

Software Developer Coding Challenge

The Gauge



Why the Challenge?

- Our Software teams primary focus is the development of sophisticated custom Graphical User Interfaces (GUI). GUI programming is about presentation of data and handling complex interactions.
- On our team a developer is often given a custom GUI design based on user research and good interaction design principles. Usually the designs have been tested with users and vetted with a client before they are given to a software developer to create.
- Rendering a visual design includes complex layouts, styles, animations and transitions. In our experience, implementing layouts and styles can often be annoying but not that difficult. Expressing sophisticated animations and transitions, on the other hand, is hard.
- Our Goal is to find developers who have the ability to accurately reproduce the visual design as a interactive
 working piece of GUI software. Typically the designers will give our developers a design specification and it is
 up to us as developers to produce it with the same exact look as the design.
- In this challenge you will be given a design specification and you will be asked to reproduce it in one of two
 programming languages making it as near the design as possible.



The Coding Challenge?

The Challenge

- On the next page is a specification for a GUI widget. Try to create it as a software project with either Java (JavaFx) or C# (WPF). It must be a reusable widget that takes inputs (i.e. don't hard code everything).
- Feel free to take as long as you need.
- Just do what you can. If there are things you can't do, that is okay. This is just to gauge your experience level.
- There needs to be something; like a driver to make it run.
- Feel Free to use the internet (that is what we do here).
 - Tip: If you copy code form Stack Exchange just remember to copy it from the answer not the question. ⁽³⁾

What we provide:

- PNGs of some of the graphical components.
- The fonts if there are any that are required.

Questions:

If you need something clarified, don't hesitate to contact Patricia Bradford (pbradford@trideum.com) or Troy Moseley tmoseley@trideum.com) with your questions

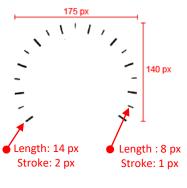


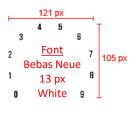
Gauge Specifications

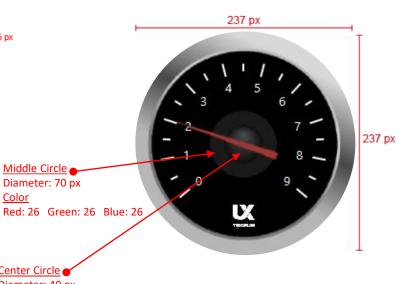


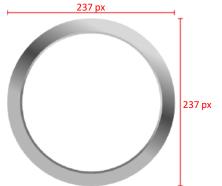














Center Circle

Diameter: 40 px

Middle Circle Diameter: 70 px

Gradient:

Color

Radial Gradient: focus-angle 270deg, focus-distance 55%, center 50% 50%, radius 50%, rgb(73,79,83), rgb(17,15,15) 99%, transparent

