

Layout

Design I

Sex: Surviving

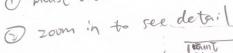
Treatment: The Surviving

Age group: The Time

Theory grade: The Surviving

Theory grade: The Surviving Time

I mouse over to see dotail info





+: Compare different survival analysis
models easily

Differ information of interest easily

Task: survival analysis which can be fittered by sex, treatment, age group, cancer type and tumor grade.

operations. Phoose from checkboxes to fitter information of interest.

eg sex: I male

If female

treatment: 11 NA

Schemo (Temozslomide)

a Radiation

O overlay another surviving analysis plot by clicking II

g. color 1 color 2

untitle 1 untitle 2

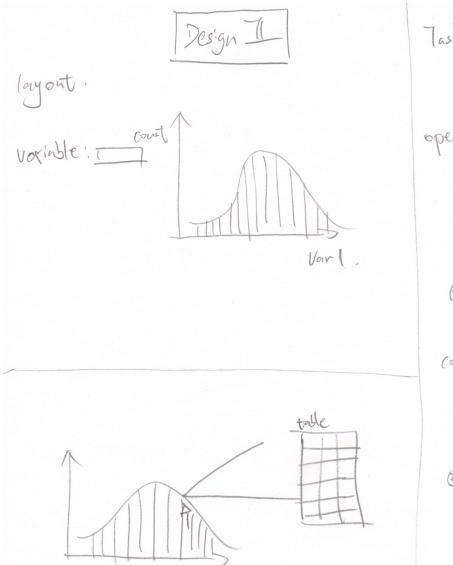
Sex 2 - 6 - 1

treatment 2 - 2 - 1

Age group, 2 - 2

Age group, 2 - 2

-: I no raw information displayed, potentially distributions of variables



Task: to see the distribution of each variable at a time. operation. O click on the distribution to see all information linked to that point

| eg.   |     |  |
|-------|-----|--|
| Count |     |  |
|       | Age |  |

| Age      | Patrat 20  | Sex |                         |
|----------|--|-----|-------------------------|
| 30       |  | +   |                         |
| 30       |  |     |                         |
| 30       |  |     | Martinen agency         |
| ,        | and the same of th |     | The Section (Section 1) |
| Superior |  |     | -                       |
| - Table  |  |     | 1                       |
|          | 1  |     | 1                       |

@ select variable of interest

t : Ovien variables distribution.

- @ extract detailed information from distribution
- . O no analysis involved.
  - 10 no filtering of intomation
  - 3 no comparision of information

## Design I

layout:

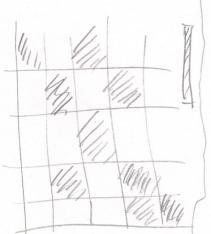
variables, a sex

12 treatment

2 cancer type

c age

a mutation count



Task: Hertmap of correlations between variables

operations. O check boxes to select variables of interest

Variables: Description of sex provided the sex provided t

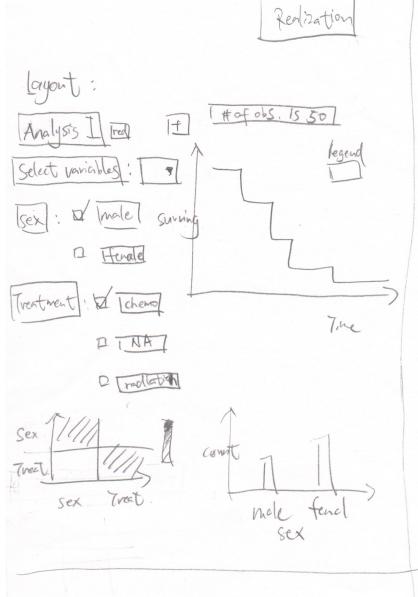
Correlation [0.63]

monse over to see correlation between two variables t Dview correlations between any too variables

@ relect lariables of interest

- : ( no analysis

@ no subgroup information



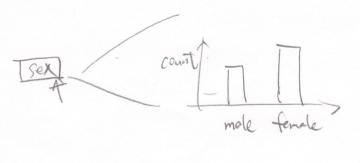
Task: Of survival Gralysis and compare.

- 2 variable distributions
- 3 heatings of correlations

operations. In D, El con add a analysis, choose fitterny variables and select subgroup of interest.

In D, click [sex] to view individual variable distributions

In (3), correlation heatmap automatic shown after variables chosen in an individual analysis



Correlation



Detail:

O softuare: R
packages: "survival", "shiny", "plotly".

- Do Data to be tested: HWZ data
- 3) Esthated the to brild: 50 hay
- Design Implement > Evaluation > Validate

Task in more date is choose audience/ users