Gd Good
  + TA Average/Typical
  + Fa Fair
  + NA No Pool
* Fence: Fence quality
  + GdPrv Good Privacy
  + MnPrv Minimum Privacy
  + GdWo Good Wood
  + MnWw Minimum Wood/Wire
  + NA No Fence
* MiscFeature: Miscellaneous feature not covered in other categories
  + Elev Elevator
  + Gar2 2nd Garage (if not described in garage section)
  + Othr Other
  + Shed Shed (over 100 SF)
  + TenC Tennis Court
  + NA None
* MiscVal: $Value of miscellaneous feature
* MoSold: Month Sold
* YrSold: Year Sold
* SaleType: Type of sale
  + WD Warranty Deed - Conventional
  + CWD Warranty Deed - Cash
  + VWD Warranty Deed - VA Loan
  + New Home just constructed and sold
  + COD Court Officer Deed/Estate
  + Con Contract 15% Down payment regular terms
  + ConLw Contract Low Down payment and low interest
  + ConLI Contract Low Interest
  + ConLD Contract Low Down
  + Oth Other