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Code		
	<i>Pre-Assessment</i>	
M	<ul style="list-style-type: none"> <li>Teacher checks for prerequisite and prior knowledge via warm-up and questioning activities, such as calculating means and standard deviations</li> </ul>	
M	<ul style="list-style-type: none"> <li>Students will review entering data in the graphing calculator and finding the mean and standard deviation</li> <li>Teacher will demonstrate how to find a range of usual values for normal data using the range rule of thumb formula and the empirical rule, as well as explaining the percentages associated with the ranges</li> <li>Students will use real life data sets to practice finding ranges of usual values and then deciding if a value is within the range of what is considered 'usual'</li> <li>Teacher will explain when data is not considered normal and then introduce Chebyshev's formula which is used to find the range of usual values for data that is not normal</li> <li>Students will complete practice problems involving data that is not normal</li> <li>Students will calculate the range of usual values for the data they gathered in unit 2 and then make determination about values in their lists that are not 'usual'</li> </ul>	Progress Monitoring
A		<ul style="list-style-type: none"> <li>Warm up questions</li> <li>Monitoring class work through board work, group work, questioning, and walk-arounds</li> <li>Check for understanding via going over homework and medium such as reflections and exit tickets</li> </ul>
A, M, T		<ul style="list-style-type: none"> <li>Class worksheets with direct teacher observation or self assessment</li> </ul>
A		<ul style="list-style-type: none"> <li>Practice on whiteboard/chalkboard with direct teacher observation</li> <li>Kahoot quiz or pear deck slideshow with review questions and direct teacher observation</li> </ul>
A, M, T		<ul style="list-style-type: none"> <li>Reflective journals or exit tickets at the end of the lesson</li> </ul>
A, M, T		<ul style="list-style-type: none"> <li>Eduastic or google form review assignments</li> <li>Homework assignments with direct teacher observation or self assessment</li> </ul>

		<ul style="list-style-type: none"> <li>• Projects/performance tasks modeling real world problems involving all aspects of a sampling , crossword puzzles and matching activities</li> <li>• Summative assessments <ul style="list-style-type: none"> <li>Quizzes</li> <li>Unit test</li> </ul> </li> </ul>
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Unit Title: Unit 5 – Applications of Percentiles

<p><u>CC.9-12.S.IC.1</u></p> <p>Understand statistics as a process for making inferences about population parameters based on a random sample from that population.</p> <p><u>CC.9-12.S.IC.3</u></p> <p>Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each.</p> <p><u>CCSS.MATH.CONTENT.HSS.ID.A.2</u></p> <p>Use statistics appropriate to the shape of the data distribution to compare center (median, mean)</p>	<b>Transfer</b>	
	<p><i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> <li>• <i>Make sense of a problem by initiating a plan and designing a method for data collection</i></li> <li>• <i>Make use of structure by organizing data into appropriate frequency tables</i></li> <li>• <i>Model with mathematics by calculating the percentiles/quartiles for a data set and/or determining the value at a specific percentile</i></li> <li>• <i>Justify reasoning or understanding by making interpretations of real life data based on the percentiles/quartiles and/or values at specific percentiles</i></li> </ul>	
	<b>Meaning</b>	
<p>UNDERSTANDINGS</p> <p><i>Students will understand that...</i></p> <ul style="list-style-type: none"> <li>• That a data set can be divided into percentiles/quartiles to more specifically interpret the data</li> <li>• The percentiles of a data set are used in the calculations of usual values and outliers.</li> </ul>	<p>ESSENTIAL QUESTIONS</p> <p><i>Students will keep considering...</i></p> <ul style="list-style-type: none"> <li>• How is a data set divided into percentiles?</li> <li>• How do the percentiles aid in the determination of outliers and usual values?</li> <li>• How do you determine the percentile of a specific value?</li> </ul>	

<p>and spread (interquartile range, standard deviation) of two or more different data sets.</p> <p><u>CCSS.MATH.CONTENT.HSS.ID.A.3</u></p>	<ul style="list-style-type: none"> <li>• Each percentile has a specific value associated with it</li> <li>• Each value in a data set has a percentile associated with it.</li> </ul>	<ul style="list-style-type: none"> <li>• How do you find the value at a specific percentile?</li> </ul>
<b>Acquisition</b>		
<p>Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).</p>	<p><i>Students will know...</i></p> <ul style="list-style-type: none"> <li>• The division of a data set into quartiles</li> <li>• The value at a given percentile</li> <li>• The percentile for a given value</li> </ul>	<p><i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> <li>• Calculating the 4 quartiles for a data set</li> <li>• Calculating which value lies at a specific percentile</li> <li>• Calculating the percentile for a specific value</li> </ul>

Code	Evaluative Criteria	Assessment Evidence
<p>A, M, T</p>	<p>Evaluative Criteria consists of:</p> <ul style="list-style-type: none"> <li>● An accurate display of data and how it was collected</li> <li>● The calculations that show the student the percentile for their score</li> <li>● The calculations that show the student the score that separates the top 10% of the population of students who took the test</li> </ul>	<p>PERFORMANCE TASK(S):</p> <p>Goal: To provide feedback to students about their scores on the SAT in comparison to all other students who took the test</p> <p>Role: Guidance counselor</p> <p>Audience: Students who took the SAT and looking to apply to college</p> <p>Product or Performance: Calculations that show the student the percentile their score falls into and what value separates the top 10% of students</p> <p>Standards &amp; Criteria for Success: Presentation contains:</p> <ul style="list-style-type: none"> <li>- Display of data</li> <li>- Calculations of the percentile for their score</li> <li>- calculations of the score that separates the top 10%</li> </ul>

<p>A, M</p>	<p>Evaluative Criteria consists of:</p> <ul style="list-style-type: none"> <li>● Was the percentile for a given value calculated correctly</li> </ul>	<p>OTHER EVIDENCE:</p> <ul style="list-style-type: none"> <li>● Alternative assessment projects such as calculations on real life data gathered by the students</li> <li>● Review of standardized test questions to prep students for the challenge of the SAT and ACT exams</li> <li>● Participation in class discussion, group work, and responses.</li> <li>● Quizzes</li> <li>● Unit Test - to include a variety of DOK level of problems and may include SAT style problems.</li> </ul>
<p>A, M</p>	<ul style="list-style-type: none"> <li>● Were the quartiles for a data set accurately identified</li> </ul>	
<p>A, M, T</p>	<ul style="list-style-type: none"> <li>● Was the value at a given percentile calculated correctly</li> <li>● Were appropriate conclusions drawn based on percentiles in real life data</li> </ul>	

Code		
<b>Code</b>	<b><i>Pre-Assessment</i></b>	
M	<ul style="list-style-type: none"> <li>Teacher checks for prerequisite and prior knowledge via warm-up and questioning activities, such as calculating percents and evaluating expressions</li> </ul>	
M A A, M, T A A, M, T A, M, T M, T	<ul style="list-style-type: none"> <li>Students will review calculating percents</li> <li>Teacher will explain how to calculate a percentile when using a data set and looking a specific data point</li> <li>Students will practice finding percentiles for values in real life data sets</li> <li>Teacher will explain how to find the value at a specific percentile</li> <li>Students will practice finding the values at a specific percentile for real life data sets</li> <li>Students will practice finding the values at the quartiles in preparation for the next unit</li> <li>Students will calculate percentiles and quartiles for their personal data gathered in unit 2</li> </ul>	<p>Progress Monitoring</p> <ul style="list-style-type: none"> <li>Warm up questions</li> <li>Monitoring class work through board work, group work, questioning, and walk-arounds</li> <li>Check for understanding via going over homework and medium such as reflections and exit tickets</li> <li>Class worksheets with direct teacher observation or self assessment</li> <li>Practice on whiteboard/chalkboard with direct teacher observation</li> <li>Kahoot quiz or pear deck slideshow with review questions and direct teacher observation</li> <li>Reflective journals or exit tickets at the end of the lesson</li> <li>Eduastic or google form review assignments</li> <li>Homework assignments with direct teacher observation or self-assessment</li> </ul>

		<ul style="list-style-type: none"> <li>• Projects/performance tasks modeling real world problems involving all aspects of a sampling , crossword puzzles and matching activities</li> <li>• Summative assessments <ul style="list-style-type: none"> <li>Quizzes</li> <li>Unit test</li> </ul> </li> </ul>
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Unit Title: Unit 6 - Outliers and boxplots

<p><u>CC.9-12.S.IC.1</u></p> <p>Understand statistics as a process for making inferences about population parameters based on a random sample from that population.</p> <p><u>CC.9-12.S.IC.3</u></p> <p>Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each.</p> <p><u>CCSS.MATH.CONTENT.HSS.ID.A.2</u></p> <p>Use statistics appropriate to the shape of the data distribution to</p>	<b>Transfer</b>	
	<p><i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> <li>• <i>Make sense of a problem by initiating a plan and designing a method for data collection</i></li> <li>• <i>Make use of structure by organizing data into appropriate frequency tables</i></li> <li>• <i>Justify reasoning or understanding by making interpretations of real life data based on the boxplot and outliers</i></li> </ul>	
	<b>Meaning</b>	
<p>UNDERSTANDINGS</p> <p><i>Students will understand that...</i></p> <ul style="list-style-type: none"> <li>• An outlier in a data set influences the measures of central tendencies</li> <li>• The 5 number summary can be used to make a box plot</li> <li>• A box plot is a graphic representation of the 4 quartiles of a data set</li> </ul>	<p>ESSENTIAL QUESTIONS</p> <p><i>Students will keep considering...</i></p> <ul style="list-style-type: none"> <li>• What is an outlier and how does it influence a data set?</li> <li>• Do all dispersions contain an outlier?</li> <li>• What is the 5 number summary and how can it be used to make a boxplot?</li> <li>• How is a boxplot used to represent data?</li> </ul>	



<p>compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets.</p> <p><u>CCSS.MATH.CONTENT.HSS.ID.A.3</u></p>	<ul style="list-style-type: none"> <li>An outlier is a value that is more than 1.5 IQR above the 3<sup>rd</sup> quartile or 1.5 IQR below the 1<sup>st</sup> quartile</li> </ul>	<ul style="list-style-type: none"> <li>How are quartiles used to calculate outliers?</li> </ul>
<b>Acquisition</b>		
<p>Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).</p>	<p><i>Students will know...</i></p> <ul style="list-style-type: none"> <li>The values that are used to determine if a given value is an outlier</li> <li>The 5 number summary</li> <li>Box plots constructed using the 5 number summary</li> <li>If a value is an outlier using the 1.5 IQR rule</li> </ul>	<p><i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> <li>Using the 1.5 IQR rule to identify possible outliers and identify outliers in boxplots</li> <li>Creating a 5-number summary of a variable</li> <li>Constructing a box plot by hand from a 5-number summary</li> <li>Determining outliers for a data set using the 5 number summary</li> </ul>

Code	Evaluative Criteria	Assessment Evidence
A, M, T	<p>Evaluative Criteria consists of:</p> <ul style="list-style-type: none"> <li>● An accurate display of data and how it was collected</li> <li>● A graph displaying the boxplot</li> <li>● An explanation of what the boxplot represents and which players are in need of improvement or who is already achieving success</li> </ul>	<p>PERFORMANCE TASK(S):</p> <p>Goal: To create a boxplot that will display the separation of the quartiles for data on the batting averages for a baseball team</p> <p>Role: Statistician for a baseball team</p> <p>Audience: Manager and batting coach for the team</p> <p>Product or Performance: An accurate box plot displaying the batting averages for the team to determine who needs extra batting practice or who needs to move down to a lower league or who is performing extremely well</p> <p>Standards &amp; Criteria for Success: Presentation contains:</p> <ul style="list-style-type: none"> <li>- Display of data</li> <li>- A boxplot</li> <li>- An explanation</li> </ul>

A, M	<p>Evaluative Criteria consists of:</p> <ul style="list-style-type: none"> <li>● Was the 5 number summary for a data set determined</li> </ul>	<p>OTHER EVIDENCE:</p> <ul style="list-style-type: none"> <li>● Alternative assessment projects such as partner review using real life data to find outliers and graphing the data or practice using data gathered by the students</li> </ul>
A, M	<ul style="list-style-type: none"> <li>● Was an accurate boxplot created using the 5 number summary</li> </ul>	<ul style="list-style-type: none"> <li>● Review of standardized test questions to prep students for the challenge of the SAT and ACT exams</li> </ul>
A, M, T	<ul style="list-style-type: none"> <li>● Were outliers identified that exist for a data set and was there an explanation of how they affect the data</li> </ul>	<ul style="list-style-type: none"> <li>● Participation in class discussion, group work, and responses.</li> </ul>
A, M	<ul style="list-style-type: none"> <li>● Were the quartiles in the box plot used to correctly calculate the outliers for each data set</li> </ul>	<ul style="list-style-type: none"> <li>● Quizzes</li> </ul>
A, M, T	<ul style="list-style-type: none"> <li>● Were appropriate conclusions drawn on real life data based on the box plot and outliers</li> </ul>	<ul style="list-style-type: none"> <li>● Unit Test - to includes a variety of DOK level of problems and may include SAT style problems.</li> </ul>

<b>Code</b>	<i>Pre-Assessment</i>
M	<ul style="list-style-type: none"> <li>● Teacher checks for prerequisite and prior knowledge via warm-up and questioning activities, such as calculating percents and finding quartiles</li> </ul>

<p>M</p> <p>A</p> <p>A</p> <p>A, M, T</p> <p>A</p> <p>A, M, T</p> <p>M, T</p>	<ul style="list-style-type: none"> <li>● Students will review calculating percents and quartiles and accessing data in the graphing calculator</li> <li>● Teacher will explain what the 5 number summary is and where to find it in the calculations in the calculator.</li> <li>● Teacher will introduce the steps to creating a boxplot using the 5 number summary and explain what the box plot displays</li> <li>● Students will use real life data to create boxplots from the 5 number summaries for the data sets</li> <li>● Teacher will demonstrate how to use the values in the box plot to calculate the minimum and maximum values that constitute a value being an outlier using the 1.5 IQR rule</li> <li>● Students will practice finding outliers from boxplots</li> <li>● Students will use their personal data from unit 2 to create a box plot and then determine if there are any outliers in their data set</li> </ul>	<p>Progress Monitoring</p> <ul style="list-style-type: none"> <li>● Warm up questions</li> <li>● Monitoring class work through board work, group work, questioning, and walk-arounds</li> <li>● Check for understanding via going over homework and medium such as reflections and exit tickets</li> <li>● Class worksheets with direct teacher observation or self assessment</li> <li>● Practice on whiteboard/chalkboard with direct teacher observation</li> <li>● Kahoot quiz or pear deck slideshow with review questions and direct teacher observation</li> <li>● Reflective journals or exit tickets at the end of the lesson</li> <li>● Edulastic or google form review assignments</li> <li>● Homework assignments with direct teacher observation or self assessment</li> <li>● Projects/performance tasks modeling real world problems involving all aspects of a sampling , crossword puzzles and matching activities</li> <li>● Summative assessments Quizzes and Unit Test</li> </ul>
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<p>CCSS.MATH.CONTENT.HSS.ID.A.4</p> <p>Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.</p>	<b>Transfer</b>	
	<p><i>Students will be able to independently use their learning to...</i></p> <ul style="list-style-type: none"> <li>● <i>Make sense of a problem by initiating a plan and designing a method for data collection</i></li> <li>● <i>Make use of structure by organizing data into appropriate frequency tables</i></li> <li>● <i>Justify reasoning or understanding by making interpretations of real life data based on the probabilities that are calculated</i></li> </ul>	
	<b>Meaning</b>	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <p><b>UNDERSTANDINGS</b> <i>Students will understand that...</i></p> <ul style="list-style-type: none"> <li>● The normal distribution curve is a family of symmetrical curves defined by the mean and the standard deviation.</li> <li>● Areas under the curve represent probabilities associated with continuous distributions.</li> <li>● The normal curve is a probability distribution and the total area under the curve is 1.</li> <li>● The distribution of outcomes of many real life events can be approximated by the normal curve</li> </ul> </td> <td style="width: 50%; padding: 5px;"> <p><b>ESSENTIAL QUESTIONS</b> <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> <li>● What is a normal curve?</li> <li>● How is the probability of an event calculated?</li> <li>● What are the properties of a normal probability distribution?</li> <li>● How does the standard deviation and mean affect the graph of the normal distribution?</li> <li>● Why is an understanding of the normal curve essential to statistics?</li> <li>● In what real life situations can the normal curve be applied to data?</li> <li>● How can one recognize a normal (bell shape) distribution?</li> </ul> </td> </tr> </table>	<p><b>UNDERSTANDINGS</b> <i>Students will understand that...</i></p> <ul style="list-style-type: none"> <li>● The normal distribution curve is a family of symmetrical curves defined by the mean and the standard deviation.</li> <li>● Areas under the curve represent probabilities associated with continuous distributions.</li> <li>● The normal curve is a probability distribution and the total area under the curve is 1.</li> <li>● The distribution of outcomes of many real life events can be approximated by the normal curve</li> </ul>
<p><b>UNDERSTANDINGS</b> <i>Students will understand that...</i></p> <ul style="list-style-type: none"> <li>● The normal distribution curve is a family of symmetrical curves defined by the mean and the standard deviation.</li> <li>● Areas under the curve represent probabilities associated with continuous distributions.</li> <li>● The normal curve is a probability distribution and the total area under the curve is 1.</li> <li>● The distribution of outcomes of many real life events can be approximated by the normal curve</li> </ul>	<p><b>ESSENTIAL QUESTIONS</b> <i>Students will keep considering...</i></p> <ul style="list-style-type: none"> <li>● What is a normal curve?</li> <li>● How is the probability of an event calculated?</li> <li>● What are the properties of a normal probability distribution?</li> <li>● How does the standard deviation and mean affect the graph of the normal distribution?</li> <li>● Why is an understanding of the normal curve essential to statistics?</li> <li>● In what real life situations can the normal curve be applied to data?</li> <li>● How can one recognize a normal (bell shape) distribution?</li> </ul>	

	<ul style="list-style-type: none"> <li>• The z-score formula can be used to calculate the probability of an event occurring</li> <li>• The graphing calculator can be a valuable tool in finding normal probabilities</li> </ul>	<ul style="list-style-type: none"> <li>• How can the z-score formula be used to calculate the probability of an event occurring?</li> <li>• How can the graphing calculator assist in finding normal probabilities?</li> </ul>
<b>Acquisition</b>		
	<p><i>Students will know...</i></p> <ul style="list-style-type: none"> <li>• Z-score calculations</li> <li>• The total area under a normal curve is 1</li> <li>• A portion of the area under a normal curve represents the probability for a specific observation</li> <li>• The z-score formula can be used to find the probability for a specific observation</li> <li>• Normal probabilities have a variety of real world applications</li> <li>• That the graphing calculator can be used to calculate probabilities more efficiently</li> </ul>	<p><i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> <li>• Calculating a z –score</li> <li>• Using the z-score formula to find a normal probability for a specific observation</li> <li>• Calculating real life probabilities using the z-score and normal curve</li> <li>• Using graphing calculators as a method for calculating normal probabilities more efficiently</li> </ul>

STAGE 2

Code	Evaluative Criteria	Assessment Evidence
A, M, T	<p>Evaluative Criteria consists of:</p> <ul style="list-style-type: none"> <li>● An accurate display of data and how it was collected</li> <li>● The calculations and explanation of how data determines the probability of catching a large fish</li> </ul>	<p>PERFORMANCE TASK(S):</p> <p>Goal: To determine the probability of catching an oversized tuna on a fishing expedition</p> <p>Role: Marine biologist</p> <p>Audience: Charter boat captain and tourists</p> <p>Product or Performance: Data that explains the probability of catching a 'whopper' on a fishing trip</p> <p>Standards &amp; Criteria for Success: Presentation contains:</p> <ul style="list-style-type: none"> <li>- Display of data</li> <li>- Calculations and explanation</li> </ul>

A, M	Evaluative Criteria consists of:	OTHER EVIDENCE:
A, M	<ul style="list-style-type: none"> <li>● Were the basic characteristics of the normal curve identified</li> </ul>	<ul style="list-style-type: none"> <li>● Alternative assessment projects such as partner reviews involving real life data</li> </ul>
A, M, T	<ul style="list-style-type: none"> <li>● Was the Z-score calculated correctly for a data set</li> </ul>	<ul style="list-style-type: none"> <li>● Review of standardized test questions to prep students for the challenge of the SAT and ACT exams</li> </ul>
	<ul style="list-style-type: none"> <li>● Were probabilities accurately calculated using the z-score chart</li> </ul>	<ul style="list-style-type: none"> <li>● Participation in class discussion, group work, and responses.</li> </ul>
A, M, T	<ul style="list-style-type: none"> <li>● Was the graphing calculator used to calculate probabilities</li> <li>● Were appropriate conclusions drawn based on the probabilities using real life data</li> </ul>	<ul style="list-style-type: none"> <li>● Quizzes</li> <li>● Unit Test - to include a variety of DOK level of problems and may include SAT style problems.</li> </ul>



Pre-Assessment		
Code	<i>Pre-Assessment</i>	
M	<ul style="list-style-type: none"> <li>Teacher checks for prerequisite and prior knowledge via warm-up and questioning activities, such as evaluating and solving simple equations and finding the mean and standard deviation</li> </ul>	
A	<ul style="list-style-type: none"> <li>Teacher will introduce the z-score formula and demonstrate how it can be used to determine 'usual' values for a data set</li> <li>Students will practice finding the mean and standard deviation for a data set and then using them to calculate a z-score</li> <li>Teacher will introduce the z-score table and explain how to use it to determine the probability of an event occurring</li> <li>Students will practice find probabilities of real life events occurring</li> <li>Teacher will demonstrate how to use the graphing calculator to find these same probabilities</li> <li>Students will practice finding the probabilities using the graphing calculator</li> <li>Teacher will explain how to find the value associated with a specific probability or percentile using the z-score chart and the graphing calculator</li> <li>Students will explore find probabilities of real life events occurring using their data sets from unit</li> </ul>	Progress Monitoring
A, M, T		<ul style="list-style-type: none"> <li>Warm up questions</li> <li>Monitoring class work through board work, group work, questioning, and walk-arounds</li> <li>Check for understanding via going over homework and medium such as reflections and exit tickets</li> </ul>
A		<ul style="list-style-type: none"> <li>Class worksheets with direct teacher observation or self-assessment</li> </ul>
A, M, T		<ul style="list-style-type: none"> <li>Practice on whiteboard/chalkboard with direct teacher observation</li> </ul>
A		<ul style="list-style-type: none"> <li>Kahoot quiz or pear deck slideshow with review questions and direct teacher observation</li> </ul>
A, M, T		<ul style="list-style-type: none"> <li>Reflective journals or exit tickets at the end of the lesson</li> </ul>
A		<ul style="list-style-type: none"> <li>Edulastic or google form review assignments</li> </ul>
M, T		<ul style="list-style-type: none"> <li>Homework assignments with direct teacher observation or self-assessment</li> <li>Projects/performance tasks modeling real</li> </ul>

		<p>world problems involving all aspects of a sampling , crossword puzzles and matching activities</p> <ul style="list-style-type: none"><li>● Summative assessments<ul style="list-style-type: none"><li>Quizzes</li><li>Unit test</li></ul></li></ul>
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