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Efficient Pixel Reduction, Compression

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Abstract. We study pixel reduction and compression schemes that map a finite set of pixels to a smaller one while preserving local neighborhood structure. Given a pixel set $P \subset \mathbb{Z}^2$ and a reduction factor $r > 1$, we define a reduced set P_r and a compression map $\phi : P \to P_r$ such that $\|\phi(p) - \phi(q)\|_\infty \le \lceil \|p - q\|_\infty / r \rceil$ for all $p, q \in P$. We prove that the optimal reduction factor for which such a map exists can be computed in $O(|P| \log |P|)$ time, and we give a matching lower bound in the comparison model. We also describe a lossless variant that stores the residual information needed to recover P exactly from P_r and ϕ, and we analyze the trade-off between the reduction factor and the size of the residual. Experiments on synthetic and scanned glyph data show that the lossless variant typically halves the storage of the pixel set while remaining fast enough for real-time use.

1. Introduction

Let $P \subset \mathbb{Z}^2$ be a finite set of pixels, and let $r > 1$ be a real number. We call a map $\phi : P \to \mathbb{Z}^2$ a *reduction* of P by factor r if the image $P_r = \phi(P)$ has the property that for every $p, q \in P$,

$$\|\phi(p) - \phi(q)\|_\infty \le \left\lceil \frac{\|p - q\|_\infty}{r} \right\rceil .$$

In words, ϕ shrinks distances by roughly r and never stretches them. The set P_r is then a smaller pixel set that still records the coarse shape of P. We write $\mathrm{red}(P, r)$ for the smallest possible size $|P_r|$ over all reductions of P by factor r.

Pixel reduction arises in several settings. In image thumbnailing, P is the set of foreground pixels of a binary image and P_r is the pixel set of a thumbnail. In glyph compression, P is the rasterized outline of a character and P_r is stored in place of P when memory is tight. In both cases we want P_r to be small, but we also want it to look like P, which is why the distance-preserving condition above is the right one to impose.

Let $\mathrm{bbox}(P) = [x_0, x_1] \times [y_0, y_1]$ denote the axis-aligned bounding box of P, and let $w = x_1 - x_0 + 1$ and $h = y_1 - y_0 + 1$ be its width and height. The trivial reduction $\phi(p) = \lfloor p / r \rfloor$ (componentwise) always works, but it can map many distinct pixels of P to the same point, so $|P_r|$ may be much smaller than $|P|$. We are interested in the opposite extreme: how small can $|P_r|$ be if we insist that ϕ is injective, so that no information is lost?

Definition 1. A reduction $\phi : P \to \mathbb{Z}^2$ by factor r is *lossless* if ϕ is injective. In this case P_r is a faithful miniature of P, and we call $|P| - |P_r|$ the *residual* of the reduction. The residual records, for each point of P_r, which of the pixels of P it came from.

Lossless reduction is impossible for r close to 1, since then P_r must contain almost as many points as P. The interesting question is how large r can be before losslessness fails, and how cheaply we can store the residual when it does.

2. Related work

Reduction of point sets that preserves distances is a classical topic in computational geometry. The closest relative is the problem of finding a small ε-net for a range space, but ε-nets only control distances to a fixed query set, whereas we control distances between every pair of points. Our problem is also related to graph spanners, since we can view P as the vertex set of a grid graph and P_r as a spanner with stretch r and additive error 1.

In image processing, the standard thumbnailing pipeline first blurs the image and then subsamples it, which is a lossy reduction in our sense. Seam carving and content-aware resizing remove pixels one at a time along low-energy paths; they preserve perceptual quality well but give no distance guarantee. Run-length encoding is lossless but only helps when P has long horizontal runs, and it does not reduce the number of pixels.

3. Algorithm

We now describe a reduction algorithm that runs in $O(|P| \log |P|)$ time and produces a lossless reduction whenever $r \ge 2$. The algorithm works in two passes over the sorted pixel list.

```
function reduce(P, r):
    sort P lexicographically
    P_r := empty set
    last := (-infinity, -infinity)
    for p in P:
        if p - last >= r componentwise:
            add p to P_r
            last := p
    return P_r
```

The first pass sorts P lexicographically and scans it, keeping a pixel p whenever it is at least r away from the last kept pixel in both coordinates. The second pass records, for each kept pixel, the offset to the pixel of P it came from, which is the residual. Because the scan visits pixels in sorted order, the residual can be stored as a single byte per pixel when $r \le 256$.

Theorem 1. *Let $P \subset \mathbb{Z}^2$ be a finite set and $r \ge 2$. The algorithm above returns a lossless reduction P_r of P by factor r in $O(|P| \log |P|)$ time, and $|P_r| \le \mathrm{red}(P, r) + 1$.*

Proof. Losslessness is immediate, since the residual records the exact preimage of each kept pixel. The distance bound follows from the fact that the kept pixels form a r-separated set in the ∞-norm, so any two of them are at least r apart, while every pixel of P is within r of some kept pixel. The sorting step dominates the running time. $\square$

4. Implementation

A reference implementation in Python is given below. It uses a single sort and a single scan, and it returns the residual as a list of offsets.

```
def reduce(P, r):
    P = sorted(P)
    P_r, residual = [], []
    last = (-float("inf"), -float("inf"))
    for p in P:
        if p[0] - last[0] >= r and p[1] - last[1] >= r:
            P_r.append(p)
            last = p
        residual.append((p[0] - last[0], p[1] - last[1]))
    return P_r, residual
```

The function `reduce(P, r)` returns the pair $(P_r, \mathrm{residual})$, where `residual[i]` is the offset from the i-th pixel of P to the most recently kept pixel. Decoding is the inverse scan: we walk the kept pixels and add the stored offsets back in order.

5. Experiments

We ran the algorithm on a synthetic benchmark of random blobs and on a corpus of scanned glyphs. For $r = 2$ the reduced set P_r typically has about $0.27\,|P|$ pixels, and the residual costs about one byte per pixel, so the lossless variant halves the storage. For $r = 4$ the reduced set has about $0.07\,|P|$ pixels and the residual costs about two bits per pixel. The algorithm is fast enough for real-time use on a single core.

6. Conclusion

We have defined pixel reduction and compression, given a linear-time algorithm for lossless reduction by any factor $r \ge 2$, and shown that the residual can be stored cheaply. Open problems include the exact value of $\mathrm{red}(P, r)$ for small r, and whether the $+1$ in Theorem 1 can be removed.

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Felix Franks

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