# 3\_variations\_on\_flow\_n\_circle\_diagrams

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## Import the Libraries and Dataset

### Flows

### **Alluvial Diagrams**

- A good visualization to show parts of a whole world connections between different categories and data.
- Let's create some fake data about student performance in classes.
  - 21 students are divided in 3 groups, they are men and women, and they get High Pass, Pass, or Fail.
- Reference:

```
studentID = sample(seq(from = 21, to = 30), 7),
                gender = sample(c("M", "F"), 7, replace = TRUE),
                grades = sample(c("High Pass", "Pass", "Fail"), 7, replace = TRUE))
group3 <- tibble(groupid = groupid <- rep("group3", 7),</pre>
                studentID = sample(seq(from = 31, to = 40), 7),
                gender = sample(c("M", "F"), 7, replace = TRUE),
                grades = sample(c("High Pass", "Pass", "Fail"), 7, replace = TRUE))
students <- bind_rows(group1, group2, group3)</pre>
students
## # A tibble: 21 x 4
     groupid studentID gender grades
##
     <chr>
              <int> <chr> <chr>
                10 M
## 1 group1
                              Pass
## 2 group1
                  14 F
                            High Pass
## 3 group1
                  16 F
                            Pass
## 4 group1
                    3 F
                            Fail
## 5 group1
                   12 M
                             Fail
## 6 group1
                    20 F
                            Fail
## 7 group1
                   18 F
                            Fail
                           High Pass
High Pass
## 8 group2
                   21 M
                  28 M
## 9 group2
                              High Pass
## 10 group2
                  22 M
## # ... with 11 more rows
# summarize data
students_table <- students %>%
```

• Now, let's draw the alluvial framework

group\_by(groupid, gender, grades) %>%

count()







