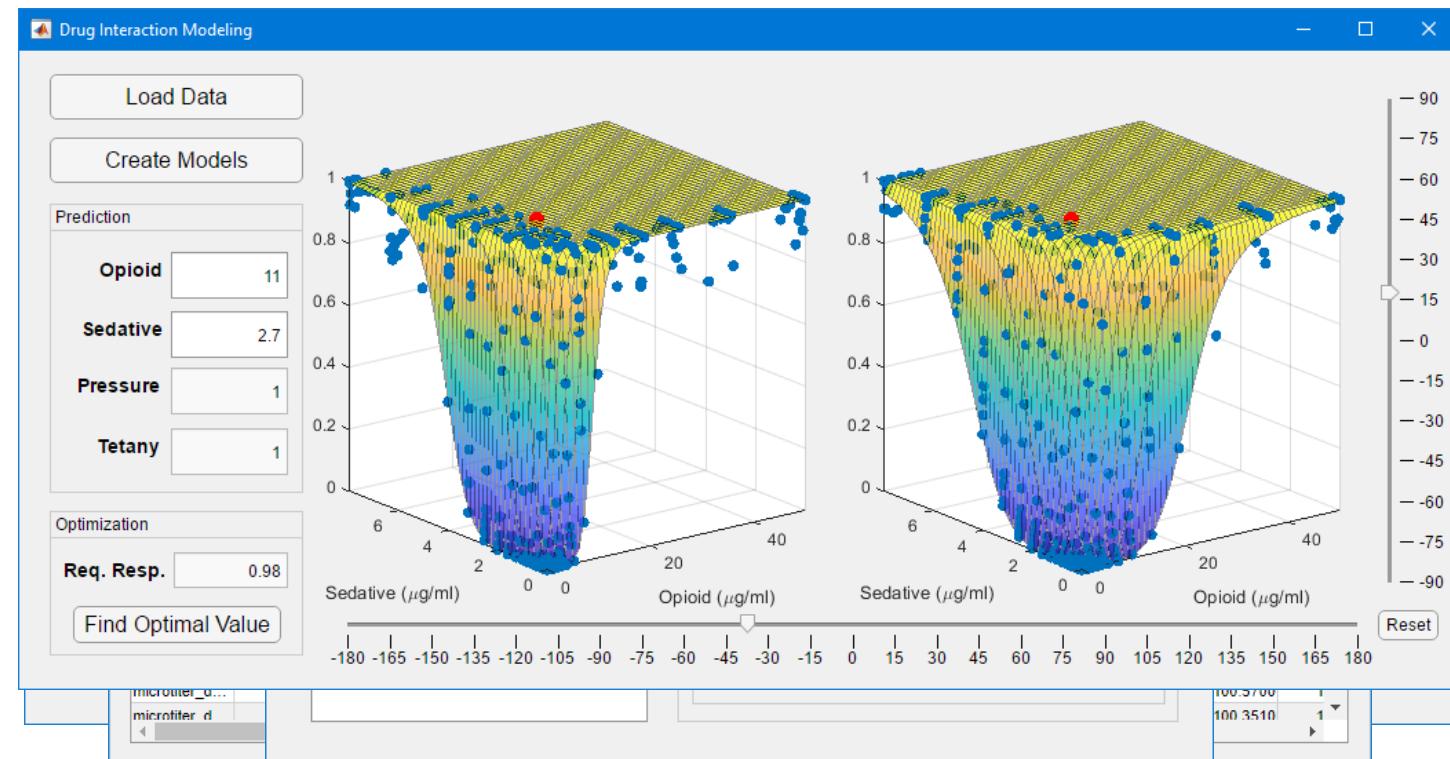


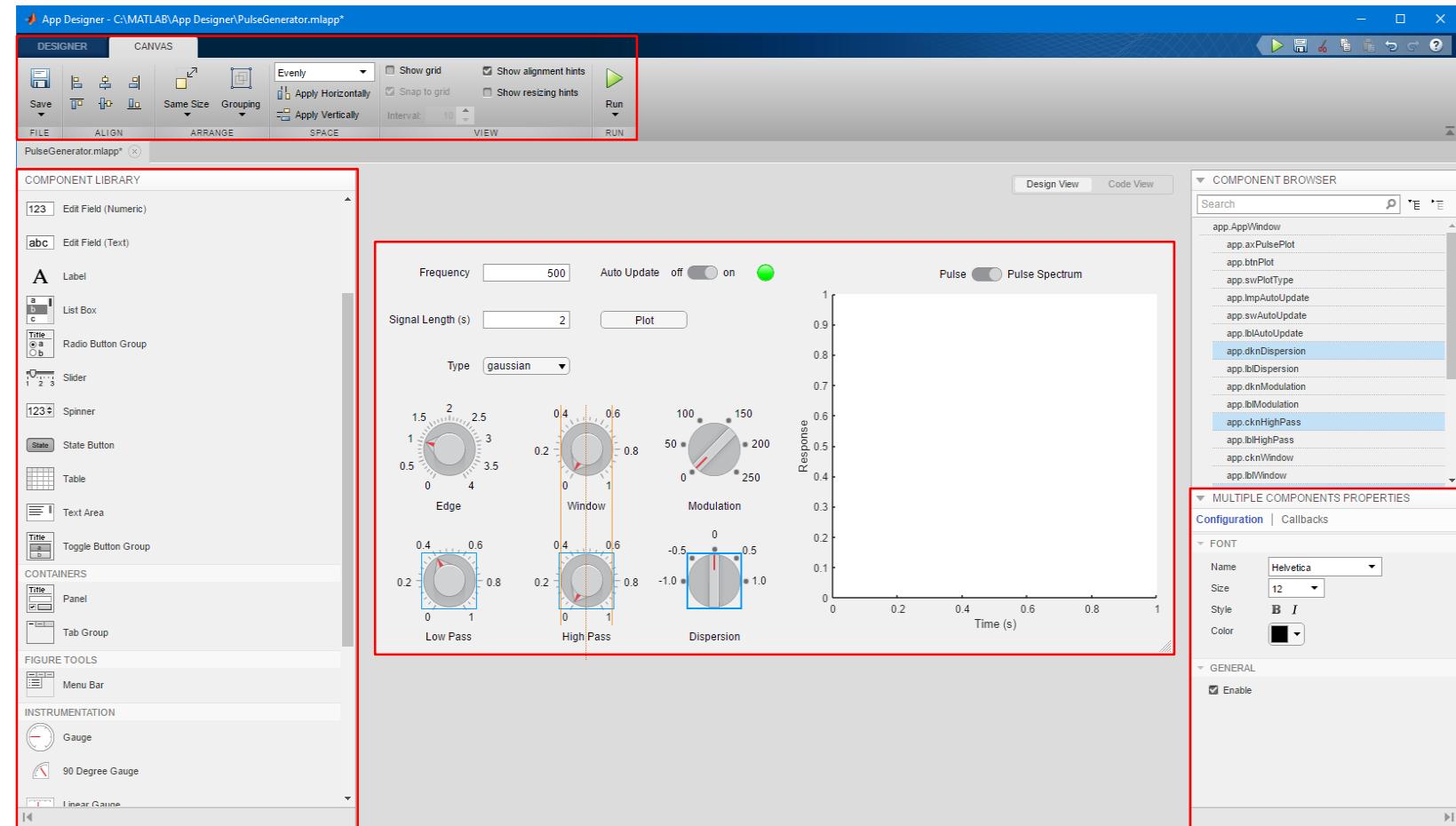
What is App Designer?

- ✓ A new environment for building MATLAB Apps
- ✓ Broad set of UI components including instrumentation controls
- ✓ Integrates the two primary tasks of app building
 - ✓ laying out visual components
 - ✓ programming app behavior
- ✓ Generates code as a MATLAB class



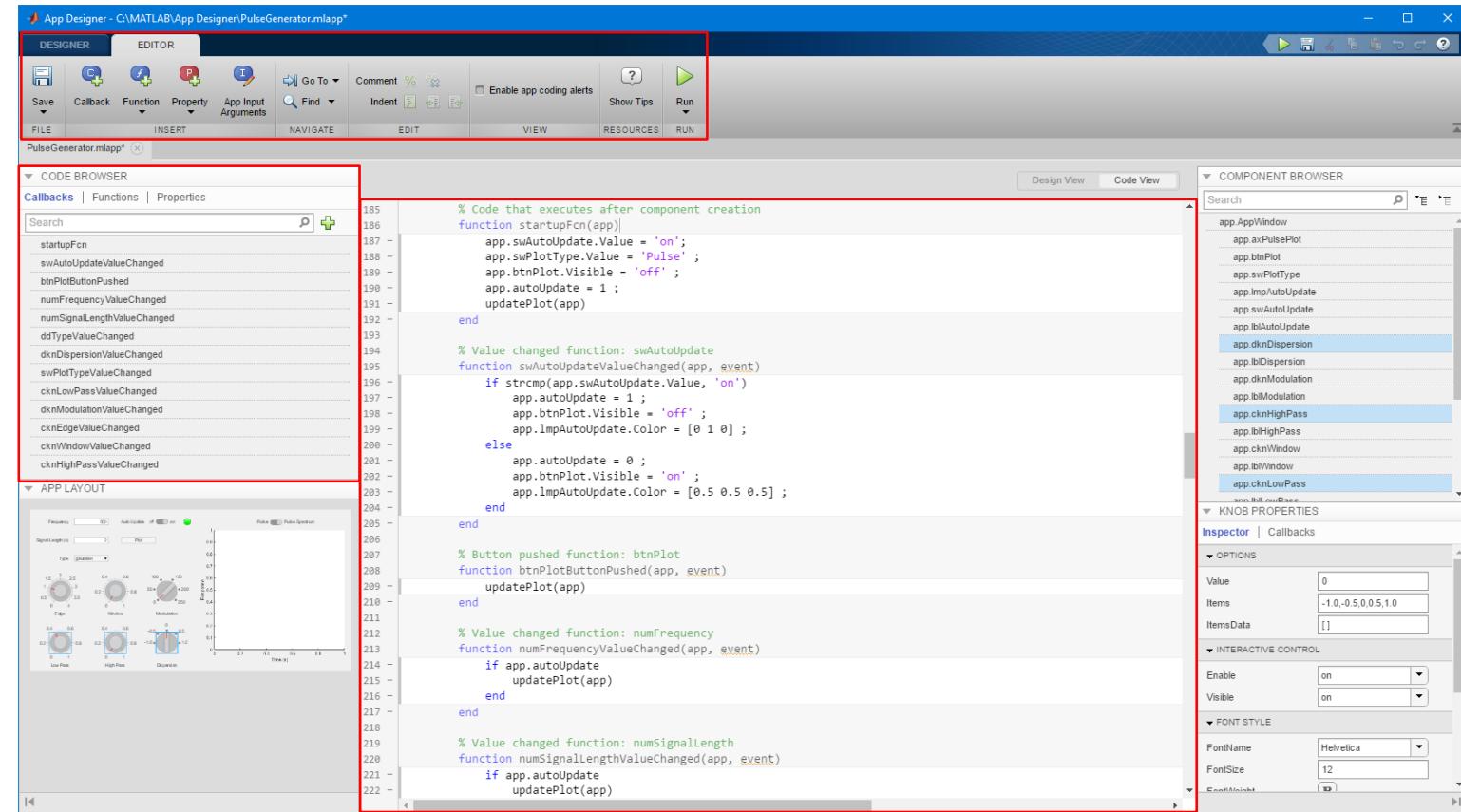
The App Designer Desktop – Design View

- ✓ Design and layout the app's interface
- ✓ Component Library
 - ✓ Select components and add them to the canvas
- ✓ Design Canvas
 - ✓ Layout components
- ✓ Toolstrip
 - ✓ Align, space, and group components
- ✓ Properties panel
 - ✓ Set common component properties



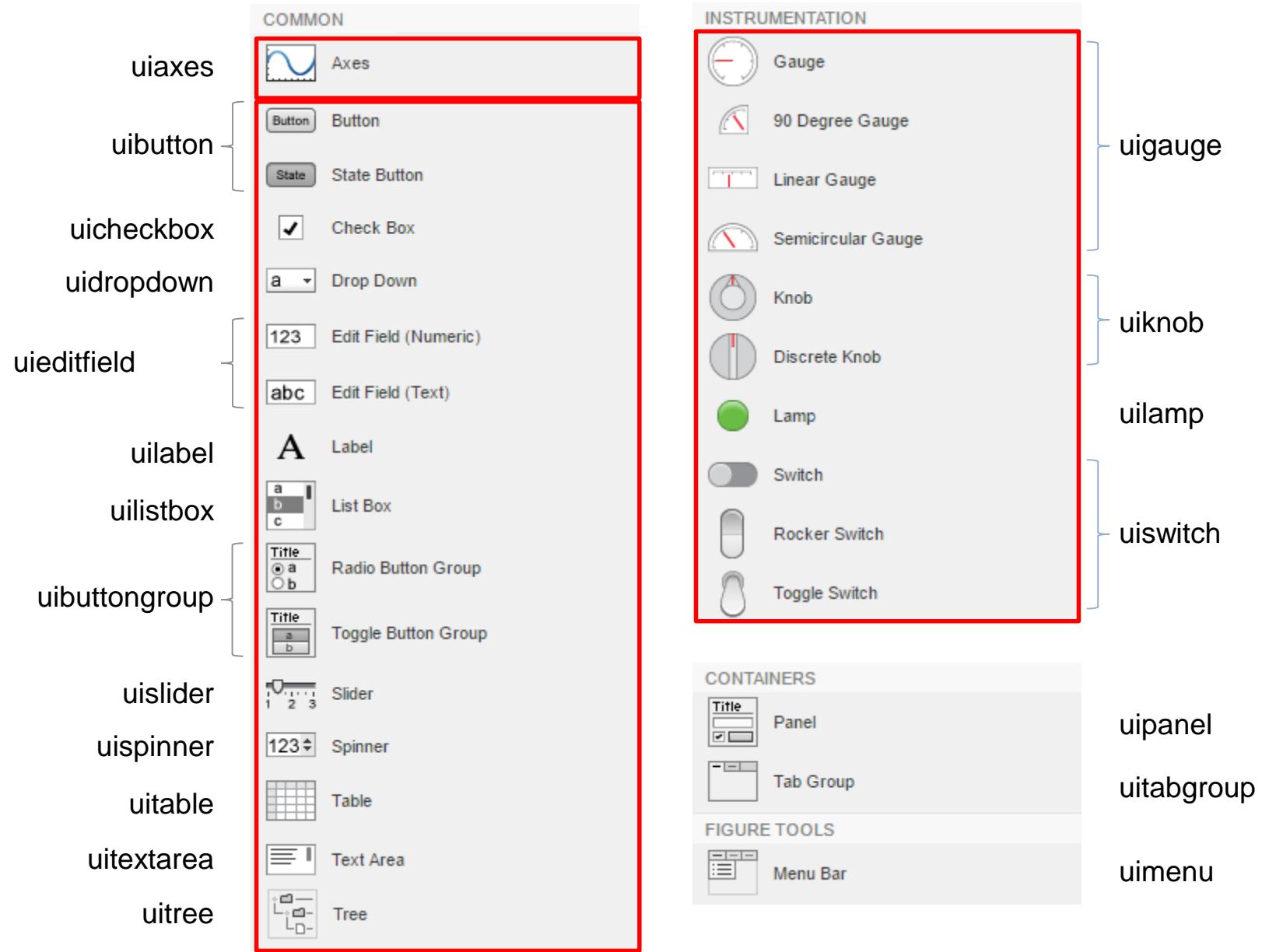
The App Designer Desktop – Code View

- ✓ Write code to control the app's behavior
- ✓ Editor
 - ✓ Write code for callbacks and other functions
- ✓ Code Browser
 - ✓ Navigate to callbacks and app properties
- ✓ Toolstrip
 - ✓ Add new code elements – properties, callbacks, and functions



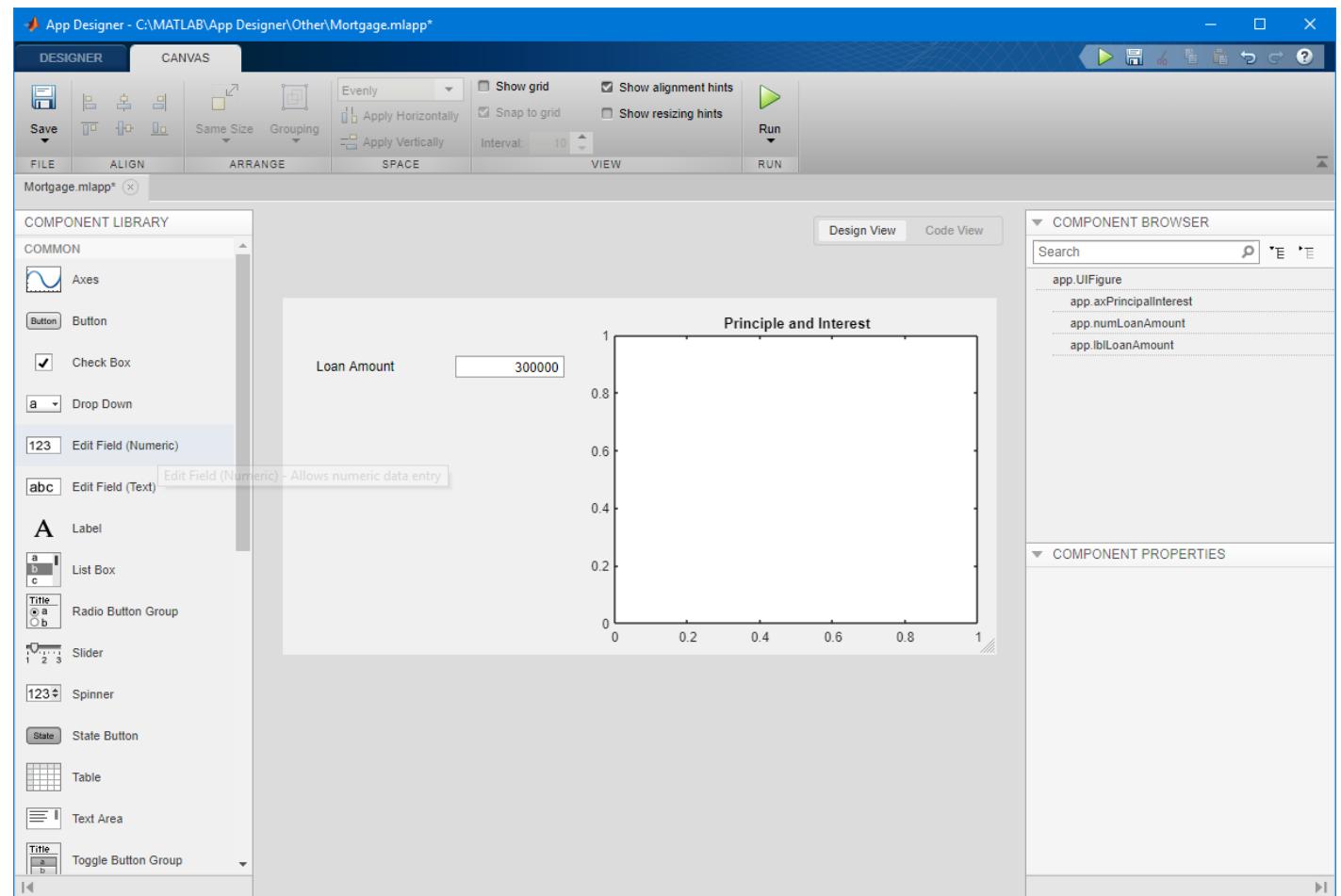
App Designer Components

- ✓ New javascript uifigure component
- ✓ New uiaxes component for web graphics
- ✓ Expanded set of standard components
- ✓ New instrumentation components
- ✓ Other components being considered
 - ✓ file picker
 - ✓ date picker
 - ✓ toolbar



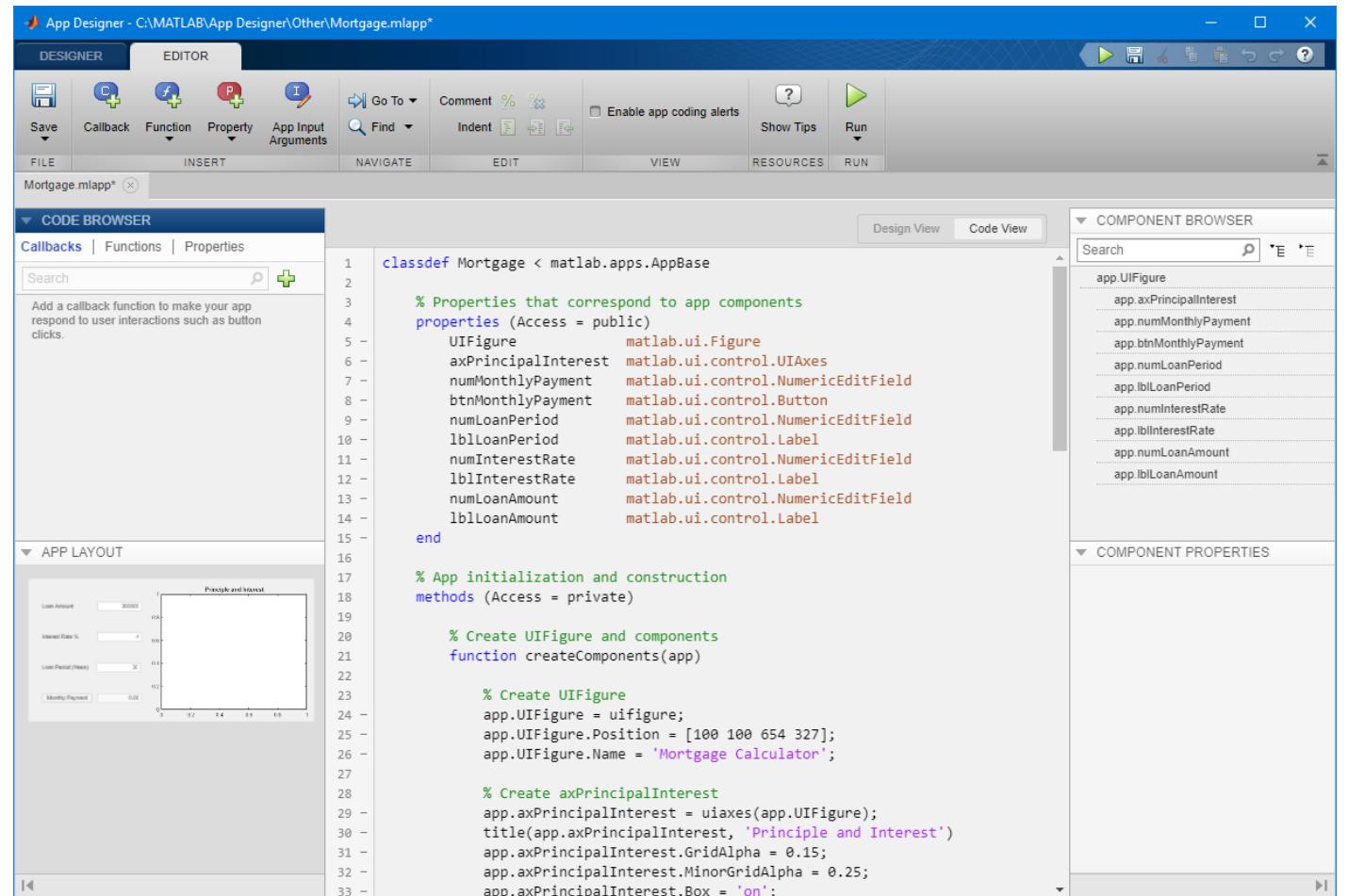
Design and Layout – Basic Steps

- ✓ Select a component from the library and drag it to the canvas
- ✓ Name the component
- ✓ Set the component properties
- ✓ Position manually or align with other components



Coding App Behavior – Basic Steps

- ✓ Select a component
- ✓ Create a callback
- ✓ Add callback code
- ✓ Use hints to avoid common programming errors



App Code Structure

- ✓ Code created for the App is a MATLAB class
- ✓ Controls and shared data are stored as properties of the class
- ✓ Callbacks and helper functions are stored as methods of the class
- ✓ App Designer generates the code for all the app components

