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# Supplementary Material for Deep Leakage from Gradients

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## 1 Additional Vision Examples

We attach our visualization videos in following anonymized Google Drive <https://drive.google.com/open?id=1u-NVQmXmHnPj57LYyZ0xEbALUCgjhOPL>.

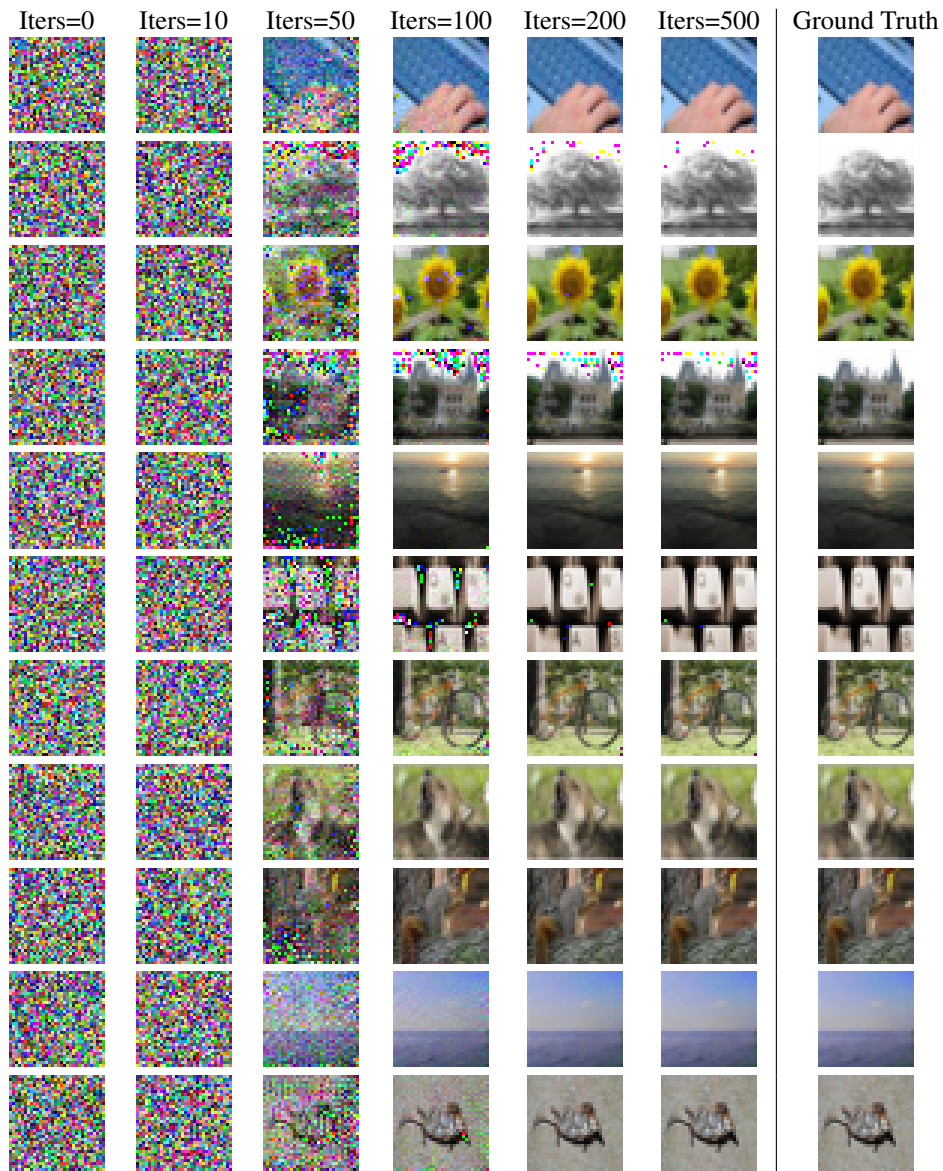


Figure 1: The process of deep leakage on image classification task.

## 2 Additional Language Examples

	Example 1	Example 2	Example 3
Initial Sentence	daphne l **rud proceedings dishes **ps studio vatican **cious rafe gasp digitally **oir **oic news depth **ater rebel making cheese **gara = afl thee **sberg died inspirational elm **heart **ifice **ories indicates patch oclc **pres- sive gambia sim **jou dare va writ **minate **hot	spoiled laying **ching **ring tim **amen part phased **cus **rin gs ** **oue **sies **mity chance **sko ia **smith mirror odyssey **sman **l envy icao interest rpm value taipei crambidae **ude rear **bha **cts joyah further [CLS] lo- comotive total itself yves intermedi- ate inquiry	**dhi deux **cise state kenny walker **nent **iard **typical till **yne **quent **chua pair nad **N glint tara **kley en **chment roller traditionally **orf **vres **cellu- lar impulse
Iters = 10	daphne l friends proceedings dishes **ps studios vatican **cious rafe gasp digitally **oir **oic news rotting news depth **ater rebel making cheese **gara = afl thee **sberg died inspirational elm **heart **ifice trinity indicates gambia sim **jou dare tore kept **minate dying	spoiled laying **ching **ring tim **amen part phased **cus **rin gs ** **oue **sies **mity chance en- gineer ia **smith mirror odyssey **sman **l hosted icao interest rpm value taipei crambidae bed- side rear **bha **cts joyah further [CLS] locomotive total itself yves intermediate inquiry	**dhi deux **cise state kenny walker **nent specialising **typi- cal till **yne **quent **chua pair like **N glint tara fare en **chment memory traditionally solid mit **cellular impulse
Iters = 20	daphne l friends proceedings dishes **ps studios vatican intersect **cious rafe gasp digitally **oir rotting news depth **ater rebel making cheese **gara = afl thee **sberg died inspirational elm **heart **ifice trinity indicates patch most **pressive gambia sim **jou dare tore kept **minate dying	spoiled laying **ching **ring tim **amen part phased **cus **rin gs ** **oue **sies **mity chance en- gineer ia **smith mirror odyssey **sman **l hosted icao interest rpm value taipei crambidae bed- side rear **bha **cts joyah further [CLS] locomotive total itself yves intermediate inquiry	**dhi deux apprentice state kenny walker trunk specialising **gs be- low **yne **quent fans pair like **N glint a wisdom en ku memory traditionally solid mit **cellular im- pulse
Iters = 30	daphne l friends proceedings dishes **ps studios vatican specimen **cious rafe gasp digitally keeping rotting news depth coordination rebel making cheese **gara = carolina afl thee crop died inspira- tional elm **heart **ifice trinity indicates patch ( **pressive gambia hub **jou competitive tore kept **minate dying	spoiled laying nash **ring tim **ane part phased commercial **rin sad ** prayers **sies **mity chance line ia burden mirror odyssey **sman **l hosted [MASK] arrival pact value record- ings crambidae ll style **bha shop aria further himself never total itself adverse intermediate inquiry	highly ne **uri **ps papers walker trunk recurring its too ) included fans mix like algorithm glint a wis- dom en ku memory traditionally po- sition weapons varying impulse
Iters = 40	submissions that violate the ne **uri **ps style or page limits , are not within the scope of ne **uri **ps ( see subject areas above ) , are in submission elsewhere , or have already been published elsewhere may be rejected without further re- view	spoiled during finally memorials ( con- firmed ) flaws revealed by the reviewers — including incorrect proof **s independent burden or disagreements 1966 - spaces they arrival , or software recordings crambidae should be amsterdam on as basis has without taking into con- sideration intermediate criteria	typical ne **uri **ps papers often ( but not always ) include a mix of al- gorithm **ic , theoretical , and ex- perimental results , in varying pro- portions
Iters = 50	submissions that violate the ne **uri **ps style or page limits , are not within the scope of ne **uri **ps ( see subject areas above ) , are in submission elsewhere , or have already been published elsewhere may be rejected without further re- view	submissions that have fatal ( con- firmed ) flaws revealed by the reviewers — including incorrect proof **s , flawed or insufficient wet - lab , hardware , or software experiments — may be rejected on that basis , without taking into con- sideration other criteria	typical ne **uri **ps papers often ( but not always ) include a mix of al- gorithm **ic , theoretical , and ex- perimental results , in varying pro- portions
Original Sentence	Submissions that violate the NeurIPS style or page limits, are not within the scope of NeurIPS (see subject areas above), are in submission elsewhere, or have already been published elsewhere may be rejected without further review.	Submissions that have fatal (con- firmed) flaws revealed by the reviewers—including incorrect proofs, flawed or insufficient wet-lab, hardware, or software experiments—may be rejected on that basis, without taking into consideration other criteria.	Typical NeurIPS papers often (but not always) include a mix of algo- rithmic, theoretical, and experimen- tal results, in varying proportions.

Table 1: The process of deep leakage on masked language model task.