

# THE RESERVE OF THE RE

# **HTML Frames**

# **Agenda**

- Advantages and disadvantages of frames
- FRAME template
- Defining rows and cols in a FRAMESET
- Common FRAME and FRAMESET attributes
- Nested frames
- Targeting a document to a named FRAME cell

# Frame Advantages

- Certain parts of the interface (e.g., a TOC) are always on the screen
- Can avoid retyping common sections of multiple Web pages
- Consistent use across a large site sometimes simplifies user navigation
- A convenient way to mix text-oriented HTML with Java applets
- Image maps are more convenient if the map image remains on screen and only the results section changes

# Frame Disadvantages

- The meaning of the "Back" and "Forward" buttons can be confusing
- Poorly designed frames can get the user lost
- Hard to find real URL of a page you want
  - Printing problems!
- Hard to bookmark "configuration"
- Some very old browsers do not support frames
- Security
  - Hackers can insert frame cells into your pages in some circumstances, perhaps stealing information intended for your site

# **Frame Template**

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Frameset//EN">
<HTML>
<HEAD><TITLE>Document Title</TITLE></HEAD>
<PRAMESET ...>
 <!-- FRAME and Nested FRAMESET Entries -->
 <NOFRAMES>
    <BODY>
      <!-- Stuff for non-Frames browsers -->
   </BODY>
 </NOFRAMES>
</FRAMESET>
</HTML>
```

#### **FRAMESET Attributes**

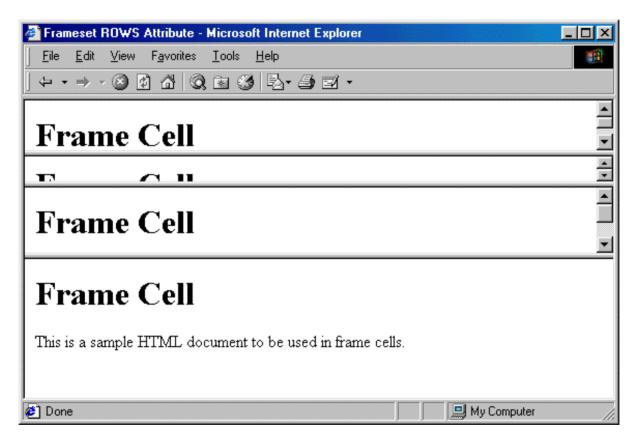
#### COLS, ROWS

- A comma-separated list of pixel values, percentages, and weighted remainders
- FRAMESET entries should *always* specify at least two rows or columns. Netscape problems if not!
- Examples

```
<FRAMESET ROWS="50,10%,*,2*">
    ...
</FRAMESET>
```

```
<FRAMESET COLS="25%,*,*">
    ...
</FRAMESET>
```

# FRAMESET ROWS, Example



<FRAMESET ROWS="50,10%,\*,2\*">
 ...
</FRAMESET>

# FRAMESET Attributes (Continued)

#### FRAMEBORDER

- Indicates whether borders will be drawn between frame cells
- YES or 1 specifies borders; NO or 0 specifies no border
- Can be overridden by FRAMEBORDER settings in individual FRAME entries
- Often used in conjunction with BORDER=0 and FRAMESPACING=0

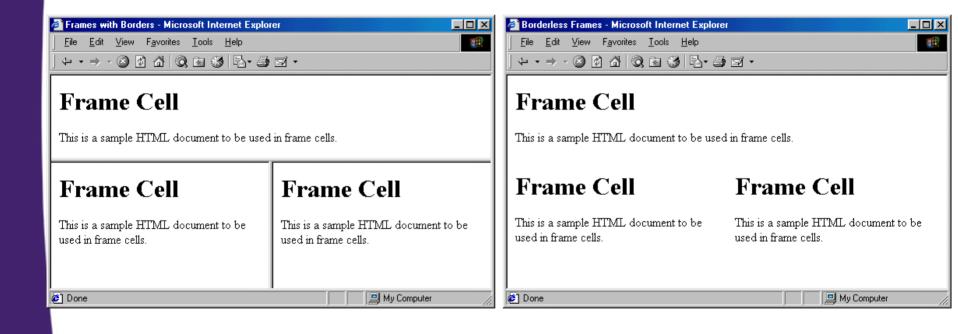
#### BORDER (Netscape), FRAMESPACING (IE)

- Specify the thickness of the border between cells
- Apply to outermost FRAMESET only

#### BORDERCOLOR

 Sets the color of the border between cell, using either a hex RGB value or color name

# Frame Border, Examples



# FRAME: Specifying Content of Frame Cells

#### SRC

URL of the document to place in the frame cell

#### NAME

Supplies destination for TARGET attribute of hypertext links

#### FRAMEBORDER, BORDERCOLOR

#### MARGINWIDTH, MARGINHEIGHT

 Specifies the left/right and top/bottom cell margins, respectively

#### SCROLLING

Indicates whether cells should have scrollbars

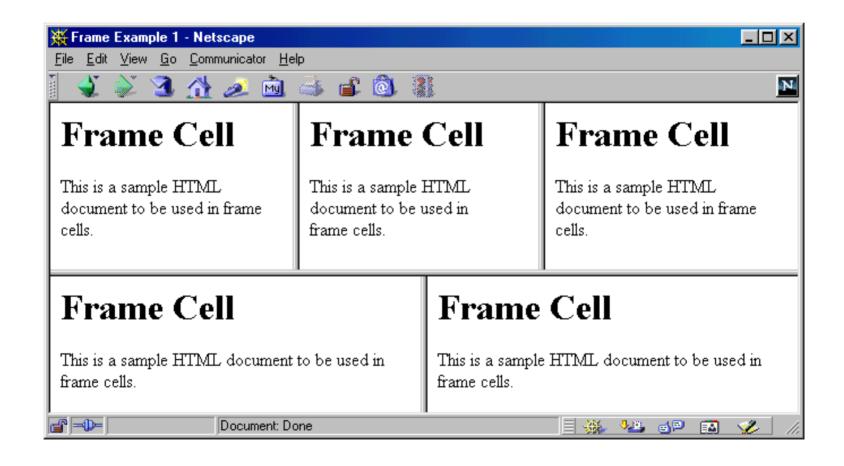
#### NORESIZE

Disables the ability to resize the frame cells

# Frame Example 1

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Frameset//EN">
<HTML>
<HEAD><TITLE>Frame Example 1</TITLE></HEAD>
<FRAMESET ROWS="55%,45%">
 <FRAMESET COLS="*, *, *">
   <FRAME SRC="Frame-Cell.html">
   <FRAME SRC="Frame-Cell.html">
    <FRAME SRC="Frame-Cell.html">
 </FRAMESET>
 <FRAMESET COLS="*,*">
   <FRAME SRC="Frame-Cell.html">
   <FRAME SRC="Frame-Cell.html">
 </FRAMESET>
 <NOFRAMES>
   <BODY>
      Your browser does not support frames. Please see
      <A HREF="Frame-Cell.html">non-frames version</A>.
   </BODY>
 </NOFRAMES>
  FRAMESET>
 /HTML>
```

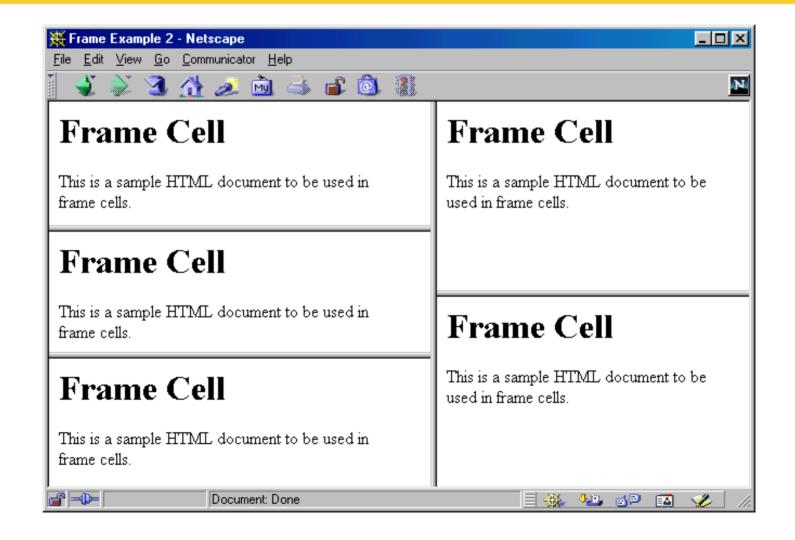
# Frame Example 1, Result



# Frame Example 2

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Frameset//EN">
<HTML>
<HEAD><TITLE>Frame Example 2</TITLE></HEAD>
<FRAMESET COLS="55%,45%">
  <FRAMESET ROWS="*, *, *">
    <FRAME SRC="Frame-Cell.html">
    <FRAME SRC="Frame-Cell.html">
    <FRAME SRC="Frame-Cell.html">
  </FRAMESET>
  <FRAMESET ROWS="*, *">
    <FRAME SRC="Frame-Cell.html">
    <FRAME SRC="Frame-Cell.html">
  </FRAMESET>
  <NOFRAMES>
    <BODY>
      Your browser does not support frames. Please see
      <A HREF="Frame-Cell.html">nonframes version</A>.
    </BODY>
  </NOFRAMES>
  FRAMESET>
 /HTML>
```

# Frame Example 2, Result



# **Targeting Frame Cells**

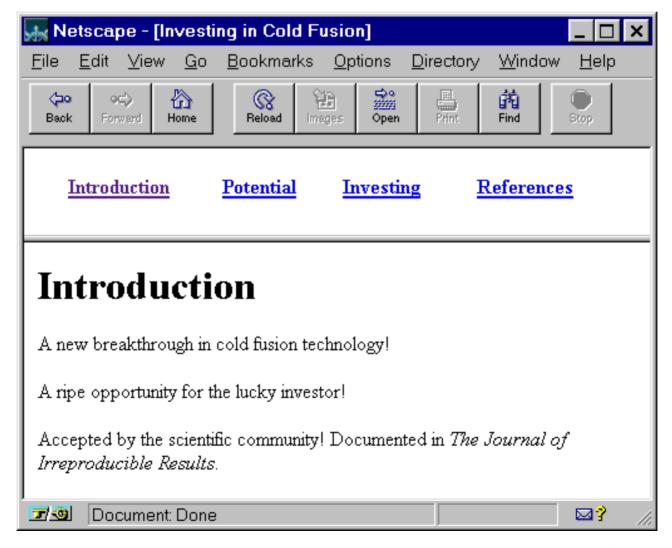
- Specify the cell in which to place a page referenced by a hyperlink
- The NAME Attribute of FRAME

```
<FRAME SRC="..." NAME="cellName">
```

The TARGET Attribute of A HREF

```
<A HREF="..." TARGET="cellName">
```

# **Targeting Example**



#### **Cold-Fusion.html**

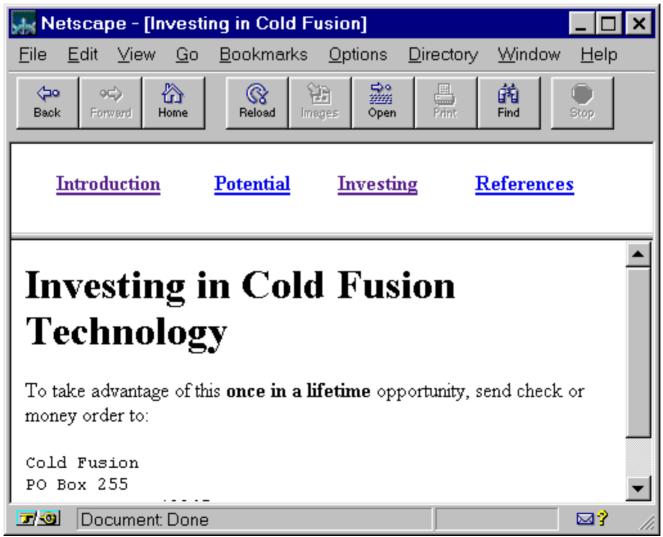
```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Frameset//EN">
<HTML>
<HEAD>
  <TITLE>Investing in Cold Fusion</TITLE>
</HEAD>
<FRAMESET ROWS="75,*">
  <FRAME SRC="TOC.html" NAME="TOC">
  <FRAME SRC="Introduction.html" NAME="Main">
  <NOFRAMES>
    <BODY>
      This page requires Frames. For a non-Frames version,
      <A HREF="Introduction.html">the introduction</A>.
    </BODY>
  </NOFRAMES>
</FRAMESET>
</HTML>
```

#### TOC.html

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML>
<HEAD>
  <TITLE>Table of Contents</TITLE>
</HEAD>
<BODY>
<TABLE WIDTH="100%">
  <TR><TH><A HREF="Introduction.html" TARGET="Main">
          Introduction</A></TH>
      <TH><A HREF="Potential.html" TARGET="Main">
          Potential</A></TH>
      <TH><A HREF="Investing.html" TARGET="Main">
          Investing</A></TH>
      <TH><A HREF="References.html" TARGET="Main">
          References</A></TH></TR>
</TABLE>
</BODY>
</ HTML>
```

**HTML Frames** 

# Targeting Example, Results



#### **Predefined Frame Names**

#### \_blank

Load document into a new browser window

#### \_top

- Causes the linked document to take up the whole browser window
- Document will not be contained in a frame cell

#### \_parent

- Places document in the *immediate* FRAMESET parent
- Same as \_top if no nested frames

#### self

- Place document in current cell
- Only necessary to override a BASE entry

### Summary

- Frames require a Frameset DOCTYPE for validation
- A FRAMESET can be divided either into columns or rows
  - To create both rows and columns use nested **FRAMESETS**
- By giving a FRAME a name, documents can be targeted to the named frame cell
  - <FRAME ... NAME="...">
  - <A HREF="..." TARGET="...">
- There are four predefined frame names
  - blank, top, parent, and self





# Questions?