Book Cover Designer

- [Example application](#)
- Task description:
  - Menu bar and new project:
    - On the top of the window there is a menu bar with 2 options: 'File' and 'Settings'
    - Under 'File' there are 3 options, each accessible with a shortcut: 'New', 'Open' and 'Save'
    - Under 'Settings' there is a single option 'Language' which can be extended and one of two languages can be selected. After selecting an option the other one deselects
    - You can use the menu options by pressing the alt key and using letters corresponding to a given option
    - Choosing the 'New' option displays a dialog box which allows to enter dimensions of a new cover:
      - The dialogbox can not be resized
      - Content of the dialogbox is divided into 2 columns and 4 rows
      - Pressing the cancel button or closing the dialog box does not create a new project
      - Pressing the OK button creates a new project with no title or author and all additional texts are removed as well as the colors are set to default
  - Displaying title and author:
    - Title and author's name from the text boxes are displayed on the front cover (on the right) and on the book's spine using 'Arial' font
    - Front cover:
      - The default title's font size is 32pt
      - Title can take up to 1/3 of the cover's height and the whole width
      - Title's text is drawn with the left line alignement but the title should always be drawn on the center of the cover
      - Author's name is displayed below the title and can take up to a 1/6 of the cover's height
      - The default authors's font size is 24pt
      - Author's name should always be centered
      - If the title or author's name would take up more space than available, it should be drawn using the biggest possible size available (integers only)
    - Spine:
      - Title and author's name are also drawn on the spine, rotated 90 degrees
      - All sequences of whitespace characters from title are replaced with a single space
      - The available space on the spine is divided in half for the title and the author
      - Default font sizes are the same as for the book's cover and sizes adjust if not enough space is available
  - Changing cover and text colors:
    - There is a new section on the right that allows to change the color of the cover and all texts
    - There are 2 labels and 2 buttons
    - The labels and buttons are organized in a 2 by 2 table with border
    - Labels' font size is 11pt
    - Clicking one of the two buttons opens a color picker dialog and allows to change the color of the cover's background and the color of the text
  - Adding and editing texts:
    - Text box for adding text from lab part is removed
    - Pressing the 'Add text' button opens a new dialogbox for text editing:
      - The dialogbox can not be resized
      - There is a numeric input field that allows to change text font size
      - There are 3 radiobuttons that control text alignement
      - The rest of the dialogbox is filled with a multline text box with a vertical scroll bar
      - Changing line alignement changes the alignement of the text in the text box
      - There are 2 buttons on the bottom of the dialog for cancelling and accepting text addition or modification
    - As before, after confirming the text addition, cursor changes to cross while over the picture box and clicking anywhere on the drawing area adds new text
    - Double clicking on any previously added text opens up the dialog box with all fields filled appropriately. Changing and accepting the changes with 'OK' button modifies the text
    - After text editing, the text should stay centered around the same point as before
  - Selecting, moving and deleting additional texts:
    - Right clicking on any existing additional text selects it and a border is drawn around it
    - Only one text can be selected at a time
    - Color of the border is the inversed color of the cover's background color
    - Moving the mouse with the middle mouse button pressed moves selected text
    - Right clicking on any part of the drawing area not containing any text should deselect any already selected text
    - Pressing the delete key with a text selected removes that text
  - Localization:
    - The application should support two languages (English and any other).
    - The application's default language is English
    - Language can be changed using menu option (Settings->Language). Each text in the application should be changed to an equivalent in a different language.
      Note: this should be done using a localization mechanism - changing the Text / Title property will not be scored
    - After changing the localization all controls should be reloaded correctly
    - The main window should remain in the same position and be the same size
  - Saving and loading the project:
    - The project can be saved and loaded by choosing the 'Save' and 'Open' options from the menu
    - The format of the file containing the saved project is not specified by the task
    - Every information should be saved, including: title, author, additional texts (with font size and line alignement), background and text colors
    - To save or load a project an appropriate dialog box is opened
    - Save dialog should force default file extension (chosen appropriately)
    - Dialogbox should force user to load only files with the chosen extension
    - The app should notify the user if the loaded project file is incorrect
- *Note:all dialog boxes should start centered relative to the main window and should block all interactions with the main window*
- Tips:
  - MenuStrip, Form.ShowDialog, ColorDialog, NumericUpDown
  - Graphics.TranslateTransform, Graphics.RotateTransform
  - Control.MouseClick, Control.MouseDown, Control.MouseUp, Control.MouseMove
  - Form.Localizable, CultureInfo.CurrentUICulture
  - OpenFileDialog, SaveFileDialog
- *Note: In all doubtful and untold aspects application should behave like an example app.*

- Scoring:
  - Menu bar and creating new project: 1 point
  - Displaying title and author on the front cover: 1 point
  - Displaying title and author on the book's spine: 1 point
  - Changing cover and text color: 1 point
  - Dialog for adding text + text editing on double click: 2 points
  - Selecting, moving and deleting additional texts: 2 points
  - Localization: 2 points
  - Saving and loading the project: 2 points
  - *Note: It is not possible to obtain points for incomplete functionality.*