

```

+-----+
|   ColorConfig   |
+-----+
| - filename: str  |
| - primary: str   |
| - off: str       |
+-----+
| + __init__(filename="colors.cfg") |
| + load_colors(): void |
+-----+

```



| used by



```

+-----+
|   UVSimGUI   |
+-----+
| - root: Tk    |
| - sim: UVSim  |
| - load: Load_Program |
| - accumulator_var: StringVar |
| - run_button: Button |
| - memory_entries: list[Entry]|
| - output_lines: list[str]|
| - colors: ColorConfig |
+-----+
| + __init__(root: Tk) |
| + build_widgets(): void |
| + load_file(): void |
| + save_file(): void |
| + run_program(): void |
| + step_through_program(): void |
| + show_read_popup(operand: int): int |
| + update_memory_display(): void |
| + update_output(): void |
| + clear_output(): void |
+-----+

```



|
uses|



```

+-----+
|   UVSim   |
+-----+
| - cpu: CPU |
| - memory: Memory|
+-----+
| + __init__(memory: Memory = None) |
| + run(): void |

```



|
has-a|



```

+-----+
| Load_Program |
+-----+
| - memory: Memory|
+-----+
| + __init__() |
+-----+
| + load_program(filename: str): void |

```



|
uses



```

+-----+
|   Convert   |
+-----+
| + convert_to_int(word): int or False |
+-----+
| + load_program(filename: str): void |

```

