Sample Course Name

Week-10 (Sample Course Module Name)

Spring Semester, 20XX-20XX

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Outline

- Sample Outline
- Sample Outline
- Sample Outline
- Sample Outline

Sample Topic

Sample Topic

- **What is Lorem Ipsum?**

  Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s,
  - when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries,
    - but also the leap into electronic typesetting, remaining essentially unchanged.
      - It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Sample Images-1

- **What is Lorem Ipsum?**
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Sample Images-2

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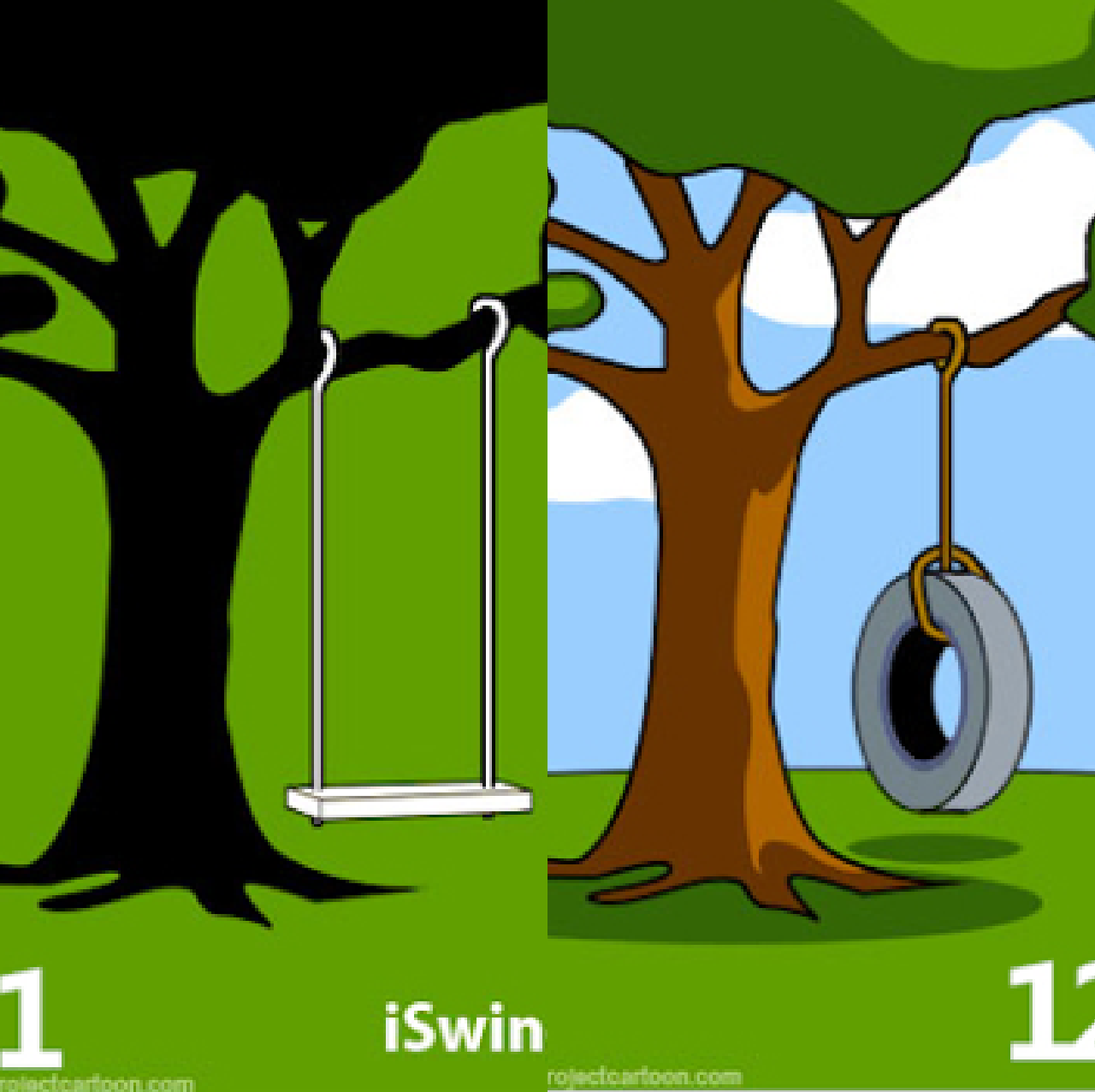
Sample Images-3

- **What is Lorem Ipsum?**
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Sample Images-4

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needed

Sample Images-5

- **What is Lorem Ipsum?**
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s,

What marketing advertised

What the customer really needed

Sample Images-6

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Latex Sample-1

$$\underbrace{\{m[1,2], m[2,3], \ldots, m[n-1, n]\}}_{(n-1) \text{ values}} \overset{\text{compute } m[i, i+1]}{} \left\{ \begin{array}{l} \ell = 2 \\ \text{for } i = 1 \text{ to } n - 1 \text{ do} \\ \quad m[i, i+1] = \infty \qquad (1) \\ \quad\quad \text{for } k = i \text{ to } i \text{ do} \\ \qquad\qquad \vdots \end{array} \right.$$

$$\underbrace{\{m[1,3], m[2,4], \ldots, m[n-2, n]\}}_{(n-2) \text{ values}} \overset{\text{compute } m[i, i+2]}{} \left\{ \begin{array}{l} \ell = 3 \\ \text{for } i = 1 \text{ to } n - 2 \text{ do} \\ \quad m[i, i+2] = \infty \qquad (1) \\ \quad\quad \text{for } k = i \text{ to } i + 1 \text{ do} \\ \qquad\qquad \vdots \end{array} \right.$$

$$\underbrace{\{m[1,4], m[2,5], \ldots, m[n-3, n]\}}_{(n-3) \text{ values}} \overset{\text{compute } m[i, i+3]}{} \left\{ \begin{array}{l} \ell = 4 \\ \text{for } i = 1 \text{ to } n - 3 \text{ do} \\ \quad m[i, i+3] = \infty \qquad (1) \\ \quad\quad \text{for } k = i \text{ to } i + 2 \text{ do} \\ \qquad\qquad \vdots \end{array} \right.$$

Latex Sample-2

OPTIMAL-BST-COST(p, n)

 for $i \leftarrow 1$ to n do

  $c[i, i-1] \leftarrow 0$

  $c[i, i] \leftarrow p[i]$

  $R[i, j] \leftarrow i$

 $PS[1] \leftarrow p[1] \Longleftarrow PS[i] \rightarrow$ prefix-sum (i) : Sum of all $p[j]$ values for $j \leq i$

 for $i \leftarrow 2$ to n do

  $PS[i] \leftarrow p[i] + PS[i-1] \Longleftarrow$ compute the prefix sum

 for $d \leftarrow 1$ to $n-1$ do $\Longleftarrow$ BSTs with $d+1$ consecutive keys

  for $i \leftarrow 1$ to $n\text{–}d$ do

   $j \leftarrow i + d$

   $c[i, j] \leftarrow \infty$

   for $r \leftarrow i$ to j do

    $q \leftarrow min\{c[i, r-1] + c[r+1, j]\} + PS[j]\text{–}PS[i-1]\}$

    if $q < c[i, j]$ then

     $c[i, j] \leftarrow q$

     $R[i, j] \leftarrow r$

 return $c[1, n], R$

TODO UPDATE CONTENT FOR YOUR COURSE NOTES

References

- https://avesis.erdogan.edu.tr/ugur.coruh
- https://www.linkedin.com/in/ugurcoruh/
- https://www.hindawi.com/journals/scn/2018/6563089/
- https://dl.acm.org/doi/abs/10.1145/3410352.3410836
- https://www.sciencedirect.com/science/article/abs/pii/S2214212621002623

$$End - Of - Week - 10 - Module$$