Project 3: State Diagram

Team Return(Awesome) | November 3, 2019

Team Members:
Connie Li
Ethan Brenner
Kyle Kappes-Sum
Malena Schoeni

(no change)

Page has been modified (superstate) / page is ready to use

change value A,
change unit A, or
change unit B

ready to
convert — click "Convert!" → unit B =
<converted
value>

(no change)

Page is initialized (superstate)

change value A

Constant selector initialized (superstate) / not ready to convert

Unit Category = Energy

value A = 1   value B = ""

Unit A = Joules (J)   Unit B = Joules (J)

change unit A
or change unit B

load page
& initialize GUI

Constant selector initialized (superstate)

Constant =
Universal Gas
Constant, R

unit value = 1.987

Constant unit =
Btu/lbmol·°R

change constant
or change unit

ready to get
constant — click "Constant!" → constant
value is
displayed

(no change)

(no change)

close page

Formula calculator initialized (superstate)

Formula = "PV = nRT"

P value = ""   n value = ""

V value = ""   T value = ""

change variable values

change variable values

variables
have values

check variables' validity

variables
are not valid — show help text → help text is
displayed
on page

variables
are valid — perform calculation → calculated
variable is
displayed

change variable values

refresh page