

THE PROJECT

- What to do if you are bored?
 - Stay in the office & browse the internet
 - Or 3 days in one of the best location in Switzerland



The solution



THE BUDGET

- 1'000 Euro budget for HW & travel

THE RESULT

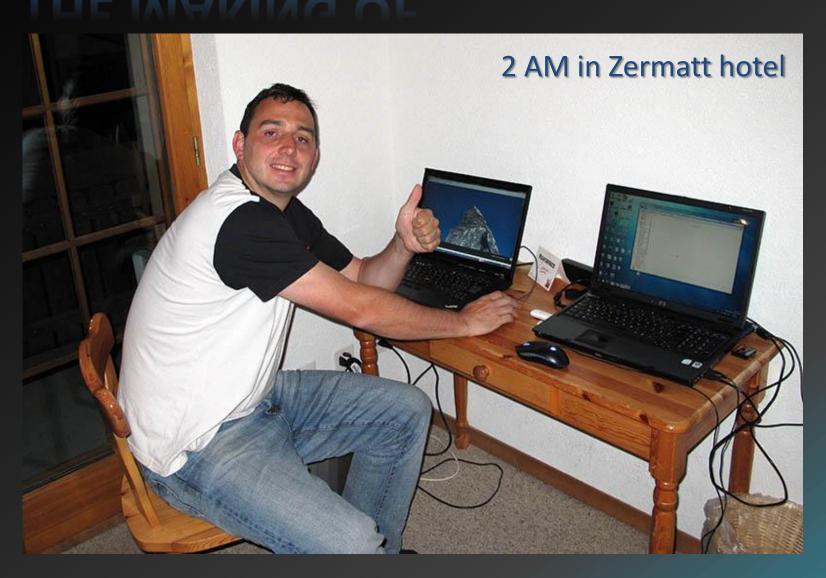
- Will be published
 - as a top story on MSN Switzerland this week
 - on MySwitzerland.com and Zermatt.com
- Multiple touch kiosks around Switzerland



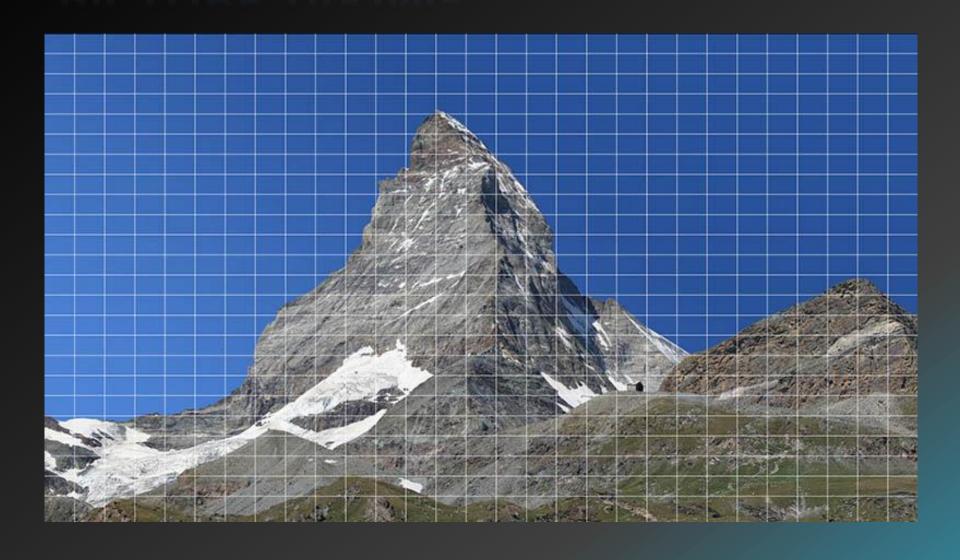
SOME DATA

- 60 GB of photos
- Largest photo:
 - 440 photos x 21 Megapixel
 - Total unstitched resolution: 9.240 Gigapixel
 - Final resolution: 55'569 x 30'064, 1.67 Gigapixel
 - Compressed Tiff: 4.7 GB
- ❖ > 40 hours of CPU processing for 8 photos

THE MAKING OF



PICTURE TAKING



EQUIPMENT

- Canon 5D MkII (21 Mpix)
- Canon 1D Mk III
- Canon 400mm DO F4 IS
- Canon 24-105mm F4 IS
- Canon 16-35mm F2.8
- 1.4 Teleconverter
- RRS Ball Head
- Carbon Fiber Tripod
- AutoMate Pano Robot
- Windows Mobile Phone
- Lenovo W500 Notebook



Pictures taking



SILVERLIGHT DEEP ZOOM

- Provides seamless Viewing & Zooming of huge Images
- Loads only the data necessary to show the part of an image the user is viewing
- When the image is displayed on the client the lowest resolution tiles are shown first
- Then as the higher quality tiles are downloaded, they are smoothly blended in



DEEP ZOOM

- Deep Zoom tool breaks image into 256 x 256 tiles
- Then generates pyramids of tiles at lower resolutions
- Exposed through MultiScaleImage Control



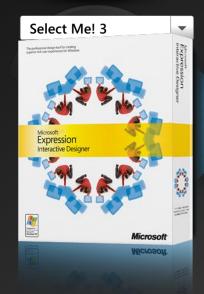


XAML & DESIGNER-DEVELOPER PRODUCTIVITY

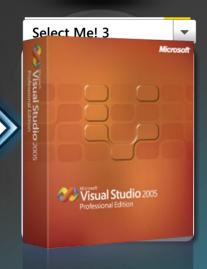


With XAML designers & developers can streamline their collaboration









Deepzoom

DEMO In the second of the sec

UI Creation

UI CUSTOMIZATION

- Customize the look of an application without changing it's behavior
 - Styling (Styles)
 Small Visual Changes (Font, Background Color, etc.)



Skinning (Control Templates)
 Replacing Element's entire Visual



Styles & Templates



NEW SILVERLIGHT 3 FEATURES

- On Windows 7
 - Multi-touch
- HW Acceleration, 720p & 1080p HD video playback
- Out of Browser Experience

Multitouch, OOB, HW acceleration

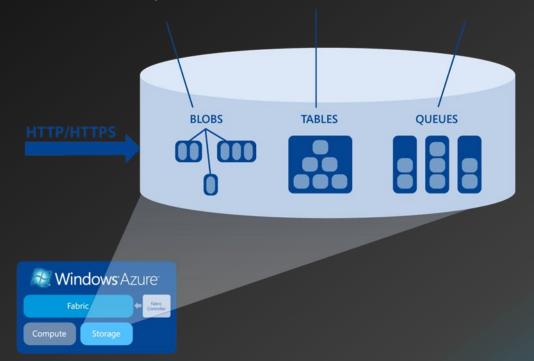


STORAGE IN WINDOWS AZURE

SCALABLE, DURABLE STORAGE

Blobs: large, unstructured data (audio, video, etc) **Tables:** simply structured data, accessed using ADO.NET Data Services

Queues: serially accessed messages or requests, allowing web-roles and worker-roles to interact



WINDOWS AZURE PRICING METERS

COMPUTE

- ▶ Virtual Machine instances
- ▶ Load balancers, routers, etc.
- Automated service management

PRICE

>\$0.12 / hour

STORAGE

- ▶ Blob Storage
- ▶ Table Storage
- ► Multiple replicas

PRICE

- ▶ \$0.15 / GB stored / month
- ➤ Storage transactions: \$0.01 / 10k

BANDWIDTH

▶Ingress/Egress (to/from internet only)

PRICE

► Bandwidth: \$0.10 IN; \$0.15 OUT; / GB

TOOLS USED

- Microsoft Research ICE
- Microsoft Research Hdmake PS plug-in
- Microsoft Expression Studio 3
 - Blend
 - Design
- Microsoft Visual Studio 2008
- Adobe Photoshop CS4 64bit
- Windows 7 64bit
- Microsoft Silverlight 3

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