## CommandFactoryI

- + virtual std::unique ptr< CommandI > MakeOpenFile
  - Command(std::string file path)=0

  - + virtual std::unique
  - ptr < CommandI > MakeDelete ElementCommand(sdf::ElementPtr
  - element to delete)=0

  - + virtual std::unique ptr< CommandI > MakeAddElement
  - Command(sdf::ElementPtr parent element, sdf::ElementPtr new
  - element)=0
- + virtual std::unique
  - ptr< Command()=0 + virtual std::unique
    - ptr< Command()=0
  - + virtual std::unique
    - ptr< CommandI > MakeSaveFile  $\overline{C}$ ommand()=0
  - + virtual std::unique
    - ptr< CommandI > MakeModify AttributeCommand(sdf::ParamPtr attribute to modify, std::string
    - new value = 0
  - + virtual std::unique ptr < Commandl > MakeModify
    - AttributeCommand(sdf::ParamPtr attribute to modify, bool new
  - $_{\text{value}} = \overline{0}$ + virtual std::unique
    - ptr< CommandI > MakeModify ElementCommand(sdf::ElementPtr
  - element\_to\_modify, std::string new\_value)=0 + virtual std::unique
    - ptr< CommandI > MakeModify ElementCommand(sdf::ElementPtr element\_to\_modify, bool new
- value)=0+ virtual std::unique
- ptr< CommandI > MakeDelete
  - AttributeCommand(sdf::ParamPtr attribute to delete)=0
  - + virtual void PushToUndoCommands Stack(std::unique\_ptr< CommandI
  - > command, const bool new change=true)=0
  - + virtual void PushToRedoCommands Stack(std::unique\_ptr< CommandI
  - > command)=0 + virtual void ClearUndoRedo
  - Stacks()=0virtual void Initialize (std::shared ptr< GUII
    - > gui, std::shared ptr < SDFormatParserl > sdformatParser)=0