

Sample Course Name

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Week-4 (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

- **What is Lorem Ipsum?**
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Sample Images-3

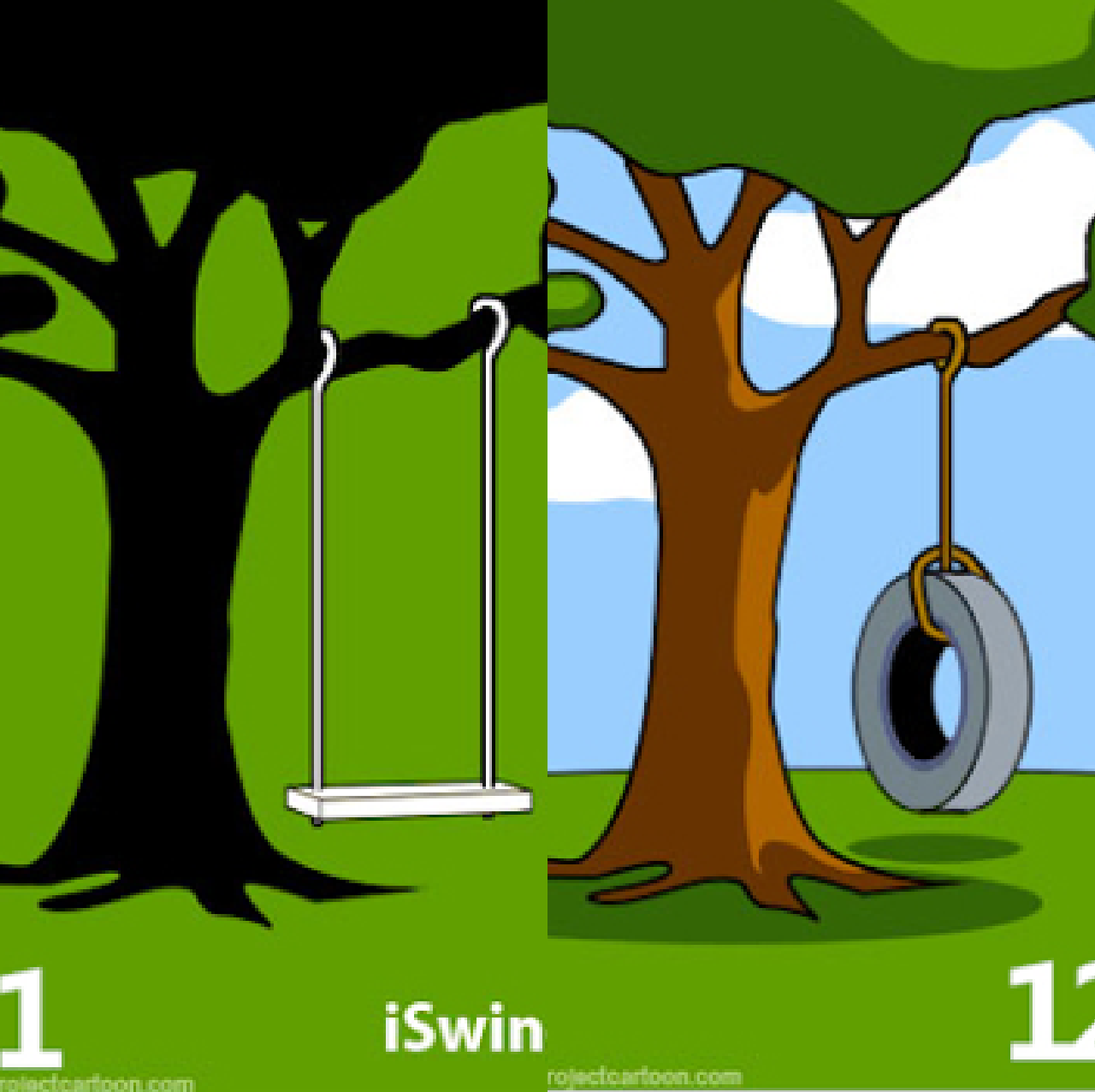
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Sample Images-4

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Sample Images-5

- **What is Lorem Ipsum?**
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What marketing advertisements that the customer really needed



Sample Images-6

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Latex Sample-1

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

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

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

Latex Sample-2

OPTIMAL-BST-COST(p, n)

for $i \leftarrow 1$ to n do

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

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

$R[i, j] \leftarrow i$

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

for $i \leftarrow 2$ to n do

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

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

for $i \leftarrow 1$ to $n - d$ do

$j \leftarrow i + d$

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

for $r \leftarrow i$ to j do

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

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 – 4 – Module