

Tidy Dataset

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```
dolphin1 <- read_csv('110608-Behavior_QC.csv')
```

```
glimpse(dolphin1)
```

```
## Rows: 2,592
## Columns: 25
## $ X1          <dbl> 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19~
## $ DeployID    <chr> "Tt0022", "Tt0022", "Tt0022", "Tt0022", "Tt0022", "Tt0022"~
## $ Ptt         <dbl> 110608, 110608, 110608, 110608, 110608, 110608, 110608, 11~
## $ DepthSensor <lgl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
## $ Source      <chr> "Transmission", "Transmission", "Transmission", "Transmiss~
## $ Instr       <chr> "Mk10", "Mk10", "Mk10", "Mk10", "Mk10", "Mk10", "Mk10", "M~
## $ Count       <dbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1~
## $ Start       <chr> "8/31/16 23:28", "8/31/16 23:33", "8/31/16 23:35", "8/31/1~
## $ End         <chr> "8/31/16 23:33", "8/31/16 23:35", "8/31/16 23:41", "8/31/1~
## $ What        <chr> "Dive", "Surface", "Dive", "Surface", "Dive", "Surface", "~
## $ Number      <dbl> 1, NA, 1, NA, 1, NA, 1, NA, 1, NA, 1, NA, 1, NA, 1, NA, 1,~
## $ Shape       <chr> "Square", NA, "V", NA, "V", NA, "U", NA, "V", NA, "V", NA,~
## $ DepthMin    <dbl> 146, NA, 182, NA, 154, NA, 134, NA, 89, NA, 126, NA, 107, ~
## $ DepthMax    <dbl> 149.5, NA, 185.5, NA, 157.5, NA, 137.5, NA, 90.5, NA, 129.~
## $ DurationMin <dbl> 331, 99, 361, 65, 289, 63, 219, 71, 313, 97, 241, 75, 321,~
## $ DurationMax <dbl> 333, 101, 363, 67, 291, 65, 221, 73, 315, 99, 243, 77, 323~
## $ Shallow     <dbl> NA, 100, NA, 66, NA, 64, NA, 67, NA, 85, NA, 64, NA, 54, N~
## $ Deep        <dbl> NA, 0, NA, 0, NA, 0, NA, 5, NA, 13, NA, 12, NA, 10, NA, 11~
## $ start       <dtm> 2016-08-31 19:28:00, 2016-08-31 19:33:00, 2016-08-31 19:3~
## $ end         <dtm> 2016-08-31 19:33:00, 2016-08-31 19:35:00, 2016-08-31 19:4~
## $ t.diff      <dbl> NA, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 60, 0, 0, 0, 0, 0, 0, 0,~
## $ flag        <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0,~
## $ divenum     <dbl> 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, ~
## $ depth       <dbl> 147.75, NA, 183.75, NA, 155.75, NA, 135.75, NA, 89.75, NA,~
## $ duration    <dbl> 332, 100, 362, 66, 290, 64, 220, 72, 314, 98, 242, 76, 322~
```

```
wide_dolph_dives <- dolphin1 %>%
```

```
  pivot_wider(names_from = What,
```

```
              values_from = c(duration, DurationMin, DurationMax, Shallow, start , end, Start,End))
```

```
glimpse(wide_dolph_dives)
```

```
## Rows: 2,592
## Columns: 32
## $ X1          <dbl> 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17~
## $ DeployID    <chr> "Tt0022", "Tt0022", "Tt0022", "Tt0022", "Tt0022", ~
## $ Ptt         <dbl> 110608, 110608, 110608, 110608, 110608, 110608, 11~
## $ DepthSensor <lgl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
```

```

## $ Source      <chr> "Transmission", "Transmission", "Transmission", "T~
## $ Instr       <chr> "Mk10", "Mk10", "Mk10", "Mk10", "Mk10", "Mk10", "M~
## $ Count       <dbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1, 1, ~
## $ Number      <dbl> 1, NA, 1, NA, 1, NA, 1, NA, 1, NA, 1, NA, 1, NA, 1, NA, 1~
## $ Shape       <chr> "Square", NA, "V", NA, "V", NA, "U", NA, "V", NA, ~
## $ DepthMin    <dbl> 146, NA, 182, NA, 154, NA, 134, NA, 89, NA, 126, N~
## $ DepthMax    <dbl> 149.5, NA, 185.5, NA, 157.5, NA, 137.5, NA, 90.5, ~
## $ Deep        <dbl> NA, 0, NA, 0, NA, 0, NA, 5, NA, 13, NA, 12, NA, 10~
## $ t.diff      <dbl> NA, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 60, 0, 0, 0, 0, 0, ~
## $ flag        <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, ~
## $ divenum     <dbl> 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, ~
## $ depth       <dbl> 147.75, NA, 183.75, NA, 155.75, NA, 135.75, NA, 89~
## $ duration_Dive <dbl> 332, NA, 362, NA, 290, NA, 220, NA, 314, NA, 242, ~
## $ duration_Surface <dbl> NA, 100, NA, 66, NA, 64, NA, 72, NA, 98, NA, 76, N~
## $ DurationMin_Dive <dbl> 331, NA, 361, NA, 289, NA, 219, NA, 313, NA, 241, ~
## $ DurationMin_Surface <dbl> NA, 99, NA, 65, NA, 63, NA, 71, NA, 97, NA, 75, NA~
## $ DurationMax_Dive <dbl> 333, NA, 363, NA, 291, NA, 221, NA, 315, NA, 243, ~
## $ DurationMax_Surface <dbl> NA, 101, NA, 67, NA, 65, NA, 73, NA, 99, NA, 77, N~
## $ Shallow_Dive <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
## $ Shallow_Surface <dbl> NA, 100, NA, 66, NA, 64, NA, 67, NA, 85, NA, 64, N~
## $ start_Dive   <dtm> 2016-08-31 19:28:00, NA, 2016-08-31 19:35:00, NA, ~
## $ start_Surface <dtm> NA, 2016-08-31 19:33:00, NA, 2016-08-31 19:41:00, ~
## $ end_Dive     <dtm> 2016-08-31 19:33:00, NA, 2016-08-31 19:41:00, NA, ~
## $ end_Surface  <dtm> NA, 2016-08-31 19:35:00, NA, 2016-08-31 19:42:00, ~
## $ Start_Dive   <chr> "8/31/16 23:28", NA, "8/31/16 23:35", NA, "8/31/16~
## $ Start_Surface <chr> NA, "8/31/16 23:33", NA, "8/31/16 23:41", NA, "8/3~
## $ End_Dive     <chr> "8/31/16 23:33", NA, "8/31/16 23:41", NA, "8/31/16~
## $ End_Surface  <chr> NA, "8/31/16 23:35", NA, "8/31/16 23:42", NA, "8/3~

```

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