```
multiscale::analysis
        ::MatFactory
# rows
# cols
# simulationTime
#ERR INPUT OPEN
# ERR IMG RESOLUTION
#ERR IN EXTRA DATA
+ MatFactory()
+ ~MatFactory()
+ create()
+ createFromViewerImage()
+ maxColourBarIntensityFrom
ViewerImage()
# initInputFile()
# processConcentrations()
# convertToIntensity()
# isValidViewerImage()
multiscale::analysis
  ::RectangularMatFactory
- ERR CONC
- ROI_START_X
- ROI START_Y
- ROI WIDTH

    ROI HEIGHT

- INPUT IMG WIDTH
- INPUT IMG HEIGHT
- COLOURBAR MAX X

    COLOURBAR MAX Y

+ RectangularMatFactory()
+ ~RectangularMatFactory()
+ createFromViewerImage()
+ maxColourBarIntensityFrom
Viewerlmage()
# processConcentrations()
# isValidViewerImage()
```