Design is…

Design is…

Design is all around us.

Design is…

Design is all around us.

the clothes you wear,

Design is…

Design is all around us.

the clothes you wear,
the pen you write with,

Design is…

Design is all around us.

the clothes you wear,
the pen you write with,
the car or train you rode to work,

Design is…

Design is all around us.

the clothes you wear,
the pen you write with,
the car or train you rode to work,
the building you work in,

Design is…

Design is all around us.

the clothes you wear,
the pen you write with,
the car or train you rode to work,
the building you work in,
the chair you sit in,

Design is…

Design is all around us.

the clothes you wear,
the pen you write with,
the car or train you rode to work,
the building you work in,
the chair you sit in,
the software you use,
.

Design is…

Design is all around us.

the clothes you wear,
the pen you write with,
the car or train you rode to work,
the building you work in,
the chair you sit in,
the software you use,
and the cell phone you carry

Design is…

Design is all around us.

the clothes you wear,
the pen you write with,
the car or train you rode to work,
the building you work in,
the chair you sit in,
the software you use,
and the cell phone you carry

all reflect the thinking of designers.

Design is…

People design websites, governance systems, buildings, and more.

Design is…

People design websites, governance systems, buildings, and more.

Almost any endeavor will benefit from the methodical application of design thinking.

Design is…

Design is a step-by-step process

Design is…

Design is a step-by-step process

that balances creative & critical thinking

Design is…

Design is a step-by-step process

that balances creative & critical thinking

to produce a practical plan

Design is…

Design is a step-by-step process

that balances creative & critical thinking

to produce a practical plan

for achieving a stated goal.

Design is…

Design is a tool for connecting disparate elements

Design is…

Design is a tool for connecting disparate elements

to produce a system,

Design is…

Design is a tool for connecting disparate elements to produce a system,

achieve unity,

Design is…

Design is a tool for connecting disparate elements
to produce a system,
achieve unity,
and create symbiosis and synergy.

Design is…

Design can be applied to produce:

Design is…

Design can be applied to produce:

an object (a toaster)

Design is…

Design can be applied to produce:

- *an object (a toaster)*
- *a process (an experiment)*

Design is…

Design can be applied to produce:

- *an object (a toaster)*
- *a process (an experiment)*
- *or an organization (a business)*

Design is…

Design can be applied to produce:

- *an object (a toaster)*
- *a process (an experiment)*
- *or an organization (a business)*

As a process, design can be informed by, or contribute to, any discipline.

Design is…

Design is a broadly applicable problem-solving method that mirrors and complements the scientific method.

Design is…

Design is a way to connect theory to practice.

Design Is…

Effective designs:

Design Is…

Effective designs

are clear about their purpose and goals

Design Is…

Effective designs

- *are clear about their purpose and goals*
- *make efficient use of resources*

Design Is…

Effective designs:

- *are clear about their purpose and goals*
- *make efficient use of resources*
- *recognize applicable boundaries*

Design Is…

Effective designs:

- *are clear about their purpose and goals*
- *make efficient use of resources*
- *recognize applicable boundaries*
- *include relevant information*

Design Is…

Effective designs:

- *are clear about their purpose and goals*
- *make efficient use of resources*
- *recognize applicable boundaries*
- *include relevant information*
- *and are realistic and doable.*

Designers Are…

Effective designers move easily between creative and critical thinking modes

Designers Are…

Effective designers move easily between creative and critical thinking modes

and are highly attuned to culture, context, and audience.

Designers Are…

Desirable designer attributes include:

Designers Are…

Desirable designer attributes include:

- *curiosity*

Designers Are…

Desirable designer attributes include:

- *curiosity*
- *persistence*

Designers Are…

Desirable designer attributes include:

- *curiosity*
- *persistence*
- *resilience*

Designers Are…

Desirable designer attributes include:

- *curiosity*
- *persistence*
- *resilience*
- *humility*

Designers Are…

Desirable designer attributes include:

- *curiosity*
- *persistence*
- *resilience*
- *humility*
- *and chutzpah*

Designers Are…

Desirable designer attributes include:

- *curiosity*
- *persistence*
- *resilience*
- *humility*
- *and* ***chutzpah***

Good communication skills are essential.

Design Vocabulary…

Design Vocabulary…

***Vision**: The stated goal relative to the problem needing to be solved.*

Design Vocabulary…

***Concept**: An idea for how to solve the problem*

Design Vocabulary…

***Concept**: An idea for how to solve the problem*

For any given design problem, many concepts may be presented

Design Vocabulary…

***Format**: The boundaries and conditions that enclose the problem and the vision.*

Design Vocabulary…

***Elements**: The parts selected to be placed in relationship through the design process.*

Design Vocabulary…

***Principles**: the rules or guidelines for arranging the elements. Principles vary depending on the design framework they operate through*

Design Vocabulary…

***System**: Elements placed in relationship in accordance with principles can create a system*

System Examples…

System Examples…

In art,

System Examples…

In art, one might arrange elements called shapes, lines and colors;

System Examples…

In art, one might arrange elements called shapes, lines and colors; according to principles of visual design;

System Examples…

In art, one might arrange elements called shapes, lines and colors; according to principles of visual design; in order to communicate a thought

System Examples…

In art, one might arrange elements called shapes, lines and colors; according to principles of visual design; in order to communicate a thought ***through a painting.***

System Examples…

In dance,

System Examples…

In dance, one might arrange elements called movement, time, and space;

System Examples…

In dance, one might arrange elements called movement, time, and space; according to principles of choreography;

System Examples…

In dance, one might arrange elements called movement, time, and space; according to principles of choreography; in order to communicate a feeling

System Examples…

In dance, one might arrange elements called movement, time, and space; according to principles of choreography; in order to communicate a feeling through a performance.

System Examples…

In chemistry,

System Examples…

In chemistry, one might arrange elements called heat, chemicals, time, and sequence;

System Examples…

In chemistry, one might arrange elements called heat, chemicals, time, and sequence; according to the principles of science;

System Examples…

In chemistry, one might arrange elements called heat, chemicals, time, and sequence; according to the principles of science; in order to gain understanding

System Examples…

In chemistry, one might arrange elements called heat, chemicals, time, and sequence; according to the principles of science; in order to gain understanding through an experiment.

System Examples…

In society,

System Examples…

In society, one might arrange elements called resources, consumers, producers, and banks;

System Examples…

In society, one might arrange elements called resources, consumers, producers, and banks; according to principles of capitalism;

System Examples…

In society, one might arrange elements called resources, consumers, producers, and banks; according to principles of capitalism; in order to distribute goods

System Examples…

In society, one might arrange elements called resources, consumers, producers, and banks; according to principles of capitalism; in order to distribute goods through an economy.

System Examples…

In a university,

System Examples…

In a university, one might arrange elements called teachers, students, administration, and facilities;

System Examples…

In a university, one might arrange elements called teachers, students, administration, and facilities; according to principles of liberal arts;

System Examples…

In a university, one might arrange elements called teachers, students, administration, and facilities; according to principles of liberal arts; in order to produce learning

System Examples…

In a university, one might arrange elements called teachers, students, administration, and facilities; according to principles of liberal arts; in order to produce learning *though education.*