Untitled

## Loading required package: lattice

##   
## Attaching package: 'mice'

## The following objects are masked from 'package:base':  
##   
## cbind, rbind

## wt gestation parity meth   
## Min. : 55.0 Min. :148.0 Min. : 0.000 Min. : 0.000   
## 1st Qu.:108.8 1st Qu.:272.0 1st Qu.: 0.000 1st Qu.: 0.000   
## Median :120.0 Median :280.0 Median : 1.000 Median : 3.000   
## Mean :119.6 Mean :279.3 Mean : 1.932 Mean : 3.129   
## 3rd Qu.:131.0 3rd Qu.:288.0 3rd Qu.: 3.000 3rd Qu.: 7.000   
## Max. :176.0 Max. :353.0 Max. :13.000 Max. :10.000   
## NA's :13 NA's :1   
## mage med mht mwt   
## Min. :15.00 Min. :0.000 Min. :53.00 Min. : 87.0   
## 1st Qu.:23.00 1st Qu.:2.000 1st Qu.:62.00 1st Qu.:114.8   
## Median :26.00 Median :2.000 Median :64.00 Median :125.0   
## Mean :27.26 Mean :2.917 Mean :64.05 Mean :128.6   
## 3rd Qu.:31.00 3rd Qu.:4.000 3rd Qu.:66.00 3rd Qu.:139.0   
## Max. :45.00 Max. :7.000 Max. :72.00 Max. :250.0   
## NA's :2 NA's :1 NA's :22 NA's :36   
## feth fage fed fht   
## Min. : 0.000 Min. :18.00 Min. :0.000 Min. :60.0   
## 1st Qu.: 0.000 1st Qu.:25.00 1st Qu.:2.000 1st Qu.:68.0   
## Median : 3.000 Median :29.00 Median :4.000 Median :71.0   
## Mean : 3.154 Mean :30.35 Mean :3.127 Mean :70.2   
## 3rd Qu.: 7.000 3rd Qu.:34.00 3rd Qu.:5.000 3rd Qu.:72.0   
## Max. :10.000 Max. :62.00 Max. :7.000 Max. :78.0   
## NA's :31 NA's :7 NA's :13 NA's :492   
## fwt marital income smoke   
## Min. :110.0 Min. :0.000 Min. :0.000 Min. :0.0000   
## 1st Qu.:155.0 1st Qu.:1.000 1st Qu.:2.000 1st Qu.:0.0000   
## Median :170.0 Median :1.000 Median :3.000 Median :1.0000   
## Mean :171.2 Mean :1.038 Mean :3.701 Mean :0.8018   
## 3rd Qu.:185.0 3rd Qu.:1.000 3rd Qu.:5.000 3rd Qu.:1.0000   
## Max. :260.0 Max. :5.000 Max. :9.000 Max. :3.0000   
## NA's :499 NA's :124 NA's :10   
## time number   
## Min. :0.0000 Min. :0.00   
## 1st Qu.:0.0000 1st Qu.:0.00   
## Median :1.0000 Median :1.00   
## Mean :0.9625 Mean :1.76   
## 3rd Qu.:1.0000 3rd Qu.:3.00   
## Max. :9.0000 Max. :8.00   
## NA's :10 NA's :21

##   
## iter imp variable  
## 1 1 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 1 2 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 1 3 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 1 4 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 1 5 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 2 1 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 2 2 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 2 3 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 2 4 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 2 5 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 3 1 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 3 2 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 3 3 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 3 4 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 3 5 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 4 1 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 4 2 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 4 3 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 4 4 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 4 5 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 5 1 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 5 2 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
## 5 3 gestation meth mage med mht mwt feth fage fed fht fwt marital income smoke time number  
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## Warning: Number of logged events: 160

## [1] "0" "1" "2" "3" "4" "5"

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## [1] FALSE

##   
## Call:  
## lm(formula = wt ~ gestation + parity + meth + mage + mht + mwt +   
## fht + fwt + income + time + number + gestation:income + mwt:income +   
## gestation:mage + gestation:fwt + gestation:mwt + gestation:fht +   
## gestation:mht + fht:income, data = births\_clean)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -56.399 -9.709 -0.081 9.291 49.184   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 2.527188 263.943004 0.010 0.99236   
## gestation 0.023728 0.943331 0.025 0.97994   
## parity 1.154553 0.276951 4.169 3.28e-05 \*\*\*  
## methothers -0.354527 1.567009 -0.226 0.82105   
## methAfrican-American -8.604631 1.219113 -7.058 2.84e-12 \*\*\*  
## mage -3.592977 1.472808 -2.440 0.01485 \*   
## mht -4.719476 3.429657 -1.376 0.16905   
## mwt 1.113916 0.420001 2.652 0.00810 \*\*   
## fht 6.730279 3.012969 2.234 0.02568 \*   
## fwt -1.038024 0.364709 -2.846 0.00450 \*\*   
## income -6.025084 5.758476 -1.046 0.29563   
## timestill smokes -14.623615 5.453455 -2.682 0.00743 \*\*   
## timeothers -7.858835 5.548822 -1.416 0.15694   
## number1-4 10.975128 5.583970 1.965 0.04959 \*   
## number5-9 8.531033 5.524118 1.544 0.12277   
## numberothers 4.373278 5.560646 0.786 0.43175   
## number20-29 4.463578 5.470285 0.816 0.41468   
## gestation:income 0.035422 0.013102 2.704 0.00696 \*\*   
## mwt:income 0.025850 0.009357 2.763 0.00582 \*\*   
## gestation:mage 0.012598 0.005246 2.402 0.01647 \*   
## gestation:fwt 0.003940 0.001308 3.013 0.00264 \*\*   
## gestation:mwt -0.004006 0.001496 -2.677 0.00752 \*\*   
## gestation:fht -0.021901 0.010763 -2.035 0.04208 \*   
## gestation:mht 0.020406 0.012286 1.661 0.09700 .   
## fht:income -0.104940 0.065207 -1.609 0.10780   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 15.21 on 1211 degrees of freedom  
## Multiple R-squared: 0.3176, Adjusted R-squared: 0.3041   
## F-statistic: 23.48 on 24 and 1211 DF, p-value: < 2.2e-16