Chapter 5 – Type Narrowing

1. Introduction
   1. Type narrowing is when TypeScript can infer more specific types based on the variable’s surrounding code.

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| function formatDate(date: string | number) {  // date can be a number or string here    if (typeof date === 'string') {  // date must be a string here  }  } |

1. Type Guards
   1. One way that TypeScript can narrow a type is with a conditional statement that checks if a variable is a specific type.
   2. TypeScript can recognize typeof type guards that check for these specific values: 'string', 'number', 'boolean', and 'symbol'.

Exercise

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| function formatStatistic(stat: string | number) {  if (typeof stat == 'number') {  return stat.toFixed(2);  } else if (typeof stat == 'string') {  return stat.toUpperCase();  }  }  console.log(formatStatistic('Win'));  console.log(formatStatistic(0.364)); |

1. Using in with Type Guards
   1. sometimes we want to see if a specific method exists on a type instead of a type like 'string'