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print.table <- function(s,
  type = getOption("table.type", "latex"),
  file = getOption("table.file", ""),
  append = getOption("table.append", FALSE),
  floating = getOption("table.floating", TRUE),
  floating.environment = getOption("table.floating.environment", "table"),
  table.placement = getOption("table.table.placement", "bt"),
  caption.placement = getOption("table.caption.placement", "bottom"),
  caption.width = getOption("table.caption.width", NULL),
  latex.environment = getOption("table.latex.environment", c("center")),
  tabular.environment = getOption("table.tabular.environment", "tabular"),
  size = getOption("table.size", NULL),
  hline.after = getOption("table.hline.after", c(-1,0,nrow(s))),
  NA.string = getOption("table.NA.string", ""),
  include.rownames = getOption("table.include.rownames", TRUE),
  include.colnames = getOption("table.include.colnames", TRUE),
  only.contents = getOption("table.only.contents", FALSE),
  add.to.row = getOption("table.add.to.row", NULL),
  sanitize.text.function = getOption("table.sanitize.text.function", NULL),
  sanitize.rownames.function = getOption("table.sanitize.rownames.function",
    sanitize.text.function),
  sanitize.colnames.function = getOption("table.sanitize.colnames.function",
    sanitize.text.function),
  math.style.negative = getOption("table.math.style.negative", FALSE),
  html.table.attributes = getOption("table.html.table.attributes", "border=1"),
  print.results = getOption("table.print.results", TRUE),
  format.args = getOption("table.format.args", NULL),
  rotate.rownames = getOption("table.rotate.rownames", FALSE),
  rotate.colnames = getOption("table.rotate.colnames", FALSE),
  booktabs = getOption("table.booktabs", FALSE),
  scalebox = getOption("table.scalebox", NULL),
  width = getOption("table.width", NULL),
  comment = getOption("table.comment", TRUE),
  timestamp = getOption("table.timestamp", date()),
  ...)

  type <- tolower(type)

  #validate that output type and various latex environments are valid
  validateEnvVars <- envrValidate(type, floating.environment, table.placement,
    caption.placement, tabular.environment, floating,
    floating <- validateEnvVars$floating,
    table.placement <- validateEnvVars$table.placement

  #assign caption and short.caption from attributes for usage
  captions <- captionOrginal(s)
  short.caption <- caption$short.caption
  caption <- captions$caption

  ## Claudio Apsteinelli <claudio@twintec.it> dated 2006-07-28 include.rownames,
  ## include.colnames
  pos <- 0
  if (include.rownames) pos <- 1

  ## add.to.row checks
  if (!is.null(add.to.row)) {
    #validate that add.to.row commands have been entered correctly, return add.to.row and upos
    res <- addTabEnvValidate(add.to.row, pos, x)
    add.to.row <- res$add.to.row
    upos <- res$pos
  } else {
    add.to.row <- list(pos = list(), command = character(0))
    upos <- 0
  }

  #assign the latex line rules to be used
  if (type == "latex") {
    ##this assigns the latex line rules depending on booktabs
    PREAMBLER <- lineRule(s, hline.after, booktabs)
  } else {
    PREAMBLER <- ""
  }

  lastcol <- rep(" ", nrow(s)+2)

  #line rule locations assigned into add.to.row
  add.to.row <- hlineLocations(booktabs, add.to.row, upos, hline.after, PREAMBLER)

  #assign position and command of addtorow commands
  if (length(add.to.row$command) > 0) {
    addCmds <- assignAddCommands(add.to.row, lastcol)
    lastcol <- addCmds$lastcol
  }

  #params are a set of CAFE variables used to build the table
  if (type == "latex") {
    params <- latexParams(type, tabular.environment, floating,
      floating.environment, table.placement,
      latex.environment, s, include.rownames,
      width, caption.placement, short.caption,
      caption, lastcol, scalebox, size,
      caption.width)
  } else {
    params <- htmlParams(html.table.attributes, caption.placement, s, pos)
  }

  #use formatted user arguments and buildParams to make and return final table
  result <- makeTable(params, file, append, comment, type, timestamp, only.contents, floating, caption,
    caption.placement, s, include.colnames, include.rownames, sanitize.colnames.function,
    sanitize, rotate.colnames.pos, sanitize.rownames.function, rotate.rownames, format.args,
    sanitizeNumbers, math.style.negative, sanitize.text.function, NA.string, lastcol,
    tabular.environment, booktabs, PREAMBLER)

  if (print.results){
    print(result)
  }

  return(invisible(result$text))
}

```