

Image Use and Manipulation with PeopleTools

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About Me

- Independent Consultant
- Northern VA, DC Area
- Tech since 1996
- PeopleSoft (PSG), Hunter, Renaissance
- Employee: 7679

PeopleSoft Customer Education - Use - Training Certificate - TECH

Start File Edit Use View Help

Class Participant: Randall Groncki

PEOPLE Soft

Course

<input type="checkbox"/> PeopleTools Overview	<input type="checkbox"/> PeopleCode	<input type="checkbox"/> Query/Crystal Made Easy
<input checked="" type="checkbox"/> PeopleTools I	<input type="checkbox"/> PeopleSoft Workflow	<input type="checkbox"/> Query/Crystal Power Reporting
<input type="checkbox"/> PeopleTools II	<input type="checkbox"/> Security Administration	<input type="checkbox"/> SQL/SQR for PeopleSoft
	<input type="checkbox"/> Upgrade/Data Management	

Approved By: 72 VP, Education Services ☒ Passed

Instructor: Michelle Rookoff Effective Date: Aug 23, 1996

Certificate Technical Update/Display

Safe Harbor?

This is not a comprehensive session of all things images

- One hour is not enough to cover all of PeopleSoft Image knowledge
- This is a collection of some things that I've learned so far
- I'm still learning and discovering



Agenda

- Why I had to start working with images
- Why images are different
- Image Types
- Using Images in the UI
- Image Manipulation with PeopleTools

All source code used in demonstration is available in a 8.56 PeopleTools Project file on GronkWare.com

Why I had to start working with images

“... just do it like on Amazon and eBay”

Excess Property Module

- Enable the users to upload images of excess assets
- Display the images for these in an online catalog
- Create a report which include these images (BI Pub)
- Send the images to GSA in an integration (Web Services)



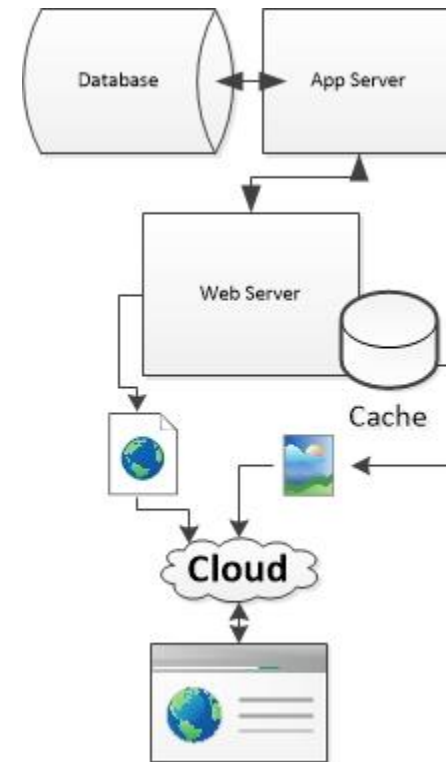
Why Images are Different

HTML Doc to Browser:

“... go get it yourself”

Architectural Implications - Simple

- The html doc:
 - Text content comes in the doc
 - URLs to images, not the images themselves
- Image stored on the Web Server Cache directory
 - CSS
 - JavaScript
 - Etc...



Architectural Implications – Complex

- Load balancers connect the browser to any number of Web Servers
- Which webserver cache has THIS object?
- Don't predict which servers a user will be connected

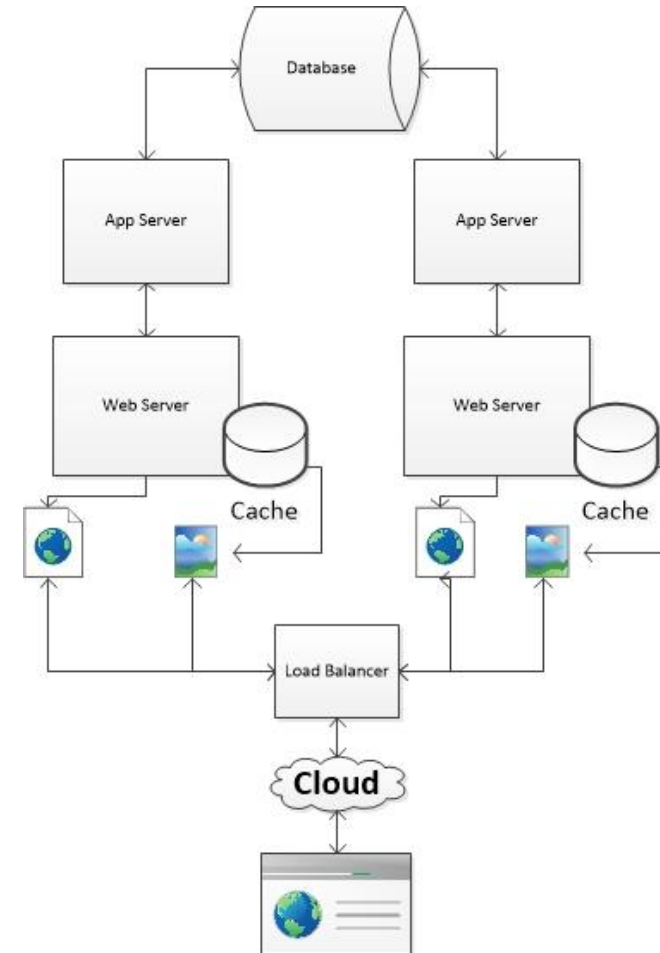


Image Types

Sometimes you give...
...Sometimes you take

Two major image types

- Design time images
- User uploaded images

Design time images

- Images uploaded through the App Designer
- Used in Fixed Image Objects, buttons
- Consistent images used for UI design – Not dynamic images
- Stored in the PSCONTDEFN table
- Multiple different image formats allowed
 - JPG
 - PNG
 - SVG

User Uploaded images

- Dynamic images not available at design time
- Examples
 - Employee photos
 - Asset Photos
- Easier to think more like a user attachment than a design time image
- Stored in database tables using image type fields and psimageversion field
- Psimageversion required for the image

Using Images in the UI

Two roads diverged in a yellow wood...
... and yeah, we have to take both.

Design time images

- Static Image demonstration
- Dynamically choosing your image using an HTML field and the `%image()` construct
 - Use any preloaded image uploaded through the App Designer
 - Apply CSS to the image to more directly control it
- Use the image in a button
 - Small buttons (16x16 pixels)
 - Large buttons (32x32 pixels or larger)
- `GetImageExtents()`
 - Returns array of numbers:
 - element 1 = image height
 - element 2 = image width.

User Uploaded images

- Discuss table structure needed to store an image
- Work with images at level 0 in the buffer
- Avoid work records with fields that span multiple buffer levels
- Upload image into the structure from level 0 work rec
- Tools
 - Resize
 - Crop
 - Move

Image Manipulation with PeopleTools

Time to get your groove on...

Copy User Uploaded Image to file

- Use the attachment functions to move the image to disk
- Demonstration

Get image Properties

- Use PeopleCode's Java API to return image properties
- Demonstration

Resize the image

- Use the `ResizeImage()` function to change the image
- Demonstration

Crop the image

- Use the `CropImage()` function to crop the image
- Dynamic Crop (any aspect the user wants)
- Fixed Crop (enforced image aspect)
- Demonstration

Convert Image Type

- Use PeopleCode's Java API to convert image to different type
- Demonstration

Use image in BI Publisher

- Copy image to file using attachment functionality
- Use the file object's `GetBase64StringFromBinary()` function to encode it for your XML File based data source
- Use BI Publisher's foreign object construct to display the image on the report
- Use the BI Publisher's Conditional Area functionality to show/hide depending on if an image is available in the data
- Demonstration

I need what kind of Image for Tiles?

SVG-Wiz... How do I make that happen?

SVG Images

- Scalable Vector Graphics
- Not available through MS Paint
 - Adobe Illustrator
 - Microsoft Visio
- Convert JPG, PNGs to SVG available on the web
 - <https://www.aconvert.com/image/png-to-svg/>

Questions?

Please complete a session evaluation

Session ID: 101150

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PeopleSoft

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