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gpOwpobGpzLmluaXRIaWdobGlnaHRpbmdPbkxvYWQoKTsKCg=="></script>

<style type="text/css">code{white-space: pre;}</style>
<style type="text/css">

  pre:not([class]) {

    background-color: white;

  }

</style>
<script type="text/javascript">

if (window.hljs && document.readyState && document.readyState === "complete") {

  window.setTimeout(function() {

    hljs.initHighlighting();

  }, 0);

}

</script>

<style type="text/css">

h1 {

 font-size: 34px;

}

h1.title {

 font-size: 38px;

}

h2 {

 font-size: 30px;

}

h3 {

 font-size: 24px;

```css
  }
  h4 {
    font-size: 18px;
  }
  h5 {
    font-size: 16px;
  }
  h6 {
    font-size: 12px;
  }
  .table th:not([align]) {
    text-align: left;
  }
</style>


</head>

<body>

<style type="text/css">
.main-container {
  max-width: 940px;
  margin-left: auto;
  margin-right: auto;
}
code {
  color: inherit;
  background-color: rgba(0, 0, 0, 0.04);
}
img {
```

```
    max-width:100%;

    height: auto;

}

.tabbed-pane {

    padding-top: 12px;

}

button.code-folding-btn:focus {

    outline: none;

}

</style>
```

```html
<div class="container-fluid main-container">
```

```html
<!-- tabsets -->
<script>
$(document).ready(function () {

  window.buildTabsets("TOC");

});
</script>
```

```html
<!-- code folding -->
```

```html
<div class="fluid-row" id="header">
```

```html
<h1 class="title toc-ignore">Statistical Inference Project Part 1</h1>
<h4 class="author"><em>Michael Galarnyk</em></h4>
<h4 class="date"><em>May 27, 2017</em></h4>
```

```html
</div>
```

```html
<p>Github repo for the Course: <a
href="https://github.com/mGalarnyk/datasciencecoursera/tree/master/6_%20Statistical_Inference"
>Reproducible Research</a> </br> Github repo for Rest of Specialization: <a
href="https://github.com/mGalarnyk/datasciencecoursera">Data Science Coursera</a></p>
<div id="instructions" class="section level2">
<h2>Instructions</h2>
<ol style="list-style-type: decimal">
<li>Show the sample mean and compare it to the theoretical mean of the distribution.</li>
<li>Show how variable the sample is (via variance) and compare it to the theoretical variance of the
distribution.</li>
<li>Show that the distribution is approximately normal.</li>
</ol>
</div>
<div id="loading-libraries" class="section level2">
<h2>Loading Libraries</h2>
<pre class="r"><code>library(&quot;data.table&quot;)
library(&quot;ggplot2&quot;)</code></pre>
</div>
<div id="task" class="section level2">
<h2>Task</h2>
<pre class="r"><code># set seed for reproducability
set.seed(31)
```

```r
# set lambda to 0.2
lambda <- 0.2

# 40 samples
n <- 40

# 1000 simulations
simulations <- 1000

# simulate
simulated_exponentials <- replicate(simulations, rexp(n, lambda))

# calculate mean of exponentials
means_exponentials <- apply(simulated_exponentials, 2, mean)</code></pre>
</div>
<div id="question-1" class="section level2">
<h2>Question 1</h2>
<p>Show where the distribution is centered at and compare it to the theoretical center of the distribution.</p>
<pre class="r"><code>analytical_mean <- mean(means_exponentials)
analytical_mean</code></pre>
<pre><code>## [1] 4.993867</code></pre>
<pre class="r"><code># analytical mean
theory_mean <- 1/lambda
theory_mean</code></pre>
<pre><code>## [1] 5</code></pre>
<pre class="r"><code># visualization
hist(means_exponentials, xlab = "mean", main = "Exponential Function Simulations")
abline(v = analytical_mean, col = "red")
abline(v = theory_mean, col = "orange")</code></pre>
```

<p><img src="data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAABUAAAAPACAMAAAADDuCPrAAAAb1B
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<p>The analytics mean is 4.993867 the theoretical mean 5. The center of distribution of averages of 40 exponentials is very close to the theoretical center of the distribution.</p>

</div>

<div id="question-2" class="section level2">

</div>

<div id="question-2" class="section level2">

Question 2

Show how variable it is and compare it to the theoretical variance of the distribution..

```r
# standard deviation of distribution
standard_deviation_dist <- sd(means_exponentials)
standard_deviation_dist
```

```
## [1] 0.7931608
```

```r
# standard deviation from analytical expression
standard_deviation_theory <- (1/lambda)/sqrt(n)
standard_deviation_theory
```

```
## [1] 0.7905694
```

```r
# variance of distribution
variance_dist <- standard_deviation_dist^2
variance_dist
```

```
## [1] 0.6291041
```

```r
# variance from analytical expression
variance_theory <- ((1/lambda)*(1/sqrt(n)))^2
variance_theory
```

```
## [1] 0.625
```

Standard Deviation of the distribution is 0.7931608 with the theoretical SD calculated as 0.7905694. The Theoretical variance is calculated as $((1 / \lambda) * (1/\sqrt{n}))^2 = 0.625$. The actual variance of the distribution is 0.6291041

</div>
<div id="question-3" class="section level2">

Question 3

Show that the distribution is approximately normal.

```r
xfit <- seq(min(means_exponentials), max(means_exponentials), length=100)
yfit <- dnorm(xfit, mean=1/lambda, sd=(1/lambda/sqrt(n)))
hist(means_exponentials,breaks=n,prob=T,col="orange",xlab = "means",main="Density of means",ylab="density")
lines(xfit, yfit, pch=22, col="black", lty=5)
```

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qqnorm(means_exponentials)

qqline(means_exponentials, col = 2)</code></pre>

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<p>Due to Due to the central limit theorem (CLT), the distribution of averages of 40 exponentials is very close to a normal distribution.</p>

</div>

</div>

<script>

// add bootstrap table styles to pandoc tables

function bootstrapStylePandocTables() {

  $('tr.header').parent('thead').parent('table').addClass('table table-condensed');

}

$(document).ready(function () {

  bootstrapStylePandocTables();

});

</script>

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<!-- dynamically load mathjax for compatibility with self-contained -->
<script>
  (function () {
    var script = document.createElement("script");
    script.type = "text/javascript";
    script.src  = "https://cdn.mathjax.org/mathjax/latest/MathJax.js?config=TeX-AMS-MML_HTMLorMML";
    document.getElementsByTagName("head")[0].appendChild(script);
  })();
</script>


</body>
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